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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

BIENNIAL REPORT ON HYDROLOGIC DATA

SEASONS OF 1967-68 AND 1968-69

160

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OCTOBER 1, 1970

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDRAULIC AND WATER CONSERVATION DIVISIONS

REPORT TO ARTHUR E. BRUINGTON, CHIEF ENGINEER

BIENNIAL REPORT

ON

HYDROLOGIC DATA

SEASONS 1967-68 AND 1968-69

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OCTOBER 1, 1970

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDRAULIC AND WATER CONSERVATION DIVISIONS

October 1, 1970

File No. 2-40.04
Biennial Report on Hydrologic Data
Seasons 1967-68 and 1968-69

Mr. A. E. Bruington, Chief Engineer
Los Angeles County Flood Control District
2250 Alcazar Street
Los Angeles, CA 90033

Dear Mr. Bruington:

Transmitted herewith is the "Biennial Report on Hydrologic Data" for the seasons 1967-68 and 1968-69. This report includes data collected and compiled by the Hydraulic and Water Conservation Divisions of the District which are presented as follows:

1. Precipitation
2. Evaporation
3. Runoff
4. Dam Operation
5. Erosion Control
6. Groundwater and Conservation

Precipitation records include the daily records of 461 stations during the 1967-68 season and 274 during the 1968-69 season, of which 96 and 85 percent, respectively, furnished complete seasonal records.

Seasonal rainfall distribution throughout the County is shown by the following relationship to the 90-year normal indices for eight subareas of the County and for the total County area:

Area	Percent of Area	Percent of Normal Rainfall 1967-68	1968-69
Coastal Plain	14.5	87	167
San Fernando Valley	7.7	88	175
San Gabriel Valley	7.2	81	164
San Gabriel Mountains	13.6	74	229
Little and Big Rock Creeks	4.2	78	204
Santa Monica Mountains	5.8	97	202
Santa Clara River	18.7	83	191
Desert	28.3	79	124
County	100.0	82	172

Evaporation records were received each month from 27 and 23 stations, respectively, during the 1967-68 and 1968-69 seasons. Maximum seasonal evaporation of 108.60 inches occurred at Palmdale for the 1967-68 season and 106.56 inches at Fairmont in 1968-69. Minimum seasonal evaporation of 45.97 inches occurred at the Arcadia Arboretum in the 1967-68 season and 45.94 inches at the South Coast Botanic Gardens in 1968-69.

Runoff records included in this report consist of the compilation of data from forty gaging stations operated by the District and seven belonging to other agencies. A written description outlines pertinent details of location, physical characteristics, and history of each location. A summary of discharge for each of the two seasons gives mean daily discharge and monthly and annual totals. Typical stations were chosen for presentation of graphs of flow during the storms of 1969.

Examination of the runoff records indicates that the 1967-68 water year produced above-average discharge in the urban areas though precipitation was below normal. The mountain streams reflected the same deficiency as the rainfall experienced. In contrast, the 1968-69 seasonal runoff far exceeded the totals previously experienced. Peak flows in the valleys equalled or exceeded record amounts. Peaks in the mountains, while higher than most of those recorded, did not approach the March 1938 flood. Over 1.2 million acre-feet of water was wasted to the ocean through seven measured streams. This was over twice that of 1941, the previous maximum.

Dam operation data included in this report show daily reservoir water surface elevation, storage, and amount of inflow and outflow for 15 reservoirs operated by the District. Fourteen dams control 410 square miles of mountain drainage with a total controlled storage of 74,269 acre-feet at spillway lip elevation. Hamilton Bowl Reservoir in Long Beach controls an additional 160 acre-feet.

A tabulation giving pertinent data for the season for 69 debris basins owned and operated by the District and 1 by the Corps of Engineers is included in this report.

Reclamation and enlargement of storage capacity in District reservoirs and debris basins during these seasons, obtained by excavation operations, amounted to 9,813,400 cubic yards.

A total of 919,846 acre-feet of local, imported, and reclaimed water was replenished to the groundwater from spreading facilities, injection facilities, reservoirs, and unlined channels during the 1967-69 biennial period. This consisted of 637,623 acre-feet of local water, 239,943 acre-feet of imported water, and 32,160 acre-feet of reclaimed water.

During the 1967-68 water year, the water levels in most groundwater basins became lower due to rainfall's being about 20 percent below normal. Above-normal rainfall during the 1968-69 water year (172 percent of the County-wide average) reversed the trend and groundwater in nearly all areas of the County rose during the year, resulting in the development of some rising water conditions and spring flows which had

not been experienced in many years. A rise in groundwater levels in the Main Basin of the San Gabriel Valley reflected a net increase in groundwater storage between November 1968 and June 1969 of approximately 170,000 acre-feet, of which nearly 25 percent was gained during the months of May and June of 1969. In the Santa Clara River Valley northwest of Saugus, groundwater levels rose from 28 to 40 feet with only slight lowering during the balance of the 1968-69 water year. Further east, between Solemint and Honby, groundwater levels in wells near the Santa Clara River rose approximately 100 feet. Although not spectacular, a net rise in groundwater levels occurred in the San Fernando Valley during the biennial report period.

Groundwater levels in the Coastal Plain continued to remain stable in most of the area due to management of the groundwater supplies. Groundwater extractions are controlled and imported and reclaimed water is spread as necessary to supplement the local water supply.

The West Coast Basin Barrier Project, now essentially complete, extends over approximately a nine-mile reach of coastline along Santa Monica Bay. The barrier operations for protection of the groundwater basin from the intrusion of seawater required the injection of 76,000 acre-feet during the period of this report.

The Alamitos Barrier Project continues to prevent seawater intrusion into the Central Basin east of the City of Long Beach. The project has been expanded to a total of eighteen injection wells along a reach of approximately two miles and four extraction wells located seaward of the barrier alignment. The annual injection during the report period was slightly more than 5,000 acre-feet. Construction of this project was financed by the Los Angeles County Flood Control District and the Orange County Water District. The injection water used is purchased by the Central and West Basin Water Replenishment District and the Orange County Water District.

Construction of facilities for the Dominguez Gap Barrier Project continued during the report period. Injection operations are anticipated to begin late in 1970.

Respectfully submitted,

James H. Brown
Division Engineer, Hydraulic

Tom H. Stauffer
Division Engineer, Water Conservation

Recommended

Omer D. Hall
Assistant Chief Deputy Engineer

RESPONSIBILITY

The office and field work contributing to the data presented in this report were performed under the direction of James H. Brown, Division Engineer, Hydraulic, and Tom H. Stauffer, Division Engineer, Water Conservation.

Mr. Brown was assisted by Kermit D. Matthews. Mr. Stauffer's assistants were Clinton Milne until September 1968 and Harold A. Vance thereafter.

The work was done under the supervision of the following Section Heads:

Hydraulic –

Operations Section	– Richard A. Lindsay through June 1968 – Douglas M. Ross through June 1969 – Larry D. Simpson
Erosion Control Section	– Joseph Holleron through September 1968 – Larry D. Simpson through June 1969 – William R. Barr

Assistants:

Precipitation and Evaporation	– Paul A. Haig through March 1969 – Ronald L. Brook
Runoff Records	– Stanley E. Blakely
Erosion Control	– Robert R. Smith
Reservoir Records	– Flint E. Stunden

The collection and compilation of data within the several hydrographic districts were the responsibility of the following Hydrographer II's:

1	E. K. De Vore	4	M. L. Sjostedt
2	R. J. Sarasua	4A	A. J. Falcone
2A	J. P. Roy	5	R. A. Petersen
3	R. V. Wood	6	B. J. McBride
3A	R. L. Brook and J. A. Singer	7 & 8	J. R. Hyde
		9 & 10	D. W. Bowman

Water Conservation –

Well Records and Spreading	– C. J. Reinhard
Development	– R. A. Ostrom
Barrier Operations	– C. C. Evans
Geology and Water Quality	– E. J. Zielbauer
Planning	– C. J. Thomas

The groundwater contour maps and well hydrographs were prepared by D. P. Cozakos, A. P. Kasimoff, C. J. Reagan, W. L. Wong, and W. B. Young, under the direction of C. C. Green. The spreading data was presented by A. A. Ingram assisted by B. A. Mills and P. M. Wood.

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F274B-R	DALTON WASH	at Merced Avenue	63
U14-R	BIG DALTON CREEK	above Mouth of Canyon	64
F111C-R	BIG TUJUNGA CREEK	below Mill Creek	66
F213-R	BIG TUJUNGA CREEK	above Gold Canyon	68
F108-R	CASTAIC CREEK	at Highway 126	69
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F354-R	COYOTE CREEK	below Spring Street	73
F378-R	DOMINGUEZ CHANNEL	at Vermont Avenue	75
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L1-R	LITTLE ROCK CREEK	above Little Rock Dam	79
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F57C-R	LOS ANGELES RIVER	above Arroyo Seco	82
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PRECIPITATION

PRECIPITATION

FOREWORD

This report contains basic precipitation data collected by the District for the seasons 1967-68 and 1968-69. The District's "Season" begins October 1 of each year and ends September 30 of the following year. It is the 40th and 41st of similar seasonal reports. The District maintains other climatological data such as snowfall, temperature, barometric pressure, humidity, and wind direction and velocity.

Precipitation data are used in operation of District dams, debris basins, channel diversions, spreading grounds, and pumping plants, and are utilized in determining rainfall frequency, intensity-duration relationships, rainfall mass curves, and in calculations relating to flood flows for design purposes. Precipitation data are also used as a factor with runoff in determining watershed yield and water conservation studies and are used by many public and private agencies for flood control, irrigation, water supply and related purposes.

The daily and monthly rainfall data shown herein are based on the standard gage readings. At stations equipped with both standard and recording rain gages, the standard gage amounts are proportioned to the chart amounts at the designated time of reading. Storm total amounts caught by storage-type gages are proportioned to nearby stations for daily and monthly figures. Generally, the District uses a 5 p.m. time of reading, but recognizes other times of readings at stations where the observer is not available at 5 p.m. Daylight Saving Time was observed for the periods October 1 through 29, 1967; April 28, 1968, through October 27, 1969; and April 29, 1969, through September 30, 1969. Pacific Standard Time was used for the balance of the period. Times of readings during Daylight Saving Time are not adjusted to Pacific Standard Time.

The District furnishes precipitation and other weather data to many agencies and individuals on request. Precipitation data furnished to the District by various agencies and individuals constitute a large share of the records received and compiled for the period of this report.

SUMMARY OF THE 1967-68 SEASON

Seasonal precipitation was below normal with an average of 12.82 inches, which was 82 percent of the 90-year seasonal normal for various representative stations throughout the County.

Record rainfall amounts were observed during the November 19 through 21, 1967, storm. Heavily subjected areas were the Los Angeles Civic Center, Beverly Hills, and Altadena areas in the early morning of the 19th; the Long Beach area just before midnite on the 20th; and the Baldwin Hills area during the evening of the 21st. At many stations in these areas, previously recorded amounts of maximum rainfall for various periods were exceeded by this storm. At Station No. 716, Los Angeles-Ducommun Street, near the Civic Center, monthly rainfall total of 8.64 inches was exceeded only by November 1965, during 95 years of station records. At most stations the November rainfall totals comprised more than 50 percent of the seasonal total. The isohyetal map, (Map I) shows rainfall distribution during the November storm.

The 1967-68 seasonal isohyetal map (Map II) indicates the rainfall distribution of the season; the 1967-68 isopercental map (Map III) shows annual total rainfall related to the 90-year average.

SUMMARY OF THE 1968-69 SEASON

The seasonal rainfall for the County was 40 percent of the accumulated seasonal normal on December 31, 1968. This dry spell was followed by a two-phase major storm period that began on January 18 and lasted until the 26th.

During the first phase of the storm, January 18 through 22, rainfall was general over the entire District and total rainfall varied from 4.65 inches at Station No. 566, Long Beach, to 21.01 inches at Station No. 57B-E, Camp Hi Hill (Opid's), in the San Gabriel Mountains. After a brief clearing, the second phase began on January 23 and the rainfall was also quite generally distributed throughout the District with a steady, moderate to heavy intensity occurring throughout the County on January 25. The rainfall total for the storm period was 9.68 inches at Station No. 566, Long Beach, and a total of 45.17 inches at Station No. 57B-E, Camp Hi Hill (Opid's).

As a result of the heavy January rainfall, the seasonal total for the County was 186 percent of the accumulated seasonal normal to January 31, 1969.

During the second phase of the January storm, generally high intensities occurred on January 25 in the San Gabriel Mountains areas. Station No. 425B-E, San Gabriel Dam, recorded one-hour and two-hour-duration intensities of 1.54 inches and 2.49 inches, respectively, as compared to previous maximums of 1.25 inches and 2.34 inches which occurred in January 1943.

The recurrence interval for the entire storm total of 45.17 inches at Station No. 57B-E, Camp Hi Hill (Opid's), was 75+ years. The storm total at Station No. 716, Los Angeles-Ducommun Street, was 13.31 inches, and the recurrence interval was greater than 150 years. The frequency studies for these stations include data for a period of 43 years for Station No. 57B-E, Camp Hi Hill (Opid's), and 72 years for Station No. 716, Los Angeles-Ducommun Street.

Map IV is an isohyetal indicating the 24-hour rainfall for January 25, 1969.

The second major storm moved into the Los Angeles area on February 23 and lasted through the 25th. The rainfall totals for this storm ranged from 3 to 5 inches in the Los Angeles Basin to more than 20 inches in the San Gabriel River West Fork watershed. The maximum rainfall amounts for various durations which occurred during this storm were exceeded by previous maximums of record at all stations.

Map V is isopercental and presents the rainfall amounts during the January storms as related to the 90-year seasonal normal.

These two storms contributed approximately 80 percent of the County's 1968-69 season rainfall total. The seasonal precipitation was above normal with a County average of 29.05 inches, which was 172 percent of the 90-year normal for various representative stations throughout the County. This seasonal average has been exceeded only four times since 1872.

The 1968-69 seasonal isohyetal map (Map VI) indicates rainfall distribution; for more specific data refer to Table XIII. The 1968-69 isopercental map (Map VII) presents the relationship of the season total to the 90-year seasonal normal.

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

TABLE I

NUMBER AND TYPES OF RAIN GAGES

The following listing shows, under ownership, the type and number of rain gages:

	1967-68	1968-69
I. Los Angeles County Flood Control District		
A. Non-recording gages		
Standard 8-inch diameter	269	263
Special 8.81-inch diameter	24	27
Storage-type	27	28
B. Recording gages		
Weighing type	92	90
Tipping bucket	3	5
	415	413
II. Outside Agencies and Individuals		
A. Non-recording gages		
Standard 8-inch diameter	111	109
Various diameters	6	4
B. Recording gages		
Various types	67	65
	184	178
Total number of gages	599	591

TABLE II

MAXIMUM AND MINIMUM RAINFALL

The following tabulation presents the maximum and minimum amounts which occurred during the Seasons 1967-68, and 1968-69. The maximum day amounts are based on 5 p.m. standard gage readings only.

Station Number	Station Name	Minimum Seasonal 1967-68	Minimum Seasonal 1968-69	Maximum Seasonal 1967-68	Maximum Seasonal 1968-69	Maximum Day 1967-68	Maximum Day 1968-69
442C	Mescal Creek	4.81					
456	Piute Butte		6.60				
1030	Mt. Islip – Little Jimmy Springs			33.81			
1109	Mt. Baldy				117.23		
57B-E	Camp Hi Hill (Opid's)					7.86 11/19/67	15.56 1/25/69

TABLE III

COMPARATIVE RAINFALL

The following tables show the comparison of monthly rainfall amounts with the 90-year normal monthly rainfall and percentages thereof for Station No. 57B-E, Camp Hi Hill (Opid's), and Station No. 716, Los Angeles-Ducommun Street, in the mountains and valley, respectively.

Station No. 57B-E
Camp Hi Hill (Opid's)

Month	Normal Monthly Rainfall	Rainfall 1967-68	Percent of Normal Rainfall 1967-68	Rainfall 1968-69	Percent of Normal Rainfall 1968-69
October	1.54	0	0	0.75	49
November	3.25	16.37	504	1.16	36
December	7.01	2.79	40	3.18	45
January	8.61	3.19	37	48.28	561
February	9.31	2.52	27	30.58	328
March	6.13	4.32	70	1.83	30
April	2.76	1.51	55	2.55	92
May	0.79	0.08	10	0.36	46
June	0.10	T	0	T	0
July	0.06	0.05	83	0.38	633
August	0.09	0.05	55	0	0
September	0.52	0	0	0	0
Totals	40.17	30.88	77	89.07	222

Station No. 716
Los Angeles-Ducommun Street

Month	Normal Monthly Rainfall	Rainfall 1967-68	Percent of Normal Rainfall 1967-68	Rainfall 1968-69	Percent of Normal Rainfall 1968-69
October	0.54	0	0	0.55	102
November	1.21	8.64	714	0.38	31
December	2.65	1.73	65	1.29	49
January	3.31	0.92	28	15.11	456
February	3.31	0.50	15	7.91	239
March	2.49	3.30	133	1.86	75
April	1.03	0.49	48	0.66	64
May	0.33	0	0	0.02	6
June	0.06	0.01	17	0	0
July	0.01	T	0	0.03	300
August	0.03	0.12	400	0	0
September	0.18	0	0	T	0
Totals	15.15	15.71	104	27.81	184

TABLE IV

COMPARATIVE RAINFALL

The following table shows a comparison of season rainfall with the 90-year normal seasonal rainfall at selected stations with long-time records representing all areas of the County.

Sta. No.	Station Name	Subarea*	Years of Record	90-Year Normal Rainfall	Season Rainfall 1967-68	Percent of Normal Rainfall 1967-68	Season Rainfall 1968-69	Percent of Normal Rainfall 1968-69
5B	Calabasas	B	46	16.67	18.44	1.11	33.02	198
6	Topanga	F	42	22.50	20.91	93	48.99	218
15B	Van Nuys	B	44	15.07	13.46	89	28.16	187
32C-E	Newhall	G	93	17.69	14.54	82	32.09	181
33A-E	Pacoima Dam	D	54	18.72	15.91	85	31.77	170
53D	Colby's	D	72	29.75	21.70	73	66.56	224
57B-E	Camp Hi Hill (Opid's)	D	52	40.17	30.88	77	89.07	222
60A	Hoegee's	D	44	40.02	22.87	57	Inc.	Inc.
85G	Mt. Baldy Ranger Sta.	D	49	32.57	24.74	76	88.80	273
106C	Whittier	A	61	14.88	11.78	79	25.37	170
130B	Sandberg's	H	42	14.99	15.54	104	24.71	165
185	Glendora	C	89	22.12	15.87	72	39.26	177
241C	Long Beach	A	41	12.47	10.93	88	17.79	143
256C	Pomona	C	52	17.29	15.38	89	28.30	164
283C	Crystal Lake	D	38	38.04	26.02	68	76.77	194
321-E	Pine Canyon	H	42	18.20	16.66	92	41.88	230
338A	Mt. Wilson	D	65	36.08	22.43	62	81.27	225
425B-E	San Gabriel Dam	D	64	29.32	19.04	65	65.09	222
440C	Chilao	D	30	26.73	20.00	75	47.49	178
455B	Lancaster	H	46	6.91	6.04	87	7.32	106
478	Valyermo	E	58	10.65	9.65	91	19.49	183
610B	Pasadena	C	97	19.99	16.07	80	32.76	164
634C	Santa Monica	A	84	14.65	15.76	108	24.54	168
716	Los Angeles-Ducommun Street	A	97	15.15	15.71	104	27.81	184

*Refer to Table V for location of various subareas.

TABLE V

97-YEAR SEASONAL RAINFALL INDICES

FOR

SELECTED AREAS IN LOS ANGELES COUNTY

SEASON	"A" COASTAL PLAIN	"B" SAN FERNANDO VALLEY	"C" SAN GABRIEL VALLEY	"D" SAN GABRIEL MOUNTAINS	"E" LITTLE ROCK – BIG ROCK	"F" SANTA MONICA MOUNTAINS	"G" SANTA CLARA	"H" DESERT	COUNTY INDEX
1872-73	98	97	79	79	78	98	86	79	85
74	157	157	154	154	154	157	165	154	155
75	125	123	85	86	82	125	99	85	99
76	172	169	127	128	125	172	143	128	143
77	37	24	28	28	21	25	18	17	24
78	140	126	140	139	96	126	71	65	102
79	75	58	74	73	93	59	41	38	55
1879-80	128	112	128	128	133	112	125	135	127
1880-81	81	67	80	80	70	69	60	62	69
82	66	59	69	68	76	60	78	81	73
83	72	64	77	76	59	65	55	47	61
84	241	227	245	248	269	230	269	292	261
85	58	57	60	58	57	58	52	57	57
86	153	144	134	135	176	139	175	201	166
87	86	86	80	82	189	85	110	126	102
88	108	85	130	126	117	91	110	112	111
89	129	127	134	134	140	127	136	146	136
1889-90	161	206	199	205	219	177	228	237	211
1890-91	96	80	108	104	102	86	94	97	96
92	80	63	84	84	77	70	73	73	76
93	162	142	165	158	138	134	129	126	141
94	49	36	58	54	53	38	48	50	49
95	107	113	126	124	121	110	103	111	112
96	62	53	56	55	57	54	53	48	54
97	127	114	111	108	121	111	118	131	121
98	51	42	53	46	34	39	24	30	37
99	47	29	40	31	31	30	35	34	35
1899-00	64	52	56	53	56	56	49	44	52
1900-01	105	108	117	104	98	107	107	103	106
02	75	59	65	67	64	62	57	58	63
03	147	122	123	123	120	127	116	110	122
04	57	53	57	63	48	59	46	40	50
05	124	104	130	124	129	108	139	134	128
06	149	123	128	137	127	125	118	122	128
07	129	148	138	146	152	152	168	162	152
08	89	94	92	98	97	92	99	97	95
09	123	114	126	112	103	108	94	81	102
1909-10	85	77	91	88	118	78	104	106	96
1910-11	114	122	127	152	152	121	142	136	134
12	59	98	74	86	89	84	88	69	77
13	74	88	79	78	68	78	81	70	76
14	143	168	166	179	172	161	160	147	158
15	141	128	124	116	119	141	132	137	132
16	143	133	142	155	127	127	129	114	131
17	98	99	95	94	72	94	69	68	82
18	96	113	93	110	104	113	110	96	103
19	72	76	71	72	66	69	75	75	73
1919-20	77	85	92	109	99	82	93	80	88
1920-21	100	110	100	97	92	93	97	93	97
22	120	143	140	199	178	132	156	153	153
23	74	74	79	102	81	70	85	78	81
24	48	50	55	58	53	47	48	55	52
25	53	64	63	72	59	56	63	53	59
26	88	124	118	130	114	113	118	107	112
27	103	131	123	115	121	118	115	115	115
28	88	69	75	62	70	69	65	62	69
29	78	75	80	73	60	78	70	64	71
1929-30	77	79	80	79	57	73	77	81	78
1930-31	83	94	84	76	77	89	97	112	94
32	109	127	113	116	136	108	136	146	128
33	74	80	68	70	65	72	81	77	75
34	76	104	101	74	58	86	60	42	67
35	136	128	131	121	141	114	138	166	141
36	77	80	78	76	50	77	71	48	67
37	148	145	150	150	135	140	155	140	146
38	144	152	149	159	159	150	155	150	152
39	116	117	108	101	119	127	119	140	122
1939-40	98	97	83	69	77	100	74	80	83
1940-41	226	237	215	171	199	250	234	231	222
42	83	78	75	62	94	82	80	90	81
43	115	153	140	152	162	152	161	151	149
44	130	136	114	132	159	144	162	227	165
45	93	89	89	97	101	86	91	103	95
46	81	82	79	97	106	87	102	102	94
47	91	90	87	98	101	91	102	101	97
48	45	47	55	49	62	51	54	66	55
49	58	52	59	53	61	58	50	70	61
1949-50	73	69	74	61	63	78	65	52	64
1950-51	55	56	52	38	43	56	43	37	45
52	161	193	183	157	159	208	179	184	176
53	70	69	66	51	61	75	64	67	65
54	92	82	85	85	88	98	85	91	88
55	82	84	75	69	79	87	83	83	81
56	107	101	90	73	76	103	82	62	82
57	67	79	74	68	66	81	73	73	72
58	160	160	163	161	151	181	174	163	165
59	44	49	46	53	66	57	60	53	53
1959-60	59	57	57	43	48	68	48	55	55
1960-61	35	39	32	39	50	42	40	47	41
62	138	141	121	113	129	167	136	113	127
63	81	67	66	65	69	76	68	74	70
64	48	60	51	57	55	57	54	62	56
65	90	93	82	76	84	94	78	78	82
66	112	131	105	143	136	146	135	133	130
67	119	137	135	155	149	152	150	104	131
68	87	88	81	74	78	97	83	79	82
69	167	175	164	229	204	202	191	124	172
70									
90-YEAR NORMAL RAINFALL	13.78	17.03	18.52	28.19	19.24	18.50	16.39	7.89	15.66
1967-68 RAINFALL	12.04	15.07	15.00	20.92	15.06	17.94	13.68	6.22	12.82
1968-69 RAINFALL	23.00	29.76	30.36	64.69	39.31	37.37	31.28	9.79	29.05
AREA IN SQUARE MILES	573	305	285	536	165	228	738	1,122.	3,952.

NOTE: THE COUNTY INDEX IS THE WEIGHTED AVERAGE OF THE INDICES OF THE SUBAREAS.

TABLE VI

SUMMARY OF SNOWFALL

The accumulated snowfall depth in inches at three mountain stations follows:

Sta. No.	Station Name	Approx. Elev.	1967-68	1968-69	Max. of Record Depth	Max. of Record Season	Length of Records
82F	Table Mountain	7420	66.5	167.0	206	1966-67	43
83B	Big Pines	6860	82.0	148.5	231	1943-44	44
283C	Crystal Lake	5370	60.5	113.0	173	1943-44	38

The following tabulation of snow survey measurements made at twelve snow courses about April 1 each year shows the averaged depth in inches, water content, and density of the snow. Water content is the water equivalent of snow in inches. Density is the ratio of the water content to the snow depth expressed as a percentage.

Snow Course	Approx. Elev.	Average Snow Depth 1968	Average Snow Depth 1969	Average Water Content 1968	Average Water Content 1969	Density 1968	Density 1969
San Antonio Drainage Area							
Icehouse No. 4	6300	0	12.4	0	5.1	0	41.1
Manker Flat	6500	0	0	0	0	0	0
Lower Thunder Mountain	7500	5.9	46.8	2.7	24.0	45.7	51.3
Upper Thunder Mountain	8500	37.6	133.4	15.5	61.5	41.2	46.1
Big Rock Creek Drainage Area							
Blue Ridge	7200	0	29.4	0	14.8	0	50.3
Islip No. 2	7400	3.9	58.0	1.6	30.4	41.0	52.4
Islip No. 3	7600	21.8	78.3	9.3	35.6	42.6	45.5
Islip No. 4	7570	34.1	87.4	14.3	45.1	41.9	51.6
Little Rock Creek Drainage Area							
Sqw Camp	5800	0	1.2	0	0.4	0	33.3
Cedar Spring	6500	0	32.5	0	15.4	0	47.4
Buckhorn	7100	0	41.6	0	21.4	0	51.4
San Gabriel River Drainage Area							
Deer Flats	6800	0	13.9	0	6.0	0	43.2

TABLE VII

RAIN GAGE STATION LOCATION

SEASONS 1967-69

STA. NO.	TYPE GAGE	YRS. OF RECORD	ELEV. OF GAGE	NORTH LAT.	WEST LONG.	OBSERVER	LOCATION
2B	S	43	1050	34 02 55	118 46 25	STEIN PETERSEN	6130 S. LATIGO CANYON ROAD, MALIBU, SANTA MONICA MTS.
3D	S	42	875	34 06 25	118 47 31	FRED L. LEWIS	30473 MULHOLLAND HIGHWAY, AGOURA, SANTA MONICA MTS.
4C	S	56	800	34 05 09	118 45 15	GEORGE LEWIS	28995 CRAGS DRIVE, AGOURA, SANTA MONICA MTS.
5B	S	42	924	34 09 24	118 38 14	TOM FARMER	4803 EL CANON AVENUE, CALABASAS
6	SA	42	745	34 05 03	118 35 57	L.A. CO. FIRE DEPT. PERSONNEL	401 S. TOPANGA CANYON BOULEVARD, SANTA MONICA MTS.
9B	SP	41	828	34 13 52	118 28 04	GREEN ARROW NURSERY PERSONNEL	8845 SEPULVEDA BOULEVARD, SEPULVEDA
10B	SA	41	385	34 05 13	118 25 45	A. S. PORTER	701 STONE CANYON ROAD, BEL AIR HOTEL, WEST LOS ANGELES
11C	SP A	42	867	34 07 14	118 24 38	D.W.P. PERSONNEL	UPPER FRANKLIN CANYON RESERVOIR, 2300 FRANKLIN CANYON ROAD, SANTA MONICA MTS.
12	S	42	1100	34 07 45	118 24 20	L.A. CITY FIRE DEPT. PERSONNEL	12601 MULHOLLAND DRIVE, AT FRANKLIN CANYON, SANTA MONICA MTS.
13B	S	63	593	34 09 23	118 21 56	KATIE BLIX	10634 WEST BLIX STREET, NORTH HOLLYWOOD
14C	SP	42	1060	34 14 19	118 21 30	E. S. MERRILL	10459 TUXFORD STREET, SUN VALLEY, VERDUGO MTS.
15D	S	64	695	34 10 42	118 27 26	VAN NUYS GREEN SHEET PERSONNEL	14901 WEST CALIFA STREET, VAN NUYS
17	S	40	1425	34 07 51	118 29 26	L.A. CITY FIRE DEPT. PERSONNEL	16500 MULHOLLAND DRIVE, WEST OF SEPULVEDA CANYON, SANTA MONICA MTS.
20B	S	48	996	34 09 07	118 35 36	D.W.P. PERSONNEL	GIRARD RESERVOIR, 4712 SAN FELICIANO DRIVE, WOODLAND HILLS
21	S	57	991	34 10 16	118 35 56	MRS. H. BAYLY	5545 CANOGA AVENUE, WOODLAND HILLS
23B-E	SP AP	44	900	34 13 44	118 37 18	D.W.P. PERSONNEL	CHATSWORTH RESERVOIR, SAN FERNANDO VALLEY
24D	S	41	387	34 15 23	118 36 19	L. BATWAY	10202 TOPANGA CANYON BOULEVARD, CHATSWORTH
25C	SP	49	810	34 13 52	118 32 28	D.W.P. PERSONNEL	18716 RAYEN STREET, NORTHRIDGE
27D	S	44	902	34 14 57	118 26 40	GLEN C. RAIDATZ	14393 VAN NUYS BOULEVARD, PACOIMA
28S	SP	29	967	34 16 36	118 28 06	ROSS GOULD	11933 SEPULVEDA BOULEVARD, SAN FERNANDO
29D	S	42	1280	34 17 09	118 30 59	HELEN STRATHAUS	11825 HIGHWATER ROAD, GRANADA HILLS
30B	SP	50	1250	34 18 37	118 29 15	MIKE FUSANO	15145 SAN FERNANDO ROAD, SYLMAR
31	S	21	2850	34 19 28	118 34 14	W. J. WILLETT	CRUTT RANCH, SANTA SUSANA MTS. AT HEAD OF RICE CANYON
32C-E	S AP	42	1240	34 23 07	118 31 54	L.A. CO. FIRE DEPT. PERSONNEL	24875 SAN FERNANDO ROAD, NEWHALL
33A-E	SA	44	1500	34 19 48	118 23 59	EDWARD K. DARR	PACOIMA DAM, SAN GABRIEL MTS.
39B	8.81"	40	1610	34 12 16	118 17 05	L.A.C.F.C.D. PERSONNEL	SUNSET DEBRIS BASIN, VERDUGO MTS.
42C	S	43	70	33 50 43	118 25 20	F. M. ARNOLD	415 DIAMOND STREET, REDONDO BEACH
43D	S	43	216	33 47 56	118 23 29	C. FORESTER AND S. FARQUHAR	360 PALOS VERDES DRIVE WEST, PALOS VERDES ESTATES
44A	S	42	125	33 44 30	118 24 28	LIGHT SUPERVISOR, U.S.C.G.	POINT VICENTE LIGHTHOUSE, PALOS VERDES HILLS
46D-E	SA	43	2315	34 17 40	118 11 14	WILLIAM L. CROKE	BIG TUJUNGA DAM, SAN GABRIEL MTS.
47D	SA	42	3150	34 16 36	118 10 12	NEIL COHEN	CLEAR CREEK, BIG TUJUNGA CANYON, SAN GABRIEL MTS.
48B	S	42	2175	34 14 37	118 11 07	U.S.F.S. PERSONNEL	OAK WILDE-ARROYO SECO, SAN GABRIEL MTS.
50B	S	42	1135	34 11 52	118 11 05	L.A. CO. FIRE DEPT. PERSONNEL	312 WEST GEORGIAN ROAD, PASADENA
51	S	41	4010	34 18 06	117 50 20	B. J. BIERKE	FALLING SPRINGS RESORT, SAN GABRIEL CANYON, NORTH FORK, SAN GABRIEL MTS.
52D	SA	39	3300	34 15 58	118 08 57	U.S.F.S. PERSONNEL	SWITZER'S RANGER STATION, ARROYO SECO, SAN GABRIEL MTS.
53D	SA	72	3620	34 18 05	118 06 39	ROBERT L. CHANDLER	CAMP COLBY, BIG TUJUNGA CANYON, SAN GABRIEL MTS.
54C	SP A	53	4325	34 20 05	118 02 54	DORIS TRUJILLO	LOOMIS RANCH, BIG TUJUNGA CANYON, SAN GABRIEL MTS.
57B-E	SP A	52	4250	34 15 18	118 05 41	ALEXANDER MORGAN	CAMP HI HILL (DPW'S) WEST FORK, SAN GABRIEL RIVER, SAN GABRIEL MTS.
58	S	38	3275	34 13 21	118 01 52	LOUIS LUEBKERT	STURTEVANT CAMP, SANTA ANITA CANYON, SAN GABRIEL MTS.
60A	S A	44	3600	34 12 32	118 02 02	LOUIS LUEBKERT	WINTER CREEK WEST OF SANTA ANITA CANYON, SAN GABRIEL MTS.
63C-E	SA	42	1400	34 11 03	118 01 12	E. R. WINDER	SANTA ANITA DAM, SANTA ANITA CANYON, SAN GABRIEL MTS.
66	S	44	658	34 09 27	118 02 36	RICHARD LAWYER	415 ORANGE GROVE AVENUE, SIERRA MADRE
67F	4½" P	37	560	34 08 57	118 00 04	MONROVIA NEWS POST PERSONNEL	119 WEST PALM AVENUE, MONROVIA
68C	SA	43	1375	34 10 30	117 59 07	JAMES T. MC GOWAN, JR.	SAWPIT DAM, SAN GABRIEL MTS.
700 [1]	SA	44	770	34 09 46	117 54 15	JAMES R. RITTENHOUSE	8811 N. SAN GABRIEL CANYON ROAD, AZUSA
73	SA	43	1165	34 09 22	117 50 57	DR. T. G. KENNARD	20747 PALM DRIVE, MOUTH OF ENGLEWILD CANYON, GLENDORA
76B	S	32	1500	34 12 39	117 50 48	E. K. DE VORE	ABOVE SAN GABRIEL DAM, SAN GABRIEL CANYON, SAN GABRIEL MTS.
78B	SA	19	3280	34 17 25	117 50 26	S. ARNEY	COLDBROOK RANGER STATION, NORTH FORK, SAN GABRIEL CANYON
80B	ST	21	5540	34 20 20	117 41 30	L.A.C.F.C.D. PERSONNEL	PRAIRIE FORK, NORTH FORK, SAN GABRIEL CANYON
81B	ST	15	6590	34 22 26	117 45 05	L.A.C.F.C.D. PERSONNEL	ANGELES CREST HIGHWAY, AT VINCENT GAP, SAN GABRIEL MTS.
82F	S	42	7420	34 22 56	117 40 39	EARL IVIE	TABLE MOUNTAIN, NORTHEAST OF BIG PINES RECREATION PARK, SAN GABRIEL MTS.
83B	SA	44	6970	34 22 44	117 41 20	U.S.F.S. PERSONNEL	BIG PINES RECREATION PARK, ANGELES CREST HIGHWAY, SAN GABRIEL MTS.
85G	SA	19	4275	34 14 12	117 39 32	U.S.F.S. PERSONNEL	MT. BALDY GUARD STATION, SAN ANTONIO CANYON, SAN GABRIEL MTS.
87C [2]	AP	40	1480	34 10 01	117 48 02	U.S.F.S. PERSONNEL	5292 NORTH MAIN FORK, SAN DIMAS CANYON, SAN GABRIEL MTS.
89B-E	SA	45	1350	34 09 10	117 46 17	BILLY R. MC CARTY	SAN DIMAS DAM, SAN DIMAS CANYON
90	S	41	1680	34 09 00	117 45 32	HAROLD GEHRE	6025 SKYDOW ROAD, LA VERNE
91	S	40	1408	34 07 22	117 43 11	JERRY EVANS	2183 NORTH INDIAN HILL BOULEVARD, CLAREMONT
92	SA	27	1185	34 05 48	117 42 33	M. MORRILL AND K. JENSEN	POMONA COLLEGE AT BRACKETT OBSERVATORY, CLAREMONT
93B	8.81"	42	1180	34 05 45	117 42 57	CLAREMONT POLICE DEPT. PERSONNEL	215 WEST SECOND STREET, CLAREMONT
95	S	42	858	34 06 26	117 48 19	L.A. CO. FIRE DEPT. PERSONNEL	114 EAST FIRST STREET, SAN DIMAS
95C-E	SA	42	1030	34 05 31	117 49 24	GEORGE H. SHEPHERD, JR.	PUDDINGSTONE DAM, SAN JOSE HILLS
98B	S	52	615	34 07 57	117 53 36	LOUIE HIROTA	16852 EAST FOOTHILL BOULEVARD, AZUSA
101D [3]	S	44	250	34 03 54	117 57 20	MRS. L. STARBLE	1332 SOUTH BECKER AVENUE, WEST COVINA
102C	S	42	465	34 00 12	117 52 14	L.A. CO. FIRE DEPT. PERSONNEL	19711 EAST VALLEY BOULEVARD, WALNUT
106C	S	42	320	33 58 27	118 01 58	MARTHA BILEY	13230 EAST PENN STREET, WHITTIER
107C	8.81"	44	130	33 56 18	118 06 08	DOWNEY FIRE DEPT. PERSONNEL	11435 SOUTH DOWNEY AVENUE, DOWNEY
108D	SA	42	275	34 04 30	118 02 30	EL MONTE FIRE DEPT. PERSONNEL	3615 NORTH HOYT AVENUE, EL MONTE
109D	S	44	547	34 07 42	118 04 22	L.A. COUNTY FIRE DEPT. PERSONNEL	7325 NORTH ROSEMEAD BOULEVARD, SAN GABRIEL
110B	S	42	533	34 06 05	118 07 52	LE ROY MOELLER	SOUTHWEST CORNER OF GARFIELD AVENUE AND MC LEAN STREET, ALHAMBRA
111	SP	42	590	34 06 56	118 09 05	SO. PASADENA FIRE DEPT. PERSONNEL	1424 MISSION STREET, SOUTH PASADENA
115D	SA	50	135	33 57 54	118 21 15	INGLEWOOD FIRE DEPT. PERSONNEL	11 REGENT STREET, INGLEWOOD
117F	S	45	78	33 53 42	118 13 34	COMPTON FIRE DEPT. PERSONNEL	201 SOUTH ACACIA STRSET, COMPTON
118C	S	41	40	33 47 27	118 15 50	PARK PERSONNEL	401 EAST M STREET, WILMINGTON
119G	S	73	345	34 03 21	118 27 20	CHIEF L. A. HAWKINS	NATIONAL MILITARY HOME, WILSHIRE BOULEVARD AND SEPULVEDA BOULEVARD, SAWTELLE
120	S	43	3135	34 29 17	118 08 27	L.A. CO. FIRE DEPT. PERSONNEL	1533 SIERRA HIGHWAY, VINCENT
122F	S	41	3200	34 37 12	118 17 08	FRED BOLEY	8756 WEST CALVA STREET, PALMDALE
124B-E	AP	42	3050	34 35 14	118 21 45	D.W.P. PERSONNEL	NORTHWEST OF SPUNKY CANYON ROAD AND BOUQUET CANYON ROAD, ABOVE BOUQUET RESERVOIR
125B	SP	52	2105	34 35 25	118 27 15	D.W.P. PERSONNEL	POWER PLANT NO. 1, UPPER SAN FRANCISQUITO CANYON
126B	S	41	55	33 59 32	118 27 39	L.A. CO. FIRE DEPT. PERSONNEL	1930 SHELL AVENUE, VENICE
127B	SP	48	1511	34 28 55	118 31 32	EDWARD FIELDS	DRY CANYON DAM, TWO MILES ABOVE SAN FRANCISQUITO CANYON ROAD, NORTH OF SAUGUS
128B	SA	41	2075	34 36 08	118 33 40	ARTHUR L. STEWART	WARM SPRINGS CAMP, 38200 NORTH LAKE HUGHES ROAD, CASTAIC
130B	S	42	4025	34 44 37	118 42 43	CAPT. J. E. FRYER	47376 OLD RIDGE ROUTE, SANDBERG, LIEBRE MT.
134B	S	41	1215	34 07 42	117 46 42	A. L. STEVENS	1666 ALDERSGATE DRIVE, LA VERNE
135	S	43	85	33 53 52	118 04 00	C. J. HARGITT	12450 MAPLEDALE STREET, NORWALK
140C	AP	41	250	34 02 43	118 26 55	L.A. CITY PERSONNEL	1650 SOUTH PURDUE AVENUE, WEST LOS ANGELES
143B	S	41	610	34 08 03	117 54 17	ARTHUR H. BROWN	CITY HALL, 213 EAST FOOTHILL BOULEVARD, AZUSA
144	S	41	1100	34 10 34	118 02 32	C. ASKEW AND L. CINNAMON	SIERRA MADRE DAM, SIERRA MADRE CANYON, NORTH OF SIERRA MADRE
155C	S	43	3120	34 29 45	118 01 33	U.S.F.S. PERSONNEL	BELOW LITTLE ROCK DAM, 32900 CHESEBORO ROAD, PALMDALE
156	SA	46	86	33 53 13	118 00 56	STANDARD OIL CO. PERSONNEL	14756 ALONDRA BOULEVARD, LA MIRADA
157C	S AP	41	125	33 54 57	118 25 06	R. J. LANGLEY	EL SEGUNDO BOULEVARD AND CONCORD STREET, EL SEGUNDO
158	SP AP	41	2750	34 12 20	117 45 40	U.S.F.S. PERSONNEL	TANBARK FLATS, WEST FORK, SAN DIMAS CANYON, SAN GABRIEL MTS.
167C	S	41	611	34 09 31	118 02 02	ARCADIA FIRE DEPT. PERSONNEL	WEST ORANGE GROVE AVENUE, ARCADIA
169	SP	43	700	34 09 47	118 02 21	C. ASKEW AND L. CINNAMON	621 EAST SIERRA MADRE BOULEVARD, SIERRA MADRE
170F	S	43	286	34 02 32	118 04 44	S. CALVIN EDINGER	8849 LANDIS VIEW LANE, SOUTH SAN GABRIEL
172B	S	28	548	34 09 26	117 58 02	CALIFORNIA-AMERICAN WATER CO.	1101 SOUTH OAK STREET, DUARTE
174B	S	46	930	34 07 43	117 49 08	L.A. CO. FIRE DEPT. PERSONNEL	529 SOUTH AMELIA AVENUE, GLENDORA
175B	S	46	2020	34 13 39	118 12 40	LA CANADA IRRIG. DIST. PERSONNEL	ALTA CANADA ROAD AND DEL ORO DRIVE, LA CANADA
176	SP	48	1128	34 10 56	118 08 15	LAND AND WATER ASSOC. PERSONNEL	583 SACRAMENTO STREET, ALTADENA
177F	S	57	1250	34 12 14	118 11 40	J. P. AP ROBERTS	4600 ORANGE KNOLL AVENUE, LA CANADA
178C	SA	53	520	34 06 38	117 52 50	L.A.C.F.C.D. PERSONNEL	5402 BEN LOMOND AVENUE, GLENDORA
179A	SA	24	1180	34 10 25	118 03 38	L.A.C.F.C.D. PERSONNEL	BAILEY CANYON ABOVE DEBRIS BASIN, SIERRA MADRE
185	S	60	802	34 08 23	117 51 33	MRS. L. M. WEST	460 EAST BENNETT STREET, GLENDORA
191B	SA	17	400	34 03 46	118 11 54	L.A.C.F.C.D. PERSONNEL	2250 ALCAZAR STREET, LOS ANGELES
192C	8.81"	41	143	33 58 45	118 11 15	A. G. FARRIS	6320 PINE AVENUE, BELL
193D	S	66	580	34 04 57	117 52 29	W. B. TEMPLE	19248 PUENTE STREET, COVINA
196C	S	53	1050	34 06 06	117 46 20	H. D. GLICKENSTAFF	2011 THIRD STREET, LA VERNE
198C	8.81"	38	925	34 11 04	118 16 32	L.A.C.F.C.D. PERSONNEL	BRAND CANYON AT BRAND DEBRIS BASIN, GLENDALE, VERDUGO MTS.
199D	S	42	175	33 59 00	118 13 47	CHIEF E. L. HOUSINGTON	6301 SANTA FE AVENUE, HUNTINGTON PARK
200	S	41	1095	34 25 21	118 34 26	S.C.E. CO. PERSONNEL	SOUTHERN CALIFORNIA EDISON COMPANY SUBSTATION, 2.5 MILES WEST OF SAUGUS
201C	SA	43	845	33 59 40	117 59 31	C. R. WOODHURST	14767 HOLLYTREE ROAD, HACIENDA HEIGHTS

TABLE VII (Continued)

RAIN GAGE STATION LOCATION

SEASONS 1967-69

STA. NO.	TYPE GAGE	YRS. OF RECORD	ELEV. OF GAGE	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
208H	S	51	52	33 51 48	118 04 58	L.A. CO. FIRE DEPT. PERSONNEL	18541 SOUTH CORBY AVENUE, ARTESIA
210B	SA	40	1250	34 11 16	118 16 20	L.A.C.F.C.D. PERSONNEL	BRAND PARK, GLENDALE, VERDUGO MTS.
213C	SA	40	200	34 03 32	118 21 17	R. A. PETERSEN	HANCOCK PARK, 5801 WILSHIRE BOULEVARD, LOS ANGELES
218	SP	42	615	34 09 54	118 15 01	L. E. JONES	318 EAST RANDOLPH STREET, GLENDALE
219	S	35	955	34 15 21	118 24 24	L.A. CO. FIRE DEPT. PERSONNEL	12605 OSBORNE AVENUE, PACOIMA
222C	SP	40	717	34 11 39	118 23 17	D.W.P. PERSONNEL	11803 VAN OWEN STREET, NORTH HOLLYWOOD
223B-E	SA	40	1575	34 10 05	117 40 36	GERALD M. THRASHER	BELOW BIG DALTON DAM
224C	S	74	220	33 46 01	118 11 25	J. R. SMITH	444 W. OCEAN BOULEVARD, LONG BEACH
225	S	48	47	33 50 35	118 07 29	E. W. SMEATON	5812 EAST ARBOR ROAD, LAKEWOOD
225B	S	40	680	34 10 56	118 18 23	BURBANK FIRE DEPT. PERSONNEL	353 EAST OLIVE AVENUE, BURBANK
227D	S	38	472	34 06 16	118 06 32	A. E. BRUINGTON	535 WEST HERMOSA DRIVE, SAN GABRIEL
228H	S AP	44	290	34 04 27	118 23 57	R. E. HOWER	CITY HALL, 450 NORTH CRESCENT DRIVE, BEVERLY HILLS
235C	SP A	39	2550	34 11 38	118 05 17	L.A. CO. FIRE DEPT. PERSONNEL	HENNIGER FLATS NEAR MT. WILSON TOLL ROAD
237C-E	SP	44	865	34 06 21	118 27 13	D.W.P. PERSONNEL	STONE CANYON RESERVOIR, 1680 STONE CANYON ROAD, LOS ANGELES
238	SP	40	750	34 07 04	118 19 55	D.W.P. PERSONNEL	HOLLYWOOD DAM, SANTA MONICA MTS.
241C	S AP	41	116	33 46 12	118 11 32	O. LEE VAYES	CITY HALL, 205 SOUTH BROADWAY, LONG BEACH
245C	SP	37	100	34 01 17	118 23 41	CULVER CITY FIRE DEPT. PERSONNEL	9750 CULVER BOULEVARD, CULVER CITY
250D	SA	37	2625	34 27 02	118 11 55	JOHN V. HEDGECOCK	SOLEDAD AND ARRASTRE CANYON ROADS, ACTON
251B	S	51	1440	34 13 20	118 14 40	LA CRESCENTA VALLEY WATER DIST.	2700 FOOTHILL BOULEVARD, LA CRESCENTA
255D	S	39	780	34 02 58	117 50 14	J. PAGE AND E. MOORE	MT. SAN ANTONIO COLLEGE, 1100 NORTH GRAND AVENUE, WALNUT
256C	S	51	844	34 03 16	117 45 10	POMONA FIRE DEPT. PERSONNEL	590 SOUTH PARK AVENUE, POMONA
257	S	88	650	34 07 18	118 17 04	JOHN M. JEFFERS	GRIFFITH PARK NURSERY, 2650 NORTH COMMONWEALTH AVENUE, LOS ANGELES
259D	SA	38	1275	34 16 43	118 36 41	D.C. CULBREATH	TWIN LAKES PARK, 21260 COMANCHE TRAIL, CHATSWORTH
261D	SA	39	3260	34 29 40	118 15 04	SADIE TAYLOR	7101 HUBBARD ROAD, ACTON
263F	S	33	920	34 01 34	117 46 06	GLORIA E. RIVERA	2500 SOUTH GAREY AVENUE, POMONA
264C-F	SA	18	1960	34 22 23	118 24 51	L.A.C.F.C.D. PERSONNEL	25977 SAND CANYON ROAD, GORMAN CANYON, SAN GABRIEL MTS.
265D	S	44	545	33 57 08	117 55 26	P. J. WEISEL, JR.	1900 FULLERTON AVENUE, PUENTE HILLS
269C	SP AP	38	670	33 59 40	117 48 34	U.S.C.E. PERSONNEL	DIAMOND BAR HORSE CAMP, DIAMOND BAR BOULEVARD, PUENTE HILLS
270C	S	39	90	33 55 19	118 09 44	R. BASSETT	7621 BONITA STREET, DOWNEY
272D	S	39	470	34 09 21	118 18 02	L. STEVENS	5201 ZOO DRIVE, LOS ANGELES
274H	SP	70	3460	34 31 31	118 15 58	MRS. RUBY S. LEE	5701 SHANNON VALLEY ROAD, ACTON
275	S	49	670	34 07 36	118 06 48	DAVID DRUCE	1751 OXFORD ROAD, SAN MARINO
277	S	38	3700	34 43 15	118 25 00	R. FLOCH AND F. ADAMS	25252 WEST PINE CANYON ROAD
278B	S	39	200	34 02 00	118 18 46	FRANK ORDON	CLARK MEMORIAL LIBRARY, 2205 WEST ADAMS STREET, LOS ANGELES
280B	SA	39	1345	34 10 37	118 11 47	L.A. CO. FIRE DEPT. PERSONNEL	1028 INVERNESS DRIVE, FLINTRIDGE FIRE STATION, FLINTRIDGE
283C	SA	38	5370	34 19 02	117 50 28	U.S.F.S. PERSONNEL	CRYSTAL LAKE, AT PINE FLAT, NEAR U.S.F.S. STATION
284D	S	41	1485	34 22 37	118 25 43	SAM HURT	GOLDEN OAK RANCH, PLACERITA CANYON, EAST OF NEWHALL
285C	S	39	1025	34 05 10	118 28 57	MARTIN BILLINGER	12001 CHALON ROAD, WEST LOS ANGELES, SANTA MONICA MTS.
287B	[illegible]	40	785	34 08 09	117 51 52	CITY OF GLENDORA PERSONNEL	116 EAST FOOTHILL BOULEVARD, GLENDORA
289	SP	39	140	33 58 37	118 08 42	S.C.E. CO. PERSONNEL	6301 SOUTH GARFIELD AVENUE, CITY OF COMMERCE
290C	S	13	305	34 02 27	118 07 42	FIRE STATION PERSONNEL	200 SOUTH GARFIELD AVENUE, MONTEREY PARK
291	SA	39	121	33 56 56	118 15 17	D.W.P. PERSONNEL	95TH STREET AND CENTRAL AVENUE, LOS ANGELES
292D-E	S AP	41	1075	34 08 56	118 30 57	E. E. HARDIN	ENCINO DAM, SANTA MONICA MTS.
293E	SP	41	1150	34 17 18	118 28 59	C. W. CARNEY	VAN NORMAN LAKE, LOWER DAM, SAN FERNANDO
294G	SP	39	985	34 10 11	118 02 51	C. ASKEW AND L. CINNAMON	MIRAMONTE AVENUE AND MT. WILSON ROAD, SIERRA MADRE
295G	S	60	530	34 09 07	118 15 40	R. STAPENHORST	409 WEST LEXINGTON AVENUE, GLENDALE
298D	S	37	3680	34 47 16	118 49 55	DEWEY RALPH	48901 NORTH GOLDEN STATE HIGHWAY, ONE MILE EAST OF GORMAN
299F	S	35	2900	34 32 12	117 50 43	REUBEN J. SCHWAB	35030 NORTH 85TH STREET EAST, LITTLE ROCK
303P	SA	36	800	34 08 14	118 57 25	DR. N. H. BROOKS	1201 EAST CALIFORNIA STREET, PASADENA
304	SA	39	2590	34 11 35	117 57 42	JAMES T. MC COWAN JR.	DEER PARK, 1.5 MILES ABOVE SAWPIT DAM, SAN GABRIEL MTS.
305H	S	29	15	34 01 15	118 49 42	L.A. COUNTY LIFE GUARDS	30064 ROOSEVELT HIGHWAY, MALIBU
311B[a]	SP AP	31	918	34 09 48	118 09 27	MESSRS. CRAIG AND DRUBO	1089 MENTONE STREET, PASADENA
312D	S	39	682	34 08 54	117 54 48	A. S. BLAIR	515 WEST SIERRA MADRE AVENUE, AZUSA
321-E	S AP	38	3286	34 40 24	118 25 43	L.A. CO. FIRE DEPT. PERSONNEL	17021 WEST ELIZABETH LAKE ROAD, LAKE HUGHES
322	S	39	2630	34 42 50	118 21 15	ARNOLD MUNZ	12701 WEST LANCASTER ROAD, LANCASTER
334B-F	SA	37	2300	34 14 37	117 57 35	C. K. ROYSTON	COGSWELL DAM, WEST FORK, SAN GABRIEL CANYON, SAN GABRIEL MTS.
335-E	SP AP	39	455	34 06 08	118 15 34	D.W.P. PERSONNEL	SILVER LAKE RESERVOIR, LOS ANGELES
338A	S	37	5675	34 13 32	118 03 21	T. CRAGG	MT. WILSON, SAN GABRIEL MTS.
338B	SP A	30	5709	34 13 35	118 03 37	MARCIA E. WINN	POST OFFICE, MT. WILSON, SAN GABRIEL MTS.
339	SP	40	933	34 00 13	117 51 09	DR. HOMER YORK	20651 EAST LYCOMING ROAD, WALNUT
341	S	38	2900	34 27 33	118 09 20	GEORGE J. BLUM	31880 NORTH ALISO CANYON ROAD, EAST OF ACTON
342C	SP AP	37	1510	34 07 33	117 40 32	THOMAS R. CHAPPELL	1526 NORTH BENSON STREET, UPLAND
347-E	S	37	386	34 05 36	117 57 40	L.A.C.F.C.D. PERSONNEL	SCOTT PLACE, WEST OF MAIN STREET, BALDWIN PARK
340D	SP	17	2075	34 14 20	117 46 09	U.S.F.S. PERSONNEL	EAST FORK RANGER STATION, SAN GABRIEL MTS.
349C	S SP	37	1310	34 14 28	117 51 45	L.A.C.F.C.D. PERSONNEL	WEST FORK, SAN GABRIEL, BELOW NORTH FORK, SAN GABRIEL MTS.
352D	SA	37	1620	34 04 38	118 52 47	L.A. CO. FIRE DEPT. PERSONNEL	LECHUZA PATROL STATION, 1852 SOUTH DECKER ROAD, MALIBU
355B	S AP	36	340	34 05 14	118 17 28	JAMES V. VERNON	LOS ANGELES CITY COLLEGE, 855 NORTH VERMONT AVENUE, LOS ANGELES
356C	SA	25	690	34 02 31	117 48 25	R. S. HUTCHISON	PACIFIC STATE HOSPITAL, 3530 POMONA BOULEVARD, SPADRA
357	SP AP	41	1240	34 18 49	118 29 30	D.W.P. PERSONNEL	POWER HOUSE NO. 3, VAN NORMAN LAKE, UPPER DAM, SAN FERNANDO
363C	ST	14	3175	34 21 17	118 27 00	L.A.C.F.C.D. PERSONNEL	WILSON CANYON, SOUTH OF SANTA CLARA TRUCK TRAIL, SAN GABRIEL MTS.
364	S	51	2450	34 15 50	118 16 13	J. P. KINDRED	ABOVE HAINES CANYON DEBRIS BASIN, SAN GABRIEL MTS.
365C	SP	23	5040	34 16 05	118 14 06	U.S.F.S. PERSONNEL	SOUTH SLOPE OF MT. LUKENS, SAN GABRIEL MTS.
367	SP A	30	3440	34 16 18	118 15 57	J. P. KINDRED	HEAD OF HAINES CANYON, SAN GABRIEL MTS.
372	SP A	39	1560	34 32 02	118 31 27	D.W.P. PERSONNEL	SAN FRANCISQUITO CANYON, POWER HOUSE NO. 2, NORTHEAST OF SAUGUS
373B	SA	35	2225	34 14 17	118 13 27	R. T. SIMMS	3202 SHIELDS AVENUE, LA CRESCENTA
377C	SP	54	960	34 08 26	118 52 31	WILLIAM D. FURGUSON	LAKE SHERWOOD, AT FIRE STATION, VENTURA COUNTY
379D	SA	36	1600	34 14 09	117 48 15	E. K. DE VORE	SAN GABRIEL CANYON-EAST FORK, 2.7 MILES ABOVE FORKS, SAN GABRIEL MTS.
386C	S	34	1500	34 04 58	118 40 38	BEATRICE OAKLEY	506 SOUTH VERA CANYON ROAD, MALIBU, SANTA MONICA MTS.
387B	SP	34	608	34 05 02	117 53 57	CARMEN DORROSCO	227 SOUTH HOLLENBECK AVENUE, COVINA
388D	S SP	34	80	33 53 50	118 10 02	L.A. CO. FIRE DEPT. PERSONNEL	7521 COMPTON BOULEVARD, PARAMOUNT
390C-E	SP	39	1210	34 10 53	117 52 43	EVERETT PUTNAM	MORRIS DAM, SAN GABRIEL CANYON, SAN GABRIEL MTS.
391C	S SP	27	250	34 01 08	118 06 15	FIRE DEPT. PERSONNEL	600 NORTH MONTEBELLO BOULEVARD, MONTEBELLO
394	S	74	520	34 07 08	118 10 39	MRS. ELIZABETH S. STEVENS	6425 ELGIN STREET, HIGHLAND PARK, LOS ANGELES
395D	S	35	1425	34 19 29	118 25 55	T. J. TSUBOGHI	OLIVE VIEW SANITARIUM, FOOTHILL BOULEVARD AND COBALT AVENUE, SAN FERNANDO
402F	SA	31	6750	34 21 21	117 52 34	L.A.C.F.C.D. PERSONNEL	CEDAR SPRING, THREE MILES WEST OF MT. ISLIP, SAN GABRIEL MTS.
404H	S	33	2150	34 25 23	118 17 33	B. CHAPMAN	11.7 MILES EAST OF SOLEMINT ON SOLEDAD CANYON ROAD
405C	S	33	505	34 08 53	117 54 56	OLIVER ENGLER	17018 EAST GLADSTONE STREET, AZUSA
409H	SP AP	33	2905	34 40 34	118 45 47	D.W.P. PERSONNEL	42800 HIGHWAY 99, UPPER PIRU CREEK
415	SA	32	140	33 47 49	118 10 06	GEORGE I. OSBORN	CITY HALL, 2175 CHERRY AVENUE, SIGNAL HILL
416H	ST	29	5420	34 22 36	118 12 23	L.A.C.F.C.D. PERSONNEL	PACOIMA CANYON ON SANTA CLARA RIDGE, WEST OF MT. GLEASON, SAN GABRIEL MTS.
420C	S	32	3000	34 25 41	118 11 52	C. C. HREVIDDRO	2.0 MILES SOUTH OF ACTON ON MT. GLEASON TRUCK TRAIL
422G	S	34	2075	34 20 51	118 22 20	JAMES F. CHAMPION	TWO MILES ABOVE PACOIMA DAM ON LITTLE TUJUNGA ROAD, SAN GABRIEL MTS.
423A	S	32	3910	34 24 56	118 05 27	E. W. SCRIBNER	29047 NORTH ALISO CANYON ROAD, SAN GABRIEL MTS.
425B-E	SA	31	1481	34 12 19	117 51 35	OREIN R. WATKINS	SAN GABRIEL DAM, SAN GABRIEL MTS.
432	S	37	2095	34 12 32	118 01 03	LOUIS LUHRKERT	SANTA ANITA CANYON, FERN LODGE, SAN GABRIEL MTS.
433C	SA	31	1285	34 12 15	118 08 18	L.A.C.F.C.D. PERSONNEL	FAIR OAKS DEBRIS BASIN, ALTADENA
434	SA	31	800	34 08 08	118 45 08	L.A. CO. FIRE DEPT. PERSONNEL	4206 NORTH CORNELL ROAD, AGOURA
435	SA	31	600	34 04 41	118 41 35	L.A. CO. FIRE DEPT. PERSONNEL	25801 WEST PILMA ROAD, SANTA MONICA MTS.
436C	AP	31	1110	34 16 58	118 23 59	U.S.C.E. PERSONNEL	10950 BORDEN AVENUE, SAN FERNANDO, NORTHEAST OF HANSEN DAM
437	S	31	40	33 47 31	118 10 16	D. RAGSDALE	HAMILTON BOWL, 1911 WALNUT AVENUE, LONG BEACH
440C	S	30	5155	34 19 42	118 01 00	U.S.F.S. PERSONNEL	U.S.F.S. STATION, CHILAO, SAN GABRIEL MTS.
441D-E	S	30	2662	34 34 25	118 06 45	ROAD DEPT. PERSONNEL	COUNTY ROAD DEPARTMENT MAINTENANCE YARD, 38126 SIERRA HIGHWAY, PALMDALE
442C	S	30	3570	34 29 05	117 44 10	W. F. WEBSTER	33008 NORTH 223RD STREET EAST, LLANO
443B	S	30	1700	34 05 35	118 48 52	A. O. BEACH	274 SOUTH BACKUS ROAD, MALIBU, SANTA MONICA MTS.
444F-E	SA	40	400	34 46 47	118 20 35	BOTANIC GARDENS PERSONNEL	26701 ROLLING HILLS ROAD, ROLLING HILLS ESTATES
445B	S AP	30	1510	34 08 02	117 44 38	R. SARASUA	LIVE OAK DAM, NORTH OF LA VERNE
446	SA	30	2367	34 18 53	118 33 25	GETTY OIL CO. PERSONNEL	5.5 MILES NORTH OF 19901 DEVONSHIRE STREET IN ALISO CANYON, SANTA SUSANA MTS.
447C	S	30	50	34 02 18	118 38 56	L.A. CO. F. & F.W. PERSONNEL	3970 CARBON CANYON ROAD, MALIBU
449B	S AP	32	880	34 10 06	118 05 39	JOHN C. CARR	EATON DAM, 2964 EAST NEW YORK DRIVE, PASADENA
451C-E	SP A	29	1065	34 27 55	118 36 30	M. LONG	25300 GOLDEN STATE HIGHWAY, SAUGUS, EAST OF CASTAIC CREEK

TABLE VII (Continued)

RAIN GAGE STATION LOCATION

SEASON 1967-69

STA. NO.	TYPE GAGE	YRS. OF RECORD	ELEV. OF GAGE	NORTH LAT.	WEST LONG.	OBSERVER	LOCATION
455C	S AP	30	1050	34 11 08	118 10 18	RICHARD S. GARRISON	DEVIL'S GATE DAM, 1055 LA CANADA-VERDUGO ROAD, PASADENA
455B	S	29	3380	34 40 57	118 08 02	HARVEY H. HANCOCK	44023 SIERRA HIGHWAY, LANCASTER
456	S	29	2580	34 39 02	117 50 57	L. SCHOENBERGER	PIUTE BUTTE, 15701 EAST AVENUE M, LANCASTER
458	SA	29	113	34 01 10	118 47 46	L.A. CO. FIRE DEPT. PERSONNEL	29722 PACIFIC COAST HIGHWAY, MALIBU
460H	S	29	3480	34 27 34	117 55 37	NOEL NEAL	PLEASANT VIEW MESA, 30900 HARMONY LANE, EAST OF 105TH STREET EAST
462D	S	29	195	34 02 54	118 24 06	C. PRIDAY AND D. MASTROLEO	HILLCREST COUNTRY CLUB, 10000 PICO BOULEVARD, LOS ANGELES
463E	S	29	92	34 00 49	118 29 32	G. K. REED	11907 CHARNOCK ROAD, MAR VISTA, LOS ANGELES
465C	AP	24	983	34 10 06	118 26 11	U.S.C.E. PERSONNEL	SEPULVEDA DAM, VAN NUYS
466B	SA	28	3020	34 21 07	118 20 36	JAMES F. CHAMPION	PACOIMA CANYON, DUTCH LOUIE CANYON, SAN GABRIEL MTS.
468	8.81"	29	1600	34 13 18	118 13 49	L.A.C.F.C.D. PERSONNEL	PICKENS DEBRIS BASIN, 4628 BRIGGS AVENUE, LA CRESCENTA
470	SA	26	4600	34 23 09	118 05 25	J. HYDE	NEAR TIE CANYON DIVIDE, MILL CREEK, TUJUNGA, SAN GABRIEL MTS.
471	AP	28	2750	34 18 57	118 18 02	U.S.C.E. PERSONNEL	GOLD CREEK TRUCK TRAIL, ABOVE WATTS RANCH, LITTLE TUJUNGA, SAN GABRIEL MTS.
474B	S	28	130	33 57 15	118 12 43	V. J. ALLMENDINGER	8917 STATE STREET, SOUTH GATE
475	S	28	1150	34 24 50	118 32 51	NEWHALL FARMING CO. PERSONNEL	NEWHALL LAND AND FARMING COMPANY OFFICE, WEST OF SAUGUS
476H	S	28	825	34 07 50	118 47 47	ROBERT MAC LEAN	TRIUNFO CANYON, 3380 TRIUNFO CANYON ROAD, CORNELL, SANTA MONICA MTS.
477D	SA	28	4655	34 12 52	117 58 56	C. K. ROYSTON	WEST OF SPRING CAMP AT HEAD OF EAST FORK, SANTA ANITA CANYON, SAN GABRIEL MTS.
478	SP	27	3710	34 26 44	117 51 10	U.S.F.S. PERSONNEL	U.S.F.S. HEADQUARTERS, PEARBLOSSOM HIGHWAY, WEST OF BIG ROCK CREEK, VALYERMO
480B	S	26	404	34 06 31	118 08 28	L.A. CO. FIRE DEPT. PERSONNEL	5946 KAUFFMAN AVENUE, TEMPLE CITY
482	S	27	208	34 01 14	118 17 15	STANLEY S. BUTLER	CIVIL ENGINEERING BUILDING, U.S.C. 920 WEST 35TH PLACE, LOS ANGELES
486B	SA	26	3460	34 15 49	117 42 41	MRS. J. W. WIDMAN	COLDWATER CANYON, 3.5 MILES ABOVE JUNCTION WITH CATTLE CANYON, SAN GABRIEL MTS.
488B	S	26	1450	34 17 48	118 22 30	L.A. CO. FIRE DEPT. PERSONNEL	12587 NORTH DEXTER PARK ROAD, SAN FERNANDO
489	S	40	1310	34 05 37	118 39 22	MISS B. E. STUNT	COLD CREEK CANYON, SOUTH OF CALABASAS PEAK, STUNT ROAD, SANTA MONICA MTS.
492C	SA	25	5280	34 19 02	118 00 30	L.A.C.F.C.D. PERSONNEL	STATE HIGHWAY MAINTENANCE STATION NEAR CHILAO, SAN GABRIEL MTS.
497	8.81" P	21	1350	34 07 35	117 43 56	F. E. SLAUGHTER	4650 GLEN WAY, CLAREMONT
498	S	25	2800	34 15 23	118 11 43	T. ARNDT	ANGELES CREST HIGHWAY AT DARK CANYON TRAIL, SAN GABRIEL MTS.
508D	S	52	1220	34 12 33	118 10 12	U.S.F.S. PERSONNEL	ARROYO SECO CANYON AT EL PRIETO CANYON, U.S.F.S. RANGER STATION, SAN GABRIEL MTS.
517B	SA	51	4515	34 28 12	117 53 11	PHIL LEWIS	PLEASANT VIEW RIDGE, PALLETT CREEK, SOUTH OF VALYERMO
542-E	SP	50	3050	34 42 15	118 25 40	A. E. MAJORS	LOS ANGELES AQUEDUCT RESERVOIR, 46650 NORTH 170TH STREET WEST, PALMDALE
560G	S	36	1295	34 06 57	117 45 04	GENE ONTIVEROS	240 AMHERST STREET, LA VERNE
564C	S	39	3890	34 29 13	117 50 03	R. BLALOCK	32810 165TH STREET EAST, LLANO
565B	AP	22	11	33 47 16	118 12 08	CITY OF LONG BEACH PERSONNEL	1601 SAN FRANCISCO STREET, LONG BEACH
566	SP AP	44	15	33 46 46	118 08 36	C. BOWER	1020 BELMONT STREET, LONG BEACH
575C	SP	49	93	33 46 29	118 11 28	J. W. TEED	8TH AND PINE STREETS, LONG BEACH
587B	SP	63	2380	34 10 24	117 40 31	R. SARASUA	S. C. EDISON COMPANY POWER HOUSE NO. 1, SAN ANTONIO CANYON, SAN GABRIEL MTS.
588D	ST	41	8435	34 13 37	118 06 33	L.A.C.F.C.D. PERSONNEL	MT. LOWE, SAN GABRIEL MTS.
589B	SP	57	675	34 24 08	118 44 10	NEWHALL FARMING CO. PERSONNEL	NEWHALL RANCH, NEAR SANTA CLARA RIVER, VENTURA COUNTY
610D	SP	34	664	34 08 54	118 06 36	MESSRS. CRAIG AND OKUBO	CITY HALL, GARFIELD AVENUE AND RAMONA STREET, PASADENA
611C	8.81"	70	1186	34 10 48	118 07 01	L.A.C.F.C.D. PERSONNEL	ALTADENA GOLF COURSE DEBRIS BASIN, ALTADENA
612	SP	53	1181	34 12 27	118 10 00	MESSRS. CRAIG AND OKUBO	CHLORINE PLANT, MOUTH OF ARROYO SECO CANYON, PASADENA
615B	SP	30	780	34 07 46	118 09 12	PASADENA FIRE DEPT. PERSONNEL	900 SOUTH PASADENA AVENUE, PASADENA
617B	SP	55	933	34 05 58	117 46 21	J. E. ADAMSON	931 NORTH WEBER STREET, POMONA
619	S	64	3110	34 12 29	117 40 26	R. SARASUA	SIERRA POWER HOUSE, SAN ANTONIO CANYON, 2.5 MILES BELOW MT. BALDY POST OFFICE
627	SP A	70	744	34 09 20	117 54 24	OTTO KIMBER	MOUTH OF SAN GABRIEL CANYON AT POWER HOUSE, AZUSA
634C	SP	42	94	34 00 43	118 29 27	MARSHALL R. PRESSER	CITY HALL, 1685 MAIN STREET, SANTA MONICA
647J	SP	52	1690	34 16 22	118 17 35	JAMES D. PARRA	10647 MOUNTAIN AVENUE, TUJUNGA
662C	AP	32	95	33 49 26	118 10 39	G. LEE MAYES	3912 CERRITOS AVENUE, LONG BEACH
666C	S AP	37	95	33 52 20	118 11 58	LLOYD E. BALL	271 EAST NEECE STREET, LONG BEACH
672	SP	45	1450	34 09 02	118 10 57	S.C.E. CO. PERSONNEL	7600 NORTH FIGUEROA STREET, EAGLE ROCK
673D	8.81"	41	15	33 45 13	118 07 31	G. L. HOYT	ALAMITOS BAY PUMPING PLANT, ALAMITOS BAY PENINSULA
676	SP	31	1052	34 10 39	118 09 56	MESSRS. CRAIG AND OKUBO	SHELTER RESERVOIR, NEAR MONTANA STREET AND ARROYO BOULEVARD, PASADENA
679	SP	34	314	34 01 14	117 58 40	DILLON WOOD	14625 EAST CLARK AVENUE, CITY OF INDUSTRY
680B	SP	37	500	34 04 10	118 26 30	MIREK BORowski	U.C.L.A. CAMPUS, ROOF OF MATH-SCIENCE BUILDING, WESTWOOD
691A	S	31	935	34 10 15	118 01 54	J. RICE AND J. RUFF	2225 NORTH SANTA ANITA DRIVE, SIERRA MADRE
693	SP AP	38	2110	34 12 53	118 06 47	T. ARNDT	SUNSET RIDGE GUARD STATION, 4000 CHANEY TRAIL, ALTADENA
694F	SA	15	1525	34 17 22	118 12 17	J. HYDE	12560 MT. GLEASON AVENUE, TUJUNGA
695C	S	34	1850	34 17 12	118 13 32	HENRY L. SMITH	2191 WEST BIG TUJUNGA ROAD, TUJUNGA
703	SP	30	503	34 09 00	118 14 27	P. T. MC INTYRE	315 NORTH ADAMS STREET, GLENDALE
705	SP	27	2300	34 19 48	118 19 08	P. COLLINS AND J. ORMBREK	PARADISE RANCH, ALDER CREEK ABOVE LITTLE TUJUNGA CANYON, SAN GABRIEL MTS.
716	SP AP	97	306	34 03 09	118 14 13	D.W.P. PERSONNEL	410 DUCOMMUN STREET, LOS ANGELES
718B	SP	26	810	34 10 43	118 50 59	VENTURA CO. FIRE DEPT. PERSONNEL	67 ERBES ROAD, THOUSAND OAKS, VENTURA COUNTY
720B	SP	27	1065	34 15 40	118 40 10	SUSANA KNOLLS FIRE DEPT. PERSONNEL	1992 CYPRESS STREET, SUSANA KNOLLS, VENTURA COUNTY
722C	S	22	2880	34 37 23	118 13 53	PHOEBE STONE	40180 NORTH 60TH STREET WEST, LANCASTER
725B	AP	24	725	34 11 13	118 30 12	U.S.C.E. PERSONNEL	VICTORY BOULEVARD AND BALBOA BOULEVARD, RESEDA
726B	8.AP	24	2300	34 14 05	118 11 00	T. ARNDT	ANGELES CREST GUARD STATION AT ANGELES CREST HIGHWAY AND FALLS CANYON, ARROYO SECO
727J	S	24	4025	34 14 17	118 01 04	L.A.C.F.C.D. PERSONNEL	NEWCOMB PASS, 2.5 MILES NORTHEAST OF MT. WILSON, SAN GABRIEL MTS.
728	SP	24	3175	34 21 42	118 18 25	T. ARNDT	PACOIMA CANYON BETWEEN NOEL AND GOOSEBERRY CANYONS, SAN GABRIEL MTS.
730	SP	24	2950	34 13 30	118 07 42	T. ARNDT	NEAR DAWN MINE, MILLARD CANYON, ABOVE ARROYO SECO, SAN GABRIEL MTS.
731	SP	24	1060	34 11 37	118 10 29	T. ARNDT	OAK GROVE PARK, ABOVE DEVIL'S GATE DAM, PASADENA
732B	ST	23	6100	34 13 30	117 55 15	L.A.C.F.C.D. PERSONNEL	SOUTH OF SAN GABRIEL RIVER, WEST FORK, WEST OF PINE MOUNTAIN LOOKOUT
734C	SP AP	28	105	33 56 32	118 23 44	U.S.W.B. PERSONNEL	LOS ANGELES INTERNATIONAL AIRPORT, WEST OF SEPULVEDA BOULEVARD
735F	SA	13	995	34 11 40	118 39 23	L.A.C.F.C.D. PERSONNEL	7277 BRACKENRIDGE STREET, CANOGA PARK
740B	SP AP	24	6200	34 11 48	117 41 45	C. COLVER	SAN DIMAS CANYON, FERN CANYON, SAN GABRIEL MTS.
741	AP	35	2765	34 11 41	117 44 26	C. COLVER	SAN DIMAS CANYON, UPPER EAST FORK, SAN GABRIEL MTS.
742C	SP	30	445	34 06 11	118 05 56	SAN GABRIEL FIRE DEPT. PERSONNEL	115 NORTH DEL MAR AVENUE, SAN GABRIEL
747	SP AP	27	4517	34 44 47	118 43 25	U.S.W.B. PERSONNEL	SANDBERG AIRWAYS, TOP OF BALL MOUNTAIN, SOUTHEAST OF GORMAN
749B	SP AP	32	955	34 11 17	118 20 54	BURBANK PUBLIC SERVICE	2080 NORTH HOLLYWOOD WAY, BURBANK
750	SP	11	2526	34 37 20	118 05 00	F.A.A. AIRPORT PERSONNEL	FEDERAL AVIATION AGENCY AIRPORT, 2505 EAST AVENUE P, PALMDALE
755	AP	22	900	34 07 32	118 16 56	CITY OF L.A. PERSONNEL	GRIFFITH PARK, LITTLE CANYON, SANTA MONICA MTS.
757	AP	22	750	34 07 12	118 18 20	CITY OF L.A. PERSONNEL	GRIFFITH PARK, FERN DELL, SANTA MONICA MTS.
758	AP	22	600	34 08 02	118 17 27	CITY OF L. A. PERSONNEL	GRIFFITH PARK AT FORMER ZOO GROUNDS
759B	8.81" AP	22	978	34 06 32	118 24 00	CITY OF L.A. & L.A.C.F.C.D. PERSONNEL	1942 NICHOLS CANYON ROAD, HOLLYWOOD
760B	AP	22	827	34 08 56	118 24 24	CITY OF L.A. PERSONNEL	4317 NORTH BEDMAN AVENUE, STUDIO CITY
762	AP	22	945	34 07 27	118 27 15	CITY OF L.A. PERSONNEL	UPPER STONE CANYON, SANTA MONICA MTS.
763D	SP	22	1300	34 06 56	118 28 17	CITY OF L.A. PERSONNEL	SEPULVEDA CANYON, EAST FIRE ROAD NO. 19, SANTA MONICA MTS.
764	SP	22	900	34 05 42	118 25 36	CITY OF L.A. PERSONNEL	STONE CANYON, 10650 SELKIRK LANE, SANTA MONICA MTS.
766	AP	22	1625	34 07 38	118 30 03	CITY OF L.A. PERSONNEL	MANDEVILLE CANYON, FIRE ROAD NO 24, SANTA MONICA MTS.
767	SP AP	22	1150	34 06 24	118 30 10	CITY OF L.A. PERSONNEL	3351 MANDEVILLE CANYON ROAD, SANTA MONICA MTS.
768	SP	22	1800	34 07 21	118 31 36	CITY OF L.A. PERSONNEL	SULLIVAN CANYON, FIRE ROAD NO. 26, SANTA MONICA MTS.
770B	AP	18	600	34 03 03	118 33 21	CITY OF L.A. PERSONNEL	SANTA YNEZ CANYON, PASEO MIRAMAR, SANTA MONICA MTS.
771	AP	22	265	34 03 06	118 30 32	CITY OF L.A. PERSONNEL	AT MOUTH OF RUSTIC CANYON, SANTA MONICA MTS.
772	AP	22	675	34 05 02	118 15 11	CITY OF L.A. PERSONNEL	1700 NORTH ECHO PARK BOULEVARD, LOS ANGELES
774	AP	20	450	34 04 31	118 14 46	CITY OF L.A. PERSONNEL	BARLOW SANITARIUM, 2000 STADIUM WAY, CHAVEZ RAVINE, LOS ANGELES
777	SP	22	416	34 03 45	118 28 51	CITY OF L.A. PERSONNEL	259 NORTH KENTER AVENUE, KENTER CANYON, SANTA MONICA MTS.
778B	SP	21	570	34 04 50	118 28 12	CITY OF L.A. PERSONNEL	11817 BELLAGIO ROAD, SEPULVEDA CANYON, SANTA MONICA MTS.
779	AP	22	625	34 06 48	118 17 48	CITY OF L.A. PERSONNEL	GRIFFITH PARK, LOWER MINERAL WELLS, SANTA MONICA MTS.
783	SP AP	21	1360	34 12 47	118 10 12	T. ARNDT	MOUTH OF COON CANYON IN ARROYO SECO, SAN GABRIEL MTS.
786	SP	21	2250	34 13 18	118 09 47	T. ARNDT	0.75 MILE ABOVE MOUTH OF COON CANYON IN ARROYO SECO, SAN GABRIEL MTS.
788	SP	21	1710	34 12 56	118 10 00	T. ARNDT	0.4 MILE ABOVE MOUTH OF COON CANYON IN ARROYO SECO, SAN GABRIEL MTS.
789	SP	21	2325	34 13 32	118 09 19	T. ARNDT	2.6 MILES NORTHWEST OF CHANEY TRAIL AND LOMA ALTA DRIVE, ALTADENA
793	SP	21	3300	34 14 21	118 09 55	T. ARNDT	MARKHAM SADDLE, 0.6 MILE WEST OF MT. WILSON, SAN GABRIEL MTS.
794-E	SP	21	585	34 05 53	118 24 40	R. C. WELLS	LOWER FRANKLIN RESERVOIR, SANTA MONICA MTS.
795	SP	20	705	34 08 52	119 05 14	MESSRS. CRAIG & OKUBO	NEAR COLORADO STREET AND KINNELOA AVENUE, PASADENA
796	AP	21	757	34 04 55	118 14 22	CITY OF L.A. PERSONNEL	REPOSA STREET AND AVALON PARK ROW, ELYSIAN PARK, LOS ANGELES
797	SP	21	1127	34 16 17	118 35 12	R. D. MC CLELLAN	NORTH END OF DE SOTO STREET, NORTHEAST OF CHATSWORTH
799J	SP	17	650	34 00 25	118 21 47	J. W. FISH	WEST OF LA BREA AVENUE AND SOUTH OF RODEO ROAD, BALDWIN HILLS
801B	AP	22	4720	34 23 18	118 19 27	U.S.C.E. PERSONNEL	NORTH OF SANTA CLARA DIVIDE ON MAGIC MOUNTAIN, SAN GABRIEL MTS.
807B-E	SP	20	963	34 08 47	118 11 22	E. LAZAR	HILLMONT AVENUE AND CEDARIDGE AVENUE, EAGLE ROCK
807	SP A	22	620	34 04 46	118 11 14	ALBERT ARROYO	ASCOT RESERVOIR, LYNNFIELD STREET AND BOWMAN BOULEVARD, LOS ANGELES
1000	S	23	3263	34 30 48	118 08 37	L.A. BONES	3810 EAST AVENUE V, TAUNT CANYON, SOUTHWEST OF LITTLE ROCK
10059	S	23	2300	34 30 35	118 21 40	L.A. CO. FIRE DEPT. PERSONNEL	13026 WEST SIERRA HIGHWAY, SAUGUS

TABLE VII (Continued)

RAIN GAGE STATION LOCATION

SEASON 1967-69

STA. NO.	TYPE GAGE	YRS. OF RECORD	ELEV. OF GAGE	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
1006	SA	25	150	33 44 37	118 17 47	K. C. STEELE	950 WEST FIRST STREET, SAN PEDRO
1007C	S	23	5920	34 20 39	117 58 39	R. O STAVIG	CAMP VALCREST, ANGELES CREST HIGHWAY, NORTHEAST OF CHILAO FLAT
1008-E	SA	23	55	33 52 07	118 19 15	S.C.E. CO. PERSONNEL	17580 YUKON AVENUE, NORTH OF TORRANCE
1009	S	23	1625	34 26 09	118 26 06	J. DYER AND J. WARMUTH	MINT CANYON, 17257 SIERRA HIGHWAY, EAST OF SAUGUS
1010C	S	22	2170	34 06 32	117 42 06	R. SARASUA	5023 PALMER CANYON ROAD, PALMER CANYON
1011B	S	22	1275	33 45 25	118 21 11	L.A. CO. FIRE DEPT. PERSONNEL	12 WEST CREST ROAD, PALOS VERDES HILLS, NORTHWEST OF SAN PEDRO
1012B	S	22	1005	34 26 18	118 36 43	L.A. CO. FIRE DEPT. PERSONNEL	CASTAIC JUNCTION, 27223 WEST SAUGUS AND VENTURA ROAD, CASTAIC
1014F-E	SA	42	170	33 59 32	118 06 04	GEORGE E. KESTEL	331 RIVERVIEW ROAD, MONTEBELLO
1016B	S	21	1175	34 09 45	118 44 16	S. W. SWANSON	5223 NORTH FAIRVIEW DRIVE, AGOURA
1017B	SA	21	3280	34 28 41	118 01 24	D. BOWMAN	LITTLE ROCK CREEK ABOVE LITTLE ROCK DAM, SAN GABRIEL MTS.
1018B	S	13	3340	34 20 19	118 36 44	C. DWYER	SANTA SUSANA MTS. AT HEAD OF DEVIL CANYON
1019	ST	21	2850	34 21 24	118 39 42	L.A.C.F.C.D. PERSONNEL	SANTA SUSANA MTS. AT HEAD OF SALT CANYON
1020B	S	21	1800	34 08 32	117 41 55	L.A. CO. FIRE DEPT. PERSONNEL	PADUA HILLS PATROL STATION, 4049 NORTH PADUA AVENUE, CLAREMONT
1022	S	21	1725	34 28 44	118 41 04	WESTERN GULF OIL CO. PERSONNEL	HASLEY CANYON, 2 MILES ABOVE JUNCTION WITH CASTAIC CREEK
1023B	S	17	1415	34 07 44	118 34 42	W. SPEER	SANTA MARIA ROAD, SOUTH OF MULHOLLAND HIGHWAY, SANTA MONICA MTS.
1025	S	20	160	34 02 00	118 42 42	A. D. DUNNE	24708 PACIFIC COAST HIGHWAY, MALIBU BEACH
1029	S	20	4970	34 23 25	118 04 50	G. TURNER	TIE CANYON DIVIDE, SOUTH OF ANGELES FOREST HIGHWAY, SAN GABRIEL MTS.
1030	ST	20	7590	34 20 50	117 49 57	L.A.C.F.C.D. PERSONNEL	BETWEEN MT. ISLIP AND LITTLE JIMMY SPRINGS, SAN GABRIEL MTS.
1031D	ST	17	7960	34 20 23	117 55 21	L.A.C.F.C.D. PERSONNEL	0.25 MILE EAST OF WATERMAN MOUNTAIN, SAN GABRIEL MTS.
1035	SA	19	280	33 59 52	118 03 10	WALTER J. WOOD	11508 EAST BEVERLY DRIVE, WHITTIER
1037-E	SA	19	505	34 08 48	118 02 09	DAN MARTEL	301 NORTH BALDWIN AVENUE, ARCADIA
1038B	ST	19	6080	34 22 40	118 01 44	L.A.C.F.C.D. PERSONNEL	SOUTHEAST OF PACIFICO MOUNTAIN, SAN GABRIEL MTS.
1039D	S	18	225	34 04 13	118 19 23	DR. DON MAC QUEEN	245 SOUTH LARCHMONT BOULEVARD, LOS ANGELES
1040	S	18	1150	34 23 50	118 38 18	SUNRAY DX OIL CO. PERSONNEL	25835 WEST PICO CANYON ROAD, WEST OF NEWHALL
1041B	AP	20	427	34 07 04	117 58 24	U.S.C.E. PERSONNEL	SANTA FE DAM, EAST OF SPILLWAY, SOUTH OF DUARTE
1046B	S	17	2175	34 11 46	118 01 20	LILA ADAMS	CHANTRY FLAT, SANTA ANITA CANYON, SAN GABRIEL MTS.
1048B	S	18	1410	34 13 27	118 15 23	D. HENLEY AND G. TURRILL	3916 DUNSMORE AVENUE, LA CRESCENTA
1050B	S	17	1000	34 06 26	118 37 40	J. EARL HUMAN	1454 OLD TOPANGA ROAD, TOPANGA, SANTA MONICA MTS.
1051B	SP	20	800	34 10 51	118 34 23	LEE HAINES	6201 WINNETKA AVENUE, C. W. PIERCE COLLEGE, CANOGA PARK
1052	SP	17	660	34 04 51	118 31 10	PAUL WEISS	3000 RUSTIC CANYON, B.S.A. CAMP JOSEPHO, SANTA MONICA MTS.
1053B[2]	S	17	1400	34 16 40	118 17 53	H. BEHMAN	11561 MT. GLEASON AVENUE, TUJUNGA
1054	S	20	1730	34 19 35	118 24 44	R. W. PRICE	13000 SAYRE AVENUE, SAN FERNANDO
1055B	S	16	7795	34 16 29	117 36 35	H. LEFFLER	2.1 MILES SOUTHEAST OF SAN ANTONIO PEAK, AT THE NOTCH, SAN BERNARDINO COUNTY
1057B	S	16	230	34 02 02	118 02 40	DORIS K. GULLION	1000 NORTH DURFEE AVENUE, WHITTIER NARROWS, EL MONTE
1058B	SP AP	15	2595	34 35 17	118 05 31	IRRIGATION DISTRICT PERSONNEL	2005 EAST AVENUE Q, PALMDALE
1059B	ST	16	7720	34 18 46	117 48 32	L.A.C.F.C.D. PERSONNEL	SOUTH MT. HAWKINS, EAST OF CRYSTAL LAKE, SAN GABRIEL MTS.
1060B	SA	16	4000	34 25 02	117 58 13	D. DOWMAN	LITTLE ROCK CANYON AT SYCAMORE CAMP, SAN GABRIEL MTS.
1062	SA	16	6760	34 20 44	117 55 08	C. MOOK	BUCKHORN FLAT, 1.25 MILES NORTHEAST OF WATERMAN MOUNTAIN, SAN GABRIEL MTS.
1063	S	16	2520	34 29 35	118 05 25	J. G. JOHNSTON	33458 ANGELES FOREST HIGHWAY, PALMDALE, SAN GABRIEL MTS.
1064B	ST	15	2050	34 14 28	117 45 35	L.A.C.F.C.D. PERSONNEL	SAN GABRIEL CANYON, EAST FORK, 1.2 MILES ABOVE CATTLE CANYON, SAN GABRIEL MTS.
1066B	AP	16	15	33 46 40	118 06 05	T. E. MC GINNIS	845 LEES STREET, LONG BEACH
1067[2]	ST	15	4500	34 26 36	118 04 00	L.A.C.F.C.D. PERSONNEL	HEAD OF SANTIAGO CANYON, TWO MILES EAST OF ANGELES FOREST HIGHWAY, SAN GABRIEL MTS.
1068	S	16	1240	34 05 00	118 51 55	L.A. COUNTY SHERIFF PERSONNEL	CAMP NO. 3, RATTLESNAKE CANYON, SANTA MONICA MTS.
1069	ST	14	2775	34 16 58	117 44 48	J. BELL	SAN GABRIEL RIVER, EAST FORK, ABOVE DEVIL'S GULCH, SAN GABRIEL MTS.
1070	S	16	167	33 53 03	118 23 19	J. PALMER	SIXTH STREET AND ROWELL AVENUE, MANHATTAN BEACH
1071B-E	S	20	1325	34 12 07	118 12 46	G. ENGEL	1418 DESCANSO DRIVE, DESCANSO GARDENS, LA CANADA
1072	SP A	16	1275	34 17 37	118 21 36	U.S.F.S. PERSONNEL	NORTH OF FOOTHILL BOULEVARD, LITTLE TUJUNGA CANYON, SAN GABRIEL MTS.
1073B	SP	16	2650	34 32 11	118 03 46	NORMAN E. ROSS	3624 EAST AVENUE T6, PALMDALE
1074	SA	14	5500	34 22 43	118 08 57	WILLIAM KALTRITER	WEST OF LITTLE GLEASON ON SANTA CLARA RIDGE, SAN GABRIEL MTS.
1075	AP	27	3525	34 10 13	117 43 46	C. COLVER	SAN DIMAS EXPERIMENTAL FOREST, AT HEAD OF WOLFSKILL CANYON, SAN GABRIEL MTS.
1076B	SP	15	3360	34 19 42	118 07 20	U.S.F.S. PERSONNEL	22681 NORTH ANGELES FOREST HIGHWAY, SAN GABRIEL MTS.
1077B	S	15	962	34 09 58	117 59 37	P. SMITH	CANYON BOULEVARD AND OAKGLADE DRIVE, MONROVIA
1078	SA	15	975	34 04 10	117 50 47	E. S. GRIFFITH	20951 EAST VIA VERDE, WEST COVINA
1079	8.81"	15	1655	34 11 57	118 07 22	L.A.C.F.C.D. PERSONNEL	RUBIO DEBRIS DAM, NORTH OF ALTADENA, SAN GABRIEL MTS.
1080B	SA	14	935	34 09 23	117 57 56	L.A.C.F.C.D. PERSONNEL	BRADBURY DEBRIS BASIN, NORTH OF DUARTE, SAN GABRIEL MTS.
1081	8.81"	14	1200	34 11 33	118 14 28	L.A.C.F.C.D. PERSONNEL	DEER DEBRIS BASIN, DEER CANYON, VERDUGO MTS.
1082	8.81"	15	2275	34 14 52	118 15 06	L.A.C.F.C.D. PERSONNEL	DUNSMUIR DEBRIS BASIN, EAST OF TUJUNGA, SAN GABRIEL MTS.
1083	S	14	905	34 09 17	117 57 05	L.A.C.F.C.D. PERSONNEL	MADDOCK DEBRIS BASIN, MADDOCK CANYON, NORTH OF DUARTE, SAN GABRIEL MTS.
1084B	S	8	1580	34 19 50	118 25 45	L.A.C.F.C.D. PERSONNEL	MAY DEBRIS BASIN, MAY CANYON, SAN GABRIEL MTS.
1085	8.81"	14	1010	34 12 42	118 19 35	L.A.C.F.C.D. PERSONNEL	MC CLURE DEBRIS BASIN, NORTH OF BURBANK, VERDUGO MTS.
1086	8.81"	15	495	33 59 58	118 01 30	L.A.C.F.C.D. PERSONNEL	TURNBULL DEBRIS BASIN, NORTHEAST OF WHITTIER, PUENTE HILLS
1087-E	S	14	1340	34 15 25	118 20 11	MARK BOLKOVATZ	GREEN VERDUGO RESERVOIR, 10320 SUNLAND BOULEVARD, VERDUGO MTS.
1088B	SA	14	445	33 56 55	117 57 51	ART RATLIFF	1271 NORTH HACIENDA BOULEVARD, LA HABRA HEIGHTS
1089D	S	13	75	34 02 58	118 34 46	DALTON DAVIS	8221 TOPANGA CANYON BOULEVARD, MALIBU, SANTA MONICA MTS.
1090	SP	37	25	33 46 35	118 04 35	L. HEDRICK	WEST OF COYOTE CREEK, SOUTH OF 8060 SPRING STREET, ORANGE COUNTY
1092B	STP	42	80	33 51 28	117 59 20	PUBLIC WORKS OFFICE PERSONNEL	8070 ORANGE THORPE AVENUE, BUENA PARK
1093-E	SP AP	15	100	33 52 23	117 58 24	ORANGE COUNTY PERSONNEL	ARTESIA BOULEVARD AND PRITCHARD AVENUE, AT FULLERTON AIRPORT, ORANGE COUNTY
1095	SP AP	28	660	33 56 07	117 52 58	U.S.C.E. PERSONNEL	ORANGE COUNTY RESERVOIR, NORTH OF BREA, ORANGE COUNTY
1099	S	14	280	34 00 20	118 03 30	IRA D. CATE	10234 STRONG AVENUE, WHITTIER
1102B	ST	14	4920	34 16 49	118 00 08	L.A.C.F.C.D. PERSONNEL	SOUTH OF ANGELES CREST HIGHWAY AT HEAD OF BOBCAT CANYON, SAN GABRIEL MTS.
1104	S	14	1760	34 30 35	118 27 00	U.S.F.S. PERSONNEL	31251 BOUQUET CANYON ROAD, NORTHEAST OF SAUGUS, SIERRA PELONA
1105B	SP	14	2885	34 44 23	118 27 15	D. S. PATTERSON	18933 WEST AVENUE F8, FAIRMONT
1107D	SA	14	1160	34 14 13	118 19 37	J. HYDE	LA TUNA CANYON DEBRIS DAM, SUN VALLEY, VERDUGO MTS.
1108B	SA	13	2875	34 35 22	118 12 15	MRS. JOSEPH Y. CARLIN	4218 ELIZABETH LAKE, PINE CANYON ROAD, PALMDALE
1109	ST	14	8650	34 16 33	117 37 00	L.A.C.F.C.D. PERSONNEL	SOUTHEAST OF SAN ANTONIO PEAK, SAN BERNARDINO COUNTY
1110	8.81"	14	997	34 09 13	118 12 01	L.A.C.F.C.D. PERSONNEL	SCHOLL DEBRIS BASIN, GLEN OAKS BOULEVARD, GLENDALE
1111C	S	9	4760	34 24 48	117 51 25	JOHN SMITH	28000 DEVIL'S PUNCHBOWL ROAD, NEAR PEARBLOSSOM
1113	SP AP	39	30	33 49 54	118 13 30	T. J. CLEMMER	21718 SOUTH ALAMEDA STREET, LONG BEACH
1114B	AP	13	239	34 01 29	118 05 02	U.S.C.E. PERSONNEL	WHITTIER NARROWS DAM, NEAR LINCOLN BOULEVARD, NORTH OF MONTEBELLO
1115	8.81" AP	13	2120	34 09 24	117 40 20	U.S.C.E. PERSONNEL	BELOW SAN ANTONIO DAM, SAN ANTONIO CANYON, SAN GABRIEL MTS.
1116	S AP	14	15	33 47 38	118 07 15	HAYARD MILNOR	2124 SAN ANSELINE AVENUE, LONG BEACH
1117	S	13	3010	34 41 55	118 30 35	G. HELSEL	21528 PINE CANYON ROAD, LAKE HUGHES
1119B	ST	11	4325	34 41 18	118 36 16	L.A.C.F.C.D. PERSONNEL	ATMORE MEADOW, ON SOUTH SLOPE OF LIEBRE MOUNTAIN AT HEAD OF FISH CANYON
1120	ST	13	7900	34 22 08	117 48 10	L.A.C.F.C.D. PERSONNEL	SSE OF MT. LEWIS, NORTH OF ANGELES CREST HIGHWAY, SAN GABRIEL MTS.
1121C	S	13	5525	34 16 40	118 04 40	L.A. COUNTY SHERIFF PERSONNEL	BARLEY FLAT, NORTH OF ANGELES CREST HIGHWAY, SAN GABRIEL MTS.
1122	8.81"	13	2100	34 14 49	118 15 40	L.A.C.F.C.D. PERSONNEL	COOKS DEBRIS BASIN, NORTH END OF BOSTON AVENUE, LA CRESCENTA
1124B	S	12	4625	34 15 30	118 06 18	TONY ROMERO	JUNCTION OF ANGELES CREST HIGHWAY AND MT. WILSON ROAD, SAN GABRIEL MTS.
1125	S	12	400	34 01 00	117 58 16	H. J. CRUETER	237 AZUSA AVENUE, LA PUENTE
1126	8.81"	12	780	34 12 30	118 24 35	D. PETERSEN AND J. SHAFFER	12780 SATICOY STREET, LOS ANGELES
1127	S	11	615	34 10 47	118 20 07	BURBANK FIRE DEPT. PERSONNEL	2305 WEST BURBANK BOULEVARD, BURBANK
1128	SP	12	5960	34 21 34	117 37 57	W. GOODSPEED	APPLE AND CEDAR STREETS, WRIGHTWOOD, SAN BERNARDINO COUNTY
1129	S	11	340	34 02 52	118 54 57	M. E. GORDON	34035 PACIFIC COAST HIGHWAY, MALIBU, NICHOLAS CANYON, SANTA MONICA MTS.
1132	S	11	2800	34 35 35	118 43 15	U.S.F.S. PERSONNEL	OAK FLAT, ONE QUARTER MILE WEST OF GOLDEN STATE HIGHWAY, NORTHWEST OF CASTAIC
1133	ST	11	2600	34 12 23	117 56 43	L.A.C.F.C.D. PERSONNEL	FISH CANYON, NORTHEAST OF STONE CABIN, SAN GABRIEL MTS.
1135B	SP	11	750	33 46 37	118 25 15	RONALD HARRIS	2106 PALOS VERDES DRIVE WEST, PALOS VERDES ESTATES, LUNADA BAY
1137B	S	11	1375	34 12 15	118 18 03	JOHN MC WALTERS	STOUGH CANYON, ABOVE DEBRIS BASIN, NORTH OF BURBANK, VERDUGO MTS.
1138	S AP	10	5725	34 14 42	118 06 07	T. ARNDT	0.3 MILE SOUTHEAST OF MT. DISAPPOINTMENT, SAN GABRIEL MTS.
1139B	S	8	1200	33 45 40	118 22 20	ROY W. MC CARRELL	50 CREST ROAD, PALOS VERDES HILLS
1140	8.81"	9	305	34 04 53	118 03 56	L.A. CO. FIRE DEPT. PERSONNEL	9319 EAST VALLEY BOULEVARD, ROSEMEAD
1141B	S	7	2600	34 26 37	118 22 05	H. MOORE	0.4 MILE NORTH OF SPRING CANYON ROAD AND VALLEY CANYON ROAD, LANG
1142	S	31	1200	34 24 50	118 31 25	J. PERCIVALLE AND J. PATTON	2216 WEST SOLEDAD CANYON ROAD, EAST OF BOUQUET CANYON ROAD, SAUGUS
1144	SA	9	2200	34 15 43	117 50 40	TED TRAVIS	SAN GABRIEL RIVER, NORTH FORK, AND BICHOTA CANYON, SAN GABRIEL MTS.
1145	SP	10	1605	34 07 57	117 38 35	LIBERTY GROVES PERSONNEL	495 EAST 19TH STREET, UPLAND, SAN BERNARDINO COUNTY
1146	A	8	2575	34 12 52	118 01 05	LOUIS LUEBKERT	SANTA ANITA CANYON, NORTH OF FERN LODGE, SAN GABRIEL MTS.
1147	S	9	1000	34 08 52	118 31 33	ELMER BORDER	5011 NESTLE STREET, TARZANA, EL CABALLERO COUNTRY CLUB
1148B	S	8	440	34 03 00	117 54 53	HAROLD F. GAULDIN	17034 EAST FRANCISQUITO AVENUE, WEST COVINA
1150	S	7	1350	34 17 54	118 23 41	U.S.F.S. PERSONNEL	INDIAN CANYON, ABOVE LOPEZ CANYON, SAN GABRIEL MTS.
1151	SP	8	1020	34 10 15	118 06 40	MESSRS. CRAIG AND OKUHO	EAST OF ALLEN AVENUE AND NORTH OF WASHINGTON STREET, PASADENA
1152	S	9	3625	34 16 15	118 09 11	U.S.F.S. PERSONNEL	ANGELES CREST HIGHWAY AND ANGELES FOREST HIGHWAY, SAN GABRIEL
1155	S	7	60	33 53 58	118 20 35	L.A. CO. FIRE DEPT. PERSONNEL	4322 WEST 147TH STREET, LAWNDALE

TABLE VII (Continued)

RAIN GAGE STATION LOCATION

SEASON 1967-69

STA. NO.	TYPE GAGE	YRS. OF RECORD	ELEV. OF GAGE	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
1157	SP AP	6	990	34 14 17	118 31 48	DR. ARNOLD COURT	18111 NORDHOFF STREET, NORTHRIDGE
1158	S	10	102	33 47 39	118 20 06	ROY POOLER AND MAX BOAL	3901 PACIFIC COAST HIGHWAY, TORRANCE MUNICIPAL AIRPORT, TORRANCE
1159	A	3	4425	34 15 35	118 04 08	L.A.C.F.C.D. PERSONNEL	SHORTCUT CANYON, SOUTH OF ANGELES CREST HIGHWAY, SAN GABRIEL MTS.
1160	A	5	3200	34 15 02	118 01 30	L.A.C.F.C.D. PERSONNEL	UPPER WEST FORK, SAN GABRIEL RIVER, SAN GABRIEL MTS.
1161	SP AP	6	1885	34 13 52	118 13 30	ROBERT GREGG	5118 CIRCLE VISTA AVENUE, LA CRESCENTA
1162	ST	6	3330	34 31 06	118 13 46	L.A.C.F.C.D. PERSONNEL	NORTH OF IRON MOUNTAIN NEAR MENDENHALL RIDGE ROAD, SAN GABRIEL MTS.
1163	ST	2	5480	34 19 33	117 51 42	L.A.C.F.C.D. PERSONNEL	NORTHWEST OF CRYSTAL LAKE, WEST OF CRYSTAL LAKE ROAD, SAN GABRIEL MTS.
1164	8.81"	5	90	33 48 35	118 21 05	R. BARBOSA	HAWTHORNE AVENUE AT 236TH STREET, TORRANCE
1165	AP	6	1850	34 07 33	118 33 20	CITY OF LOS ANGELES PERSONNEL	MULHOLLAND HIGHWAY AND FIRE ROAD NO. 30, SANTA MONICA MTS.
1166 [5]	S	3	5200	34 26 40	117 46 07	WARNER H. RICHTER	27500 LARGO VISTA STREET, VALYERMO
1167	S	4	5380	34 23 25	117 46 27	STANLEY LYNCH	FENNER CANYON AT BIG ROCK CREEK, MT. BADEN POWELL, SAN GABRIEL MTS.
1168B	SP	4	4575	34 45 36	118 54 46	G. W. REYNOLDS	MAXY RANCH, HUNGRY VALLEY, GORMAN
1169	SP	15	1145	34 28 24	119 45 42	FRANK C. BECKWITH	LAKE PIRU, PIRU CANYON, VENTURA COUNTY
1170	AP	13	900	34 09 48	118 50 12	VENTURA CO. F.C.D. PERSONNEL	THOUSAND OAKS, VENTURA COUNTY
1171	SP AP	13	725	34 24 20	119 45 20	HARRY FORBES	CAMULOS RANCH, PIRU, VENTURA COUNTY
1172	AP	13	1150	34 30 48	119 45 30	FRANK C. BECKWITH	PIRU CANYON, ABOVE PIRU LAKE, VENTURA COUNTY
1174	SP	4	2824	34 05 09	118 47 01	RAY SMITH	CASTRO PEAK, SANTA MONICA MTS.
1175	AP	2	1170	34 17 00	118 40 08	JERRY BEETS	DOUGLAS WHITE OAKS PARK, SANTA SUSANA, VENTURA COUNTY
1176B	AP	3	2820	34 21 54	118 45 41	VENTURA CO. F.C.D. PERSONNEL	SIMI, VENTURA COUNTY
1177	AP	3	1030	34 14 36	118 49 42	A. L. ALGAR	BARD RESERVOIR, SIMI, VENTURA COUNTY
1178	SP	3	3054	34 42 50	118 49 44	BUD P. JOHN	KINSEY RANCH, LOWER HUNGRY VALLEY
1179	SP	3	2980	34 41 30	118 51 00	MRS. O. E. SUMMERVILLE	BUCK CREEK GUARD STATION, VENTURA COUNTY
1180	S	3	700	34 03 27	118 32 34	LORI BLUM	1218 TELLUM DRIVE, PACIFIC PALISADES, SANTA MONICA MTS.
1181	A	2	1400	34 19 35	118 27 26	L.A.C.F.C.D. PERSONNEL	SCHOOLHOUSE CANYON DEBRIS BASIN, SAN GABRIEL MTS.
1182	AP	3	1670	34 36 11	118 39 40	D.W.R. PERSONNEL	FISH CREEK, NORTH OF CASTAIC
1183B	SP	43	315	33 55 53	117 57 17	FIRE STATION PERSONNEL	850 WEST CENTRAL AVENUE, LA HABRA
1184	S	1	1440	34 33 55	118 38 24	ROY ATKINSON	36700 N. SAN FRANCISQUITO CANYON ROAD, SAUGUS
1185	S	1	2010	34 31 02	119 35 30	M. O. GEMAS	CASTAIC TOWER LOOKOUT, SAUGUS
1186	ST	1	2475	34 11 50	117 55 15	L.A.C.F.C.D. PERSONNEL	WEST OF SILVER MOUNTAIN, ROBERTS CANYON, SAN GABRIEL MTS.
#15B	S	18	3070	34 44 48	117 46 57	JOHN STEBBINS	47403 NORTH 185TH STREET EAST, W VISTA
X19	SP	13	3400	34 15 52	118 15 11	T. ARNDT	WEST SIDE COOKS CANYON, SAN GABRIEL MTS.
X21B	SP	13	4360	34 16 38	118 13 47	T. ARNDT	DUNSMORE CANYON, WEST OF PICKENS CANYON, SAN GABRIEL MTS.
X22	ST	12	6680	34 21 27	117 51 05	L.A.C.F.C.D. PERSONNEL	SLIP SADDLE, NORTH OF ANGELES CREST HIGHWAY, SAN GABRIEL MTS.
X23	ST	12	7280	34 22 16	117 46 51	L.A.C.F.C.D. PERSONNEL	DORR CANYON, EAST OF ANGELES CREST HIGHWAY, SAN GABRIEL MTS.
X24	ST	12	7360	34 22 30	117 43 05	L.A.C.F.C.D. PERSONNEL	GRASSY HOLLOW, NORTH OF ANGELES CREST HIGHWAY, SAN GABRIEL MTS.
X25	ST	12	7680	34 21 58	117 41 27	L.A.C.F.C.D. PERSONNEL	BEAR GULCH, GLUE RIDGE, SAN GABRIEL MTS.
X26	ST	12	8450	34 20 57	117 40 23	L.A.C.F.C.D. PERSONNEL	NORTH OF PRAIRIE FORK ROAD, NORTHWEST OF MT. BALDY, SAN GABRIEL MTS.
X27	ST	12	8080	34 20 20	117 38 55	L.A.C.F.C.D. PERSONNEL	BLUE RIDGE, EAST OF SAN BERNARDINO COUNTY LINE, SAN GABRIEL MTS.
X28B	A	12	8130	34 21 28	117 40 54	D. D. BURNS	TOP OF HOLIDAY HILL CHAIR LIFT, NORTH OF PRAIRIE FORK ROAD, SAN GABRIEL MTS.
X29	A	8	8100	34 13 35	117 54 28	L.A.C.F.C.D. PERSONNEL	0.5 MILE WEST, NORTHWEST OF PINE MOUNTAIN, SAN GABRIEL MTS.
X38	8.81"	10	1890	34 14 07	118 14 12	L.A.C.F.C.D. PERSONNEL	NORTHEAST OF FRANCES AVENUE AND LA CRESCENTA AVENUE, LA CRESCENTA
X39 [4]	A	1	930	34 09 27	118 42 02	L.A.C.F.C.D. PERSONNEL	3661 N. LAS VIRGENES ROAD, LAS VIRGENES CANYON
X40	A	2	1200	33 59 55	119 03 13	A. FALCONE	14136 SKYLINE DRIVE, TURNBULL CANYON
X42B	S	1	1250	34 09 15	117 52 36	L.A.C.F.C.D. PERSONNEL	HOOK DEBRIS BASIN, NORTHWEST OF GLENDORA
X43	8.81" AP	1	1225	34 09 25	117 51 40	L.A.C.F.C.D. PERSONNEL	MARROW DEBRIS BASIN, NORTHEAST OF GLENDORA
X44	8.81"	1	1310	34 09 25	117 50 48	L.A.C.F.C.D. PERSONNEL	ENGLEWILD DEBRIS BASIN, NORTHEAST OF GLENDORA

FOOTNOTES

[1] STATION DISCONTINUED NOVEMBER 20, 1968
[2] STATION DISCONTINUED JANUARY 1, 1969
[3] STATION DISCONTINUED OCTOBER 1, 1968
[4] STATION DISCONTINUED JANUARY 26, 1969
[5] STATION DISCONTINUED APRIL 1, 1969
[6] STATION DISCONTINUED JANUARY 25, 1969
[7] STATION DISCONTINUED OCTOBER 14, 1968
[8] STATION DISCONTINUED OCTOBER 1, 1968
[9] STATION DISCONTINUED SEPTEMBER 30, 1968
[10] STATION DISCONTINUED NOVEMBER 22, 1967
[11] STATION DISCONTINUED JANUARY 28, 1969

LEGEND REGARDING GAGE TYPE AND OWNERSHIP

S STANDARD 8" DIAMETER NON-RECORDING GAGE OWNED BY FLOOD CONTROL DISTRICT
A AUTOMATIC RECORDING GAGE OWNED BY FLOOD CONTROL DISTRICT
ST STORAGE TYPE GAGE OWNED BY FLOOD CONTROL DISTRICT
8.81" 8.81" DIAMETER NON-RECORDING GAGE OWNED BY FLOOD CONTROL DISTRICT
3" P 3" DIAMETER NON-RECORDING GAGE OWNED BY OUTSIDE INTERESTS
4½" P 4½" DIAMETER NON-RECORDING GAGE OWNED BY OUTSIDE INTERESTS
8P 8" DIAMETER NON-RECORDING GAGE OWNED BY OUTSIDE INTERESTS
AP AUTOMATIC RECORDING GAGE OWNED BY OUTSIDE INTERESTS
SUFFIX B OR C DENOTES SECOND AND THIRD LOCATION OF STATION IN SAME AREA UNDER NEARLY SAME CONDITIONS
SUFFIX - E DENOTES EVAPORATION PAN AT STATION

TABLE VIII

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

ACTIVE RECORDING RAIN GAGES

SEASONS 1967–69

STA. NO.	NAME OF STATION	ELEV. OF GAGE	WATERSHED	PERIOD OF RECORD	
5	TOPANGA CANYON PATROL STATION	745	TOPANGA CANYON	8/1/30	TO DATE
10B	BEL AIR HOTEL	585	BALLONA CREEK	1/4/29	TO DATE*
11C	UPPER FRANKLIN CANYON RESERVOIR	867	FRANKLIN CANYON	9/29/37	TO DATE
33A-E	PACOIMA DAM	1500	PACOIMA CANYON	9/22/30	TO DATE
46D-E	BIG TUJUNGA DAM	2315	BIG TUJUNGA CANYON	12/9/40	TO DATE
47D	CLEAR CREEK CITY SCHOOL	3150	BIG TUJUNGA CANYON	11/2/28	TO 11/17/54
				12/15/57	TO DATE
52D	WATERMAN GUARD STATION	3300	ARROYO SECO	1/15/26	TO 2/28/28
				10/27/37	TO DATE
53D	COLBY'S	3620	BIG TUJUNGA CANYON	9/19/26	TO 12/26/60
				2/14/41	TO DATE
54C	LOOMIS RANCH – ALDER CREEK	4325	BIG TUJUNGA CANYON	11/24/31	TO DATE
57H-E	CAMP EL HILL (OPID'S)	4250	SAN GABRIEL – WEST FORK	12/14/29	TO DATE*
60A	HOEGEE'S	2600	SANTA ANITA CANYON	11/11/26	TO DATE*
63C-E	SANTA ANITA DAM	1400	SANTA ANITA CANYON	2/24/50	TO DATE
68C	SAWPIT DAM	1375	SAWPIT CANYON	11/20/52	TO 7/20/53
				12/17/53	TO DATE
70D	ROGER'S CANYON	770	SAN GABRIEL RIVER	12/4/26	TO 11/20/68
73	GLENDORA – ENGLEWILD RANCH	1165	SAN GABRIEL RIVER	7/29/68	TO DATE
83B	BIG PINES RECREATION PARK	8860	MESCAL CREEK	12/17/25	TO DATE
85G	MT. BALDY GUARD STATION	4275	SAN ANTONIO CANYON	11/11/27	TO DATE*
89B-E	SAN DIMAS DAM	1350	SAN DIMAS CANYON	2/27/50	TO 10/25/57
				12/4/59	TO DATE
92	CLAREMONT – POMONA COLLEGE	1185	SAN ANTONIO WASH	12/2/27	TO DATE
96C-E	PUDDINGSTONE DAM	1030	PUDDINGSTONE CREEK	10/14/52	TO DATE
108D	EL MONTE FIRE STATION	275	RIO HONDO	10/11/38	TO DATE
116D	INGLEWOOD FIRE STATION	135	CENTINELA CREEK	2/26/48	TO DATE
128B	ELIZABETH LAKE CANYON – WARM SPRINGS	2978	ELIZABETH LAKE CANYON	2/21/55	TO DATE
155	LA MIRADA – STANDARD OIL CO.	86	COYOTE CREEK	4/19/46	TO DATE
158	TANBARK FLATS	2750	SAN DIMAS CREEK	12/20/68	TO DATE
178C	AZUSA VALLEY WATER CO.	620	SAN GABRIEL RIVER	1/1/31	TO 11/4/54
				12/12/61	TO DATE
179G	BAILEY DEBRIS BASIN	1180	RIO HONDO	6/24/41	TO DATE
191B	LOS ANGELES – ALCAZAR	400	LOS ANGELES RIVER	6/27/52	TO DATE
201C	PUENTE HILLS – ALTA MIRA RANCH	845	SAN JOSE CREEK	9/15/38	TO 11/2/38
				12/19/40	TO DATE
210B	BRAND PARK	1250	LOS ANGELES RIVER	12/27/28	TO DATE
213C	LOS ANGELES – HANCOCK PARK	200	BALLONA CREEK	1/13/29	TO DATE
223B-E	BIG DALTON DAM	1375	BIG DALTON CANYON	11/28/47	TO 9/5/52
				10/14/52	TO DATE
235C	HENNIGER FLATS	2150	EATON CANYON	1/2/30	TO DATE
250D	ACTON CAMP	2625	SOLEDAD CANYON	1/4/57	TO DATE
259D	CHATSWORTH – TWIN LAKES	1275	LOS ANGELES RIVER	8/17/37	TO DATE
261D	ACTON – HUBBARD ROAD	3260	SANTA CLARA RIVER	11/29/30	TO DATE*
264C	SAND CANYON – GORMAN CANYON	1950	SAND CANYON	10/4/62	1/21/69
280B	FLINTRIDGE FIRE STATION	1345	ARROYO SECO	7/26/30	TO DATE
283C	CRYSTAL LAKE	5370	SAN GABRIEL – NORTH FORK	11/26/35	TO DATE
291	LOS ANGELES – 96TH AND CENTRAL	121	LOS ANGELES RIVER	10/6/30	TO DATE
303F	PASADENA – CAL TECH	600	ALHAMBRA WASH	12/13/30	TO DATE
304	SAWPIT CANYON – BEER PARK	2690	SAWPIT CANYON	11/30/61	TO DATE
334B-E	COGSWELL DAM	2300	SAN GABRIEL – WEST FORK	1/14/32	TO DATE
338B	MOUNT WILSON – AIRWAYS	5709	SANTA ANITA CANYON	3/4/32	TO DATE*
352B	LECHUZA PATROL STATION	1520	LECHUZA CANYON	11/28/34	TO DATE*
356C	SPADRA – PACIFIC COLONY	630	SAN JOSE CREEK	3/30/38	TO DATE*
367	HAINES CANYON – UPPER	3440	HAINES CANYON	1/13/33	TO DATE
372	SAN FRANCISQUITO POWER HOUSE NO. 2	1580	SANTA CLARA RIVER	5/25/44	TO DATE
373B	BRIGGS TERRACE	2223	PICKENS CANYON	11/26/33	TO DATE
379B	SAN GABRIEL – EAST FORK	1600	SAN GABRIEL – EAST FORK	12/8/37	TO 8/1958
				2/14/46	TO DATE
402F	CEDAR SPRING	6780	SAN GABRIEL RIVER	10/25/57	TO DATE
415	SIGNAL HILL CITY HALL	140	SOUTH COASTAL PLAIN	3/15/37	TO DATE*
425B-E	SAN GABRIEL DAM	1485	SAN GABRIEL RIVER	11/5/37	TO DATE*
433C	FAIR OAKS DEBRIS BASIN	1585	ARROYO SECO	9/14/38	TO DATE
434	MALIBU DIVISION HEADQUARTERS	800	MEDEA CREEK	10/27/43	TO DATE
435	MONTE NIDO	600	MALIBU CREEK	11/19/43	TO DATE
444F-E	ROLLING HILLS – SOUTH COAST BOTANIC GARDENS	400	DOMINGUEZ CHANNEL	7/13/48	TO DATE
445B	LIVE OAK DAM	1510	LIVE OAK CANYON	3/20/40	6/22/60
				11/3/60	TO DATE
446	ALISO CANYON – OAT MT.	2957	ALISO CANYON	7/20/40	TO DATE*
449B	EATON WASH DAM	950	EATON WASH	10/31/50	TO 12/2/57
				10/5/59	TO 12/22/59
				10/12/60	TO DATE
451C-E	CASTAIC – WAYSIDE HONOR RANCH	1055	SANTA CLARA RIVER	1/3/57	TO DATE
453C	DEVIL'S GATE DAM	1090	ARROYO SECO	11/20/52	TO 9/15/53
				1/27/54	TO DATE
458	ZUMA CANYON PATROL STATION	115	ZUMA CANYON	9/16/65	TO DATE
465B	PACOIMA CANYON – DUTCH LOUIE CANYON	3220	PACOIMA CANYON	1/16/41	TO DATE
470	TUJUNGA – MILL CREEK	4600	BIG TUJUNGA CANYON	10/18/41	TO DATE*
				7/9/51	TO DATE
477D	SANTA ANITA – SPRING CAMP	4653	SANTA ANITA CANYON	11/25/41	TO DATE
486B	COLDWATER CANYON – WIDMAN RANCH	2400	SAN GABRIEL – EAST FORK	9/22/43	TO 11/18/68
492C	CHILAO – STATE HIGHWAY MAINTENANCE STATION	5280	SAN GABRIEL – WEST FORK	10/10/44	TO DATE
517B	ANDERSEN RANCH (LEWIS RANCH)	4615	PALLETT CREEK	12/7/43	TO DATE
627	SAN GABRIEL CANYON POWER HOUSE	744	SAN GABRIEL RIVER	11/22/68	TO DATE
694F	BIG TUJUNGA CANYON	1525	BIG TUJUNGA CANYON	7/20/67	TO DATE
735H	BELL CANYON	892	LOS ANGELES RIVER	10/30/68	TO DATE
807	ASCOT RESERVOIR	620	LOS ANGELES RIVER	10/26/61	TO DATE
1006	SAN PEDRO CITY RESERVOIR	180	SOUTH COASTAL PLAIN	3/7/46	TO DATE
1008-E	LA FRESA – S.C.E. CO. SUBSTATION	65	LAGUNA DOMINGUEZ	5/29/46	TO DATE
1014F-E	RIO HONDO SPREADING GROUNDS	170	RIO HONDO	9/29/47	TO DATE
1017B	LITTLE ROCK CREEK ABOVE DAM	3280	LITTLE ROCK CANYON	8/6/49	TO 4/7/59
				11/9/59	TO DATE
1035	WHITTIER – WOOD	280	SAN GABRIEL RIVER	10/27/52	TO DATE
1037-E	ARCADIA – ARBORETUM	565	RIO HONDO	3/3/55	TO DATE
1060B	LITTLE ROCK – SYCAMORE CAMP	4000	LITTLE ROCK CREEK	7/21/53	TO DATE
1062	BLICKHORN FLAT	5760	LITTLE ROCK CREEK	2/16/54	TO DATE
1072	LITTLE TUJUNGA RANGER STATION	1275	LITTLE TUJUNGA CANYON	12/4/68	TO DATE
1074	LITTLE SLEASON	5600	SANTA CLARA RIVER	9/29/54	TO DATE
1078	COVINA – GRIFFITH	975	WALNUT CREEK	1/26/55	TO DATE
1080B	BRADBURY DEBRIS BASIN	935	SAN GABRIEL RIVER	5/25/55	TO DATE
1088B	LA HABRA HEIGHTS MUTUAL WATER CO.	445	COYOTE CREEK	3/8/55	TO DATE
1107D	LA TUNA CANYON	1160	LOS ANGELES RIVER	11/14/55	TO DATE
1109D	LEONA VALLEY	2875	AMARGOSA CREEK	4/26/56	TO DATE
1138	MT. DISAPPOINTMENT	5725	ARROYO SECO	11/20/59	TO DATE
1144	SAN GABRIEL – NORTH FORK	2200	SAN GABRIEL RIVER	10/4/60	TO DATE
1146	SANTA ANITA CANYON HELIPORT	2275	SANTA ANA CANYON	1/31/61	TO DATE
1159	SHORTCUT CANYON – WEST FORK	4425	SAN GABRIEL RIVER – WEST FORK	2/15/63	TO DATE
1160	SAN GABRIEL CANYON – WEST FORK – HELIPORT	3200	SAN GABRIEL RIVER – WEST FORK	9/24/63	TO DATE
1181	SCHOOLHOUSE CANYON	1495	SCHOOLHOUSE CANYON	7/20/67	TO DATE
X28B	HOLIDAY HILL	8130	SAN GABRIEL RIVER	11/15/67	TO DATE
X29	PINE MOUNTAIN	4100	SAN GABRIEL RIVER	12/26/56	TO DATE
X36	VERDUGO MOUNTAINS – HILLCREST CANYON	1200	LOS ANGELES RIVER	3/25/64	TO 10/24/67
X39	LAS VIRGENES CANYON	890	LAS VIRGENES CANYON	10/24/67	TO DATE
X40	TURNBULL CANYON – SKYLINE DRIVE	1200	SAN GABRIEL RIVER	11/2/67	TO DATE
X41	BELL CANYON – WARD	1125	LOS ANGELES RIVER	1/25/67	TO 6/12/68

LEGEND

*HOURLY RAINFALL AMOUNTS PUBLISHED BY THE UNITED STATES WEATHER BUREAU SINCE OCTOBER 1, 1961

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

TABLE IX

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

ACTIVE AUTOMATIC RAIN GAGES

OWNED BY OUTSIDE INTERESTS

SEASON 1967-69

STA. NO.	NAME OF STATION	ELEV. OF GAGE	OWNERSHIP	WATERSHED	PERIOD OF RECORD	
23-E	CHATSWORTH RESERVOIR	865	UNITED STATES CORPS OF ENGINEERS	LOS ANGELES RIVER	10/23/35	TO DATE (1)(2)(3)
87B	SAN DIMAS GUARD STATION	1485	UNITED STATES FOREST SERVICE	SAN DIMAS CANYON	12/11/25	TO 11/23/26
					11/15/42	TO 1/25/69
124B-E	BOUQUET CANYON RESERVOIR	3050	LOS ANGELES - DEPARTMENT OF WATER AND POWER	SANTA CLARA RIVER	11/1/31	TO DATE
140C	SAWTELLE	250	CITY OF LOS ANGELES	BALLONA CREEK	10/5/51	TO DATE
157B	EL SEGUNDO - STANDARD OIL COMPANY	150	STANDARD OIL COMPANY	WEST COASTAL PLAIN	5/15/48	TO DATE
158	TANBARK FLATS	2750	UNITED STATES FOREST SERVICE	SAN DIMAS CREEK	1/16/29	TO DATE (1)(2)
228B	BEVERLY HILLS - CITY HALL	290	CITY OF BEVERLY HILLS	BALLONA CREEK	10/14/31	TO DATE
241C	LONG BEACH - CITY HALL	16	CITY OF LONG BEACH	SOUTH COASTAL PLAIN	10/1/65	TO DATE
269C	DIAMOND BAR - HORSE CAMP	870	UNITED STATES CORPS OF ENGINEERS	BREA CANYON	12/3/41	TO DATE (1)(2)
2320-E	ENCINO RESERVOIR	1175	UNITED STATES CORPS OF ENGINEERS	LOS ANGELES RIVER	12/10/62	TO DATE (3)
511B	PASADENA METEOROLOGICAL STATION	918	PASADENA WATER DEPARTMENT	ARROYO SECO	10/1/36	TO DATE
539-E	SILVER LAKE RESERVOIR	455	CITY OF LOS ANGELES	BALLONA CREEK	3/16/62	TO DATE
555B	LOS ANGELES CITY COLLEGE	340	LOS ANGELES CITY COLLEGE	BALLONA CREEK	10/1/52	TO DATE
357	VAN NORMAN LAKE - UPPER	1248	UNITED STATES CORPS OF ENGINEERS	WELDON CANYON	12/4/45	TO DATE (1)(2)
407-E	NEWHALL - UNITED STATES FOREST SERVICE HDQTRS.	1325	UNITED STATES WEATHER BUREAU	SANTA CLARA RIVER	12/1949	TO 6/4/68 (1)(2)
409-E	RIDGE ROUTE - STATE HIGHWAY MAINTENANCE YARD	2505	CALIFORNIA - DEPARTMENT OF WATER RESOURCES	SANTA CLARA RIVER	12/1/58	TO 4/1960
					9/18/67	TO DATE
436C	HANSEN DAM	1110	UNITED STATES CORPS OF ENGINEERS	TUJUNGA WASH	10/30/40	TO DATE (1)(2)
465C	SEPULVEDA DAM	683	UNITED STATES CORPS OF ENGINEERS	LOS ANGELES RIVER	10/23/45	TO DATE (1)(2)
471	LITTLE TUJUNGA - GOLD CREEK	2750	UNITED STATES CORPS OF ENGINEERS	LITTLE TUJUNGA CANYON	10/30/41	TO DATE (1)
565B	LONG BEACH - CITY AUTOMATIC	11	CITY OF LONG BEACH	SOUTH COASTAL PLAIN	11/8/24	TO DATE
566	LONG BEACH NO. 1	15	CITY OF LONG BEACH	SOUTH COASTAL PLAIN	11/13/56	TO DATE
666C	LONG BEACH - CERRITOS AVENUE	55	CITY OF LONG BEACH	SOUTH COASTAL PLAIN	9/1953	TO 10/1/58
683	SUNSET RIDGE GUARD STATION	2110	UNITED STATES FOREST SERVICE	ARROYO SECO	10 16 45	TO 3/31/47
					10/20/55	TO DATE (2)(3)
718	LOS ANGELES - DUCOMMUN STREET	306	UNITED STATES WEATHER BUREAU	LOS ANGELES RIVER	3/19/1897	TO DATE (1)(2)(3)
725B	BIRMINGHAM HOSPITAL	728	UNITED STATES CORPS OF ENGINEERS	LOS ANGELES RIVER	8/4/44	TO DATE (1)(2)(3)
726B	ANGELES CREST GUARD STATION	2300	UNITED STATES FOREST SERVICE	ARROYO SECO	10/16/45	TO DATE
734B	LOS ANGELES INTERNATIONAL AIRPORT	126	UNITED STATES WEATHER BUREAU	LAGUNA DOMINGUEZ	10/18/48	TO DATE (1)
740B	SAN DIMAS CANYON - FERN NO. 2	3250	UNITED STATES FOREST SERVICE	SAN DIMAS CREEK	10/12/36	TO DATE (2)(3)
741	SAN DIMAS CANYON - UPPER EAST FORK	2765	UNITED STATES FOREST SERVICE	SAN DIMAS CREEK	10 4 34	TO DATE (2)(3)
747	SANDBERG AIRWAYS STATION	4517	UNITED STATES WEATHER BUREAU	SANTA CLARA RIVER	4/2/32	TO DATE (1)
749B	BURBANK	699	UNITED STATES WEATHER BUREAU	LOS ANGELES RIVER	9 29 31	TO 2 13 68
					9 28 66	TO DATE (1)
755	GRIFFITH PARK - LITTLE CANYON	900	CITY OF LOS ANGELES	LOS ANGELES RIVER	9/4/47	TO DATE
757	GRIFFITH PARK - FERN DELL	750	CITY OF LOS ANGELES	BALLONA CREEK	9/4/47	TO DATE
758	GRIFFITH PARK - LOWER SPRING CANYON	600	CITY OF LOS ANGELES	LOS ANGELES RIVER	9/3/47	TO DATE
759B	NICHOLS DEBRIS BASIN	878	CITY OF LOS ANGELES	NICHOLS CANYON	9/11/47	TO DATE
760	STUDIO CITY - GOODLAND AVENUE	680	CITY OF LOS ANGELES	LOS ANGELES RIVER	10/3/47	TO DATE
762	UPPER STONE CANYON	943	CITY OF LOS ANGELES	BALLONA CREEK	8/4/47	TO DATE (2)
766	MANDEVILLE CANYON - FIRE ROAD NO. 24	1625	CITY OF LOS ANGELES	MANDEVILLE CANYON	9/5/47	TO DATE (2)
767	MANDEVILLE CANYON ROAD	1160	CITY OF LOS ANGELES	MANDEVILLE CANYON	7/1/53	TO DATE (2)
770B	SANTA YNEZ CANYON - PASEO MIRAMAR	860	CITY OF LOS ANGELES	SANTA YNEZ CANYON	9/11/47	TO 9 30/61
					3/15/62	TO DATE
771	RUSTIC CANYON - SANTA MONICA MOUNTAINS	265	CITY OF LOS ANGELES	RUSTIC CANYON	9/10/47	TO DATE (2)
772	LOS ANGELES - ECHO PARK AND LUCRETIA	475	CITY OF LOS ANGELES	BALLONA CREEK	9/15/47	TO DATE (2)
778	BARLOW SANITARIUM	450	CITY OF LOS ANGELES	LOS ANGELES RIVER	12/19/47	TO DATE (2)
779	GRIFFITH PARK - LOWER MINERAL WELLS	625	CITY OF LOS ANGELES	LOS ANGELES RIVER	11/1947	TO DATE (2)
783	COON CANYON	1350	UNITED STATES FOREST SERVICE	ARROYO SECO	10/1948	TO DATE (2)
790	ELYSIAN PARK - FIRE DEPARTMENT	757	CITY OF LOS ANGELES	LOS ANGELES RIVER	9/20/48	TO DATE
801B	MAGIC MOUNTAIN	4720	UNITED STATES CORPS OF ENGINEERS	SOLEDAD CANYON	3/19/47	TO 10/1955
					5/12/66	TO DATE
1041B	SANTA FE DAM	427	UNITED STATES CORPS OF ENGINEERS	SAN GABRIEL RIVER	10/24/45	TO DATE (1)(2)
1058	PALMDALE	2595	UNITED STATES WEATHER BUREAU	ANTELOPE VALLEY	3/27/53	TO DATE (1)
1065B	LONG BEACH - LEES STREET	10	CITY OF LONG BEACH	SOUTH COASTAL PLAIN	11/13/55	TO DATE (2)
1075	UPPER WOLFSKILL CANYON	3625	UNITED STATES FOREST SERVICE	SAN DIMAS CANYON	12/14/37	TO 5/25/48
					1/7/54	TO DATE (2)(3)
1093-E	FULLERTON AIRPORT	100	ORANGE COUNTY FLOOD CONTROL DISTRICT	COYOTE CREEK	1/1935	TO DATE
1095	ORANGE COUNTY RESERVOIR	669	UNITED STATES CORPS OF ENGINEERS	BREA CANYON	10/17/41	TO DATE (1)
1113	DOMINGUEZ WATER CO.	30	DOMINGUEZ WATER CO.	SOUTH COASTAL PLAIN	11/1/55	TO DATE
1114B	WHITTIER NARROWS DAM	239	UNITED STATES CORPS OF ENGINEERS	RIO HONDO	6/7/57	TO DATE
1115	SAN ANTONIO DAM	2120	UNITED STATES CORPS OF ENGINEERS	SAN ANTONIO CANYON	8/1/56	TO DATE
1116	LONG BEACH - SAN ANSELINE	15	CITY OF LONG BEACH	SAN GABRIEL RIVER	3 1 63	TO DATE
1157	SAN FERNANDO VALLEY STATE COLLEGE	890	SAN FERNANDO VALLEY STATE COLLEGE	LOS ANGELES RIVER	2 6 62	TO DATE
1161	LA CRESCENTA - GREGG	1865	ROBERT GREGG	VERDUGO WASH	12/1966	TO DATE
1165	GARAPITO CREEK	1850	CITY OF LOS ANGELES	GARAPITO CREEK	10 11 63	TO DATE
1170	WATER WORKS DISTRICT NO. 8 - THOUSAND OAKS	900	VENTURA COUNTY FLOOD CONTROL DISTRICT	CALLEGUAS - CONEJO	10/3 66	TO DATE
1171	CAMULOS RANCH - PIRU	720	VENTURA COUNTY FLOOD CONTROL DISTRICT	SANTA CLARA RIVER	10/19/66	TO DATE
1172	PIRU CANYON - ABOVE PIRU LAKE	1150	VENTURA COUNTY FLOOD CONTROL DISTRICT	SANTA CLARA RIVER	11 6 66	TO DATE
1175	DOUGLAS WHITE OAKS PARK	1120	VENTURA COUNTY FLOOD CONTROL DISTRICT	ARROYO SIMI	7/1966	TO DATE
1176B	PIRU 3 SSE	2620	VENTURA COUNTY FLOOD CONTROL DISTRICT	SANTA CLARA RIVER	7/1966	TO DATE
1177	BARD RESERVOIR	1030	VENTURA COUNTY FLOOD CONTROL DISTRICT	ARROYO SIMI	3/1966	TO DATE
1182	FISH CREEK	1670	CALIFORNIA - DEPARTMENT OF WATER RESOURCES	SANTA CLARA RIVER	11/1966	TO DATE

LEGEND

(1) HOURLY AMOUNTS PUBLISHED BY THE UNITED STATES WEATHER BUREAU.
(2) DISTRICT HAS INCOMPLETE FILE OF CHART RECORDS.
(3) DISTRICT IS CUSTODIAN OF THE CHART RECORDS. FOR ALL OTHER STATIONS, THE OWNER HAS CUSTODIAL RESPONSIBILITY.

TABLE X

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

COMPARATIVE MAXIMUM RAINFALL DEPTHS IN INCHES

SEASONS 1967-68, 1968-69 AND MAXIMUM OF RECORD FOR SELECTED STATIONS

DURATION		STATION NO. 352B LECHUZA PATROL STATION			STATION NO. 228B BEVERLY HILLS – CITY HALL			STATION NO. 716 LOS ANGELES – DUCOMMUN STREET			STATION NO. 92 CLAREMONT – POMONA COLLEGE			STATION NO. 444F-E ROLLING HILLS – SOUTH COAST BOTANIC GARDENS		
		1967-1968	1968-1969	MAXIMUM OF RECORD	1967-1968	1968-1969	MAXIMUM OF RECORD	1967-1968	1968-1969	MAXIMUM OF RECORD	1967-1968	1968-1969	MAXIMUM OF RECORD	1967-1968	1968-1969	MAXIMUM OF RECORD
5 MIN.	AMOUNT	.20	.25	.38	.43	.24	.43	.42	.10	.44	.26	.14	.40	.10	.20	.30
	DATE	11/20/67	1/19/69	1/30/66	11/19/67	1/21/69	11/19/67	11/19/67	1/25/69	1/14/08	11/19/67	2/24/69	12/6/46	11/21/67	1/20/69	11/15/52
10 MIN.	AMOUNT	.40	.35	.50	.60	.26	.60	.75	.19	.75	.40	.26	.46	.20	.33	.45
	DATE	11/20/67	1/19/69	12/18/40	11/19/67	1/21/69	11/19/67	11/19/67	1/25/69	11/19/67	11/19/67	2/24/69	12/6/46	11/21/67	1/20/69	11/5/60
15 MIN.	AMOUNT	.62	.50	.70	.74	.30	.74	1.05	.27	1.05	.50	.27	.50	.26	.39	.56
	DATE	11/20/67	1/19/69	12/18/40	11/19/67	1/20/69	11/19/67	11/19/67	1/25/69	11/19/67	11/19/67	2/24/69	11/19/67	11/21/67	1/20/69	11/5/60
30 MIN.	AMOUNT	1.10	.90	1.10	.86	.42	1.15	1.51	.37	1.51	.76	.31	.76	.33	.62	.67
	DATE	11/20/67	1/19/69	11/20/67	11/19/67	1/19/69	2/23/57	11/19/67	1/20/69	11/19/67	11/19/67	2/24/69	11/19/67	3/7/68	1/20/69	11/5/60
1 HR.	AMOUNT	1.60	1.70	1.70	1.32	.71	1.59	1.87	.65	1.87	.92	.52	1.00	.58	1.10	1.10
	DATE	11/20/67	1/19/69	1/19/69	11/21/67	1/19/69	2/23/57	11/19/67	1/20/69	11/19/67	11/19/67	2/24/69	1/6/59	3/7/68	1/20/69	1/20/69
2 HRS.	AMOUNT	2.46	3.04	3.04	1.69	1.08	2.43	2.07	1.05	2.07	1.30	.79	1.63	.93	1.65	1.65
	DATE	11/20/67	1/19/69	1/19/69	11/21/67	1/25/69	2/13/54	11/19/67	1/20/69	11/19/67	3/8/68	1/25/69	12/31/33	3/7/68	1/20/69	1/20/69
3 HRS.	AMOUNT	3.00	3.87	3.87	2.09	1.32	3.12	2.10	1.50	2.28	1.72	.94	2.27	1.35	1.83	1.83
	DATE	3/7/68	1/19/69	1/19/69	11/21/67	1/19/69	2/13/54	11/19/67	1/25/69	2/18/14	3/8/68	1/25/69	12/31/33	3/7/68	1/20/69	1/20/69
4 HRS.	AMOUNT	3.36	4.75	4.75	2.41	1.57	3.65	2.12	1.85	2.71	2.05	1.32	2.96	1.66	2.00	2.04
	DATE	3/7/68	1/19/69	1/19/69	3/7/68	1/19/69	2/13/54	11/19/67	1/25/69	1/26/56	3/8/68	1/25/69	1/22/43	3/7/68	1/20/69	2/19/58
5 HRS.	AMOUNT	3.76	5.18	5.18	2.84	2.02	3.96	2.16	2.04	3.06	2.18	1.46	3.23	1.97	2.15	2.35
	DATE	3/7/68	1/19/69	1/19/69	3/7/68	1/19/69	2/13/54	11/19/67	1/25/69	3/2/38	3/8/68	1/25/69	1/22/43	3/7/68	1/20/69	1/26/56
12 HRS.	AMOUNT	5.81	6.87	6.92	4.46	3.52	5.31	2.91	3.11	5.02	3.20	2.79	5.26	2.84	3.48	4.22
	DATE	3/7/68	1/19/69	1/21/43	3/7/68	1/19/69	3/1-2/38	3/7/68	1/24/69	1/26/56	3/7/68	1/25/69	1/26/56	11/20/67	1/19/69	1/26/56
24 HRS.	AMOUNT	6.20	7.88	9.85	5.01	4.73	8.46	3.58	4.49	7.36	3.60	5.16	7.92	3.92	4.15	6.56
	DATE	3/7/68	1/18/69	1/21/43	11/20/67	1/24/69	12/31/33-1/1/34	11/20/67	1/24/69	12/31/33	3/7/68	1/24/69	12/31/33	11/20/67	1/19/69	1/25/56
STORM TOTAL	AUTO. RECORDING	9.50	22.86	22.86	7.40	15.74	15.74	7.90	13.18	13.18	4.26	12.23	12.23	4.87	13.32	13.32
	STANDARD	8.92	21.04	21.04	7.40	15.75	15.75	7.93	13.31	13.31	4.26	12.37	12.37	4.89	12.26	12.26
	DATE	11/18-22/67	1/18-26/69	1/18-26/69	11/19-21/67	1/18-26/69	1/18-26/69	11/19-21/67	1/18-26/69	1/18-26/69	11/19-21/67	1/18-26/69	1/18-26/69	11/19-22/67	1/18-26/69	1/18-26/69

DURATION		STATION NO. 466B PACOIMA CYN. – DUTCH LOUIE CYN.			STATION NO. 578-E CAMP HI HILL (OPID'S)			STATION NO. 303F PASADENA – CAL. TECH			STATION NO. 517B ANDERSEN RANCH			STATION NO. 425B-E SAN GABRIEL DAM		
		1967-1968	1968-1969	MAXIMUM OF RECORD	1967-1968	1968-1969	MAXIMUM OF RECORD	1967-1968	1968-1969	MAXIMUM OF RECORD	1967-1968	1968-1969	MAXIMUM OF RECORD	1967-1968	1968-1969	MAXIMUM OF RECORD
5 MIN.	AMOUNT	.41	.20	.41	.40	.16	1.17	.55	.15	.55	.42	.10	.42	.23	.18	.60
	DATE	11/19/67	2/25/69	11/19/67	11/19/67	2/24/69	4/5/26	11/19/67	1/21/69	11/19/67	2/29/68	2/25/69	2/29/68	11/19/67	1/25/69	4/5/26
10 MIN.	AMOUNT	.70	.31	.70	.52	.31	1.18	.70	.20	.70	.52	.13	.52	.34	.33	.62
	DATE	11/19/67	2/25/69	11/19/67	11/19/67	2/24/69	4/5/26	11/19/67	1/21/69	11/19/67	2/29/68	1/21/69	7/29/68	11/19/67	1/25/69	4/5/26
15 MIN.	AMOUNT	.93	.38	.93	.70	.47	1.18	.71	.26	.71	.58	.24	.73	.37	.47	.68
	DATE	11/19/67	2/25/69	11/19/67	11/19/67	2/24/69	4/5/26	11/19/67	1/25/69	11/19/67	7/29/68	1/21/69	7/18/46	11/19/67	1/25/69	4/5/26
30 MIN.	AMOUNT	1.00	.50	1.00	1.04	.75	1.52	.71	.48	1.08	.74	.37	1.23	.48	.78	.96
	DATE	11/19/67	1/25/69	11/19/67	11/19/67	1/25/69	4/5/26	11/19/67	1/25/69	3/3/48	7/29/68	1/21/69	7/18/46	3/8/68	1/25/69	4/5/26
1 HR.	AMOUNT	1.13	.95	1.13	1.23	1.45	2.21	1.00	.79	1.70	.76	.66	1.78	.65	1.54	1.54
	DATE	11/19/67	1/25/69	11/19/67	11/19/67	1/25/69	4/5/26	3/8/68	1/25/69	3/3/43	7/29/68	1/21/69	7/18/46	3/8/68	1/25/69	1/25/69
2 HRS.	AMOUNT	1.55	1.57	2.00	1.55	2.55	3.83	1.30	1.30	2.36	.77	1.05	2.26	1.14	2.49	2.49
	DATE	11/19/67	1/25/69	1/22/43	11/19/67	1/25/69	4/5/26	3/8/68	1/25/69	3/3/43	7/29/68	1/21/69	7/18/46	3/8/68	1/25/69	1/25/69
3 HRS.	AMOUNT	2.10	2.25	2.71	2.60	3.60	4.95	1.54	1.90	3.02	.82	1.41	2.26	1.42	3.42	3.42
	DATE	11/19/67	1/25/69	1/21/43	11/19/67	1/25/69	3/2/38	3/8/68	1/25/69	12/31/33	11/19/67	1/21/69	7/18/46	3/8/68	1/25/69	1/25/69
4 HRS.	AMOUNT	2.53	2.67	3.33	2.98	4.65	6.16	1.76	2.36	3.80	.86	1.75	2.27	1.88	4.51	4.51
	DATE	11/19/67	1/25/69	1/21/43	11/19/67	1/25/69	3/2/38	3/8/68	1/25/69	12/31/33	11/19/67	1/21/69	7/18/46	3/8/68	1/25/69	1/25/69
5 HRS.	AMOUNT	2.82	3.06	3.90	3.29	5.55	7.24	2.00	2.64	4.55	1.18	2.02	2.32	2.20	5.24	5.30
	DATE	11/19/67	1/25/69	1/21/43	11/14/67	1/25/69	3/2/38	3/8/68	1/25/69	12/31/33	11/19/67	1/21/69	1/5/39	3/8/68	1/25/69	1/22/43
12 HRS.	AMOUNT	4.37	5.50	6.02	6.47	11.16	13.38	2.96	4.65	7.98	2.34	3.90	4.12	3.43	9.29	10.35
	DATE	11/18/67	1/24/69	1/21/43	11/19/67	1/25/69	3/2/38	3/7/68	1/24/69	12/31/33	11/19/67	2/24/69	1/26/56	3/7/68	1/25/69	1/22/43
24 HRS.	AMOUNT	4.82	8.26	11.00	8.45	15.36	21.68	3.37	6.15	11.26	3.18	6.36	6.36	3.89	12.69	17.81
	DATE	11/18/67	1/24/69	1/21/43	11/18/67	1/24/69	1/22/43	3/7/68	1/24/69	12/31/33	11/18/67	2/24/69	2/24/69	3/7/68	1/24/69	1/22/43
STORM TOTAL	AUTO. RECORDING	8.88	23.75	23.75	13.22	44.41	44.59	6.56	16.92	16.92	5.41	11.49	11.49	5.46	34.07	34.07
	STANDARD	8.80	23.20	23.20	13.95	45.17	45.23	6.68	17.41	17.41	5.59	13.35	13.35	5.66	34.17	34.17
	DATE	11/19-21/67	1/18-26/69	1/18-26/69	11/18-21/67	1/18-26/69	1/18-26/69	11/18-21/67	1/18-26/69	1/18-26/69	11/18-22/67	1/18-26/69	1/18-26/69	11/19-22/67	1/18-26/69	1/18-26/69

LEGEND

DATE – INDICATES BEGINNING OF PERIOD

NOTE: RAINFALL DEPTHS IN INCHES ARE TAKEN FROM RECORDING RAIN GAGES EXCEPT WHERE INDICATED AS STANDARD AMOUNT.
REFER TO TABLE PAGE FOR PERIOD OF AUTOMATIC RAIN GAGE RECORD.

TABLE XI

SEASONAL 1967-68 DAILY RAINFALL FOR SELECTED STATIONS

RAINFALL RECORDS IN INCHES

STA. NO.	STATION		OCTOBER	NOVEMBER										DECEMBER													
				14	16	17	18	19	20	21	22	28	29	30	1	5	6	7	8	9	13	14	15	16	17	18	19	20	21	22
6	TOPANGA	F						1.87	.87	3.30	1.42			1.52				.02								2.07	.28			
15B	VAN NUYS	C						1.26	.63	3.77	.94			.38				.06								.99	.20			
32C-E	NEWHALL	D					.01	3.08	.75	1.98	1.47	.01		.68												.96	.39			
33A-E	PACOIMA DAM	F						1.66	1.53	1.96	.84			.97												.60	.46			
57B-E	CAMP HI HILL (OPID'S)	F						7.86	2.10	3.51	.48	.19		2.23		.02		.03	.06					.03	.04	1.56	1.05			
85G	MT. BALDY	B						1.20	4.04	.38	1.09	.17	.28	.02	1.60				.16	.05							.06	2.29	.49	.03
106C	WHITTIER	F						.92	.45	1.86		.02		.88			.02		.03						.05	1.79	.39			
130B	SANDBERG'S	D		T	T		T	2.82	2.43	2.13	.33	.02		.62		.02		.01	T			T	.18			.22	.18	.09		
135	GLENDORA	F						2.84	.85	3.21	.02	.10		.85			.01	T	.05						.02	1.02	.76	.01		
241C	LONG BEACH	F						.43	.24	4.73	.54			.09					22*							.09*	.34*	.19*		
256C	POMONA	A						2.50	1.71	.46	.75		.12	.79					.08						.03		1.58	.44		
283C	CRYSTAL LAKE	F						7.19	1.52	1.52	.07	.15		1.07							T	.02	.02	.12		1.44	1.20	.04		
321-E	PINE CANYON	D						4.09	1.22	1.74		.36		1.40	.10								22			.84	.23	.05		
425B-E	SAN GABRIEL DAM	F						3.23	.82	1.44	.17	.08		1.68				T							.05	1.24	.56			
440C	CHILAO	B						2.22	5.11	2.10	1.80	.02			.41	T			T		T		.02	.11	T	.22	1.13	.37		
455B	LANCASTER	F				.48	.40	.24	.55	1.47				.41												.45				
478	VALYERMO	F					.12	2.35	.54	1.10	.25	.13		.10							.01	.16	.48			.50	.15			
610B	PASADENA	D			.04			3.67	1.57	2.22	.18	.10		.65			T		.03						.03	1.00	.45			
634C	SANTA MONICA	E					.76	.04	.21	2.79	.99	T		1.52		.05		.04	.17					T		1.85	.31			
716	LOS ANGELES	F						3.44	.69	3.32	.48	T		.71		.02	T	.10								1.35	.26			

STA. NO.	STATION		JANUARY										FEBRUARY													
			2	3	10	11	16	26	27	28	29	31	9	10	11	12	13	14	16	17	18	19	20	21	25	27	28
6	TOPANGA	F			.08	.21			.58	.03		.34	.25				.29			.25							
15B	VAN NUYS	C			T	.17			.35			.26		.16			.40	.10		.13							
32C-E	NEWHALL	D				.01			.39	.11		.22	.32	.16			.15			.16							
33A-E	PACOIMA DAM	F	T		.06	.08		T	1.01	.04		.45	.55	.40			.01	.02		.12	.01				.02		
57B-E	CAMP HI HILL (OPID'S)	F	T		.27	.25		T	2.02	.29		.36	.71	.33		T	.81	.42		.25							
85G	MT. BALDY	B		.12	.10				1.23	1.00	.07	.21	.30	.60			.60	.94		.13							
106C	WHITTIER	F				.05			.08	.22		.16	.20	.10			.11	.31		.05				.03			
130B	SANDBERG'S	D			T	T	.02	.03	.30	.09		.03	.49	.17		.03	.82			.26							
185	GLENDORA	F		.18	.02	.19	T		.55	.44		.18	.23	.15			.36	.82		.03	.04		T	T		.06	.02
241C	LONG BEACH	F				.15			.06	.12		.24	.06				.10	.22		.05							
256C	POMONA	A		.05		.12				.83		.11	.06				.14	.55			.01						
283C	CRYSTAL LAKE	F			.02	.11			1.84	.70		.17	.88	.81			1.30	.65		.16							
321-E	PINE CANYON	D							1.10	.14		.13	.40	.15			.20	.07		.17							
425B-E	SAN GABRIEL DAM	F		.04	.02	.09			.73	.68		.20	.33	.17			.63	.36		.03			T				
440C	CHILAO	B			T	.24			.74	.67		.11	.15	.67	T		.31	.30		.02	.08						
455B	LANCASTER	F							.28			.03	.22	.12					.12								
478	VALYERMO	F							.23				.57	.17		.02	.06		.03	.05							
610B	PASADENA	D	T		T	.11			.48	.28		.14	.40	.10			.29	.08		.07						.03	
634C	SANTA MONICA	E			.04	.08			.31	.28		.11	.16	T		T	.12			.13						T	
716	LOS ANGELES	F				.08			.27	.28		.29	.09			.16	.10	.09				.06					

STA. NO.	STATION		MARCH										APRIL							MAY								
			1	6	7	8	9	10	13	14	16	17	18	1	2	3	16	17	18	27	2	7	8	11	12	13	14	21	22
6	TOPANGA	F			.35	5.16			.40			.07		.83	.25					.03				.01					
15B	VAN NUYS	C			.04	2.30	.02		.28			.05*		.59															
32C-E	NEWHALL	D			.16	1.99			.22			.11		.58	.25										.03	.03			
33A-E	PACOIMA DAM	F			.22	2.65			.30		.07	.26		.42	.21											T			
57B-E	CAMP HI HILL (OPID'S)	F		.05	.29	3.51			.37		T	.10		1.20	.31		T						T		.03	.05			
85G	MT. BALDY	B			.10	3.08	.17			.27		.21			1.29	.20		.01	.24						.20	.18	.01		
106C	WHITTIER	F		.60	.03	2.25			.18		.05			.13	.60														
130B	SANDBERG'S	D		T	.36	1.04	.22	.06	.33	.02		T	T	.77	.34										T	T			
185	GLENDORA	F		T	.22	3.27			.14			.09		.30	.56		.05	.01			T			T	.01	.02		.03	
241C	LONG BEACH	F			.04	2.24			.40					.34	.04														
256C	POMONA	A				4.15	.13					.16			.54				.04			.01							
283C	CRYSTAL LAKE	F			.14	2.11			.25			.11	T	.76	.39			.01	.04						.12	.09			
321-E	PINE CANYON	D			.12	1.53	.14		.27	.19		.04		.96	.08	T									T				
425B-E	SAN GABRIEL DAM	F		.55	.19	2.74			.16	.04		.06		.67	.67			T						T	.05	.11			.02
440C	CHILAO	B		T		1.86	.03			.11		.05			.85										.01	T			
455B	LANCASTER	F				.50			.09					16															
478	VALYERMO	F	.02		.04	.50					.02			.51															
610B	PASADENA	D		.07	.08	2.90			.17			.11		.39	.24		T				T				.08	.01		.02	
634C	SANTA MONICA	E			.16	4.77			.18			.11		.41	.06											T		.01	
716	LOS ANGELES	F			.01	2.97			.26			.06		.27	.22														

STA. NO.	STATION		JUNE								JULY						AUGUST						SEPTEMBER				
			5	6	7	8	9	24	25	29	6	7	27	28	29	30	6	7	17	20	26	30	3	14	15	29	
6	TOPANGA	F																.46									
15B	VAN NUYS	C																.36									
32C-E	NEWHALL	D															.32										
33A-E	PACOIMA DAM	F							T									.12					.03				
57B-E	CAMP HI HILL (OPID'S)	F			T								T	T	.05			.05									
85G	MT. BALDY	B			T	.13	.02				.11			.01	1.34												
106C	WHITTIER	F												.24													
130B	SANDBERG'S	D									T				.05	.01											
185	GLENDORA	F	.04		.07		.01	T		.06		T	T	.03	T			.01	.02	T			T		T	T	
241C	LONG BEACH	F																									
256C	POMONA	A			.01								.05														
283C	CRYSTAL LAKE	F	T	T	.03	.06	.03						T	T	.36	.51		T	.01		T	T					
321-E	PINE CANYON	D																									
425B-E	SAN GABRIEL DAM	F	.05		.04	T	.01			.04		T	T	.03					T				T		.03		
440C	CHILAO	B													T			.29									
455B	LANCASTER	F													.22		.30										
478	VALYERMO	F												.09	1.42			.07									
610B	PASADENA	D	T		T					.07				.01													
634C	SANTA MONICA	E							T									.11							T		
716	LOS ANGELES	F			.01									T				.12									

LEGEND

A - - - - - - - 7:30 A.M. GAGE READING
B - - - - - - - 8:00 A.M. GAGE READING
C - - - - - - - 2:00 P.M. GAGE READING
D - - - - - - - 4:00 P.M. GAGE READING
E - - - - - - - 4:30 P.M. GAGE READING
F - - - - - - - 5:00 P.M. GAGE READING

NOTE: FOR MONTHLY AND SEASONAL TOTALS SEE TABLE PAGE
NO RAINFALL ON DATES NOT SHOWN
* ESTIMATE = 10% OF TOTAL
** ESTIMATE = 10% OF TOTAL

TABLE XII

SEASONAL 1968-69 DAILY RAINFALL FOR SELECTED STATIONS

RAINFALL RECORDS IN INCHES

STA. NO.	STATION		OCTOBER 1	2	3	4	9	14	15	30	31	NOVEMBER 3	4	7	13	15	16	25
6	TOPANGA	F						.74		.25						.49	.04	
15B	VAN NUYS	C						.26		.18						.37		
32C-E	NEWHALL	D			.01			.27		.05		.01				.29		
33A-F	PACOIMA DAM	F			.03			.27		.20		T				.38		
57B-F	CAMP HI HILL (OPID'S)	F			.10	.02		.31		.22		.08	.05	T		.88	.15	
85G	MT. BALDY	B			.20	.05		.06	.07	.29			T			.64	.22	
106C	WHITTIER	F			.05	.02		.03		.17			.04			.29	.01	
130B	SANDBERG'S	D			.02			.41		.15			.01			.32	T	.02
185	GLENDORA	F			.14	.01		.01		.28			.02		T	.58	.02	
241C	LONG BEACH	F						.21		.17			.16			.26		
256C	POMONA	A			.34					.25	.04					.36	.11	
283C	CRYSTAL LAKE	F			.04	.02	T	.32		.10			.04			.72		
321-E	PINE CANYON	D			.02			.26								.63		
425B-E	SAN GABRIEL DAM	F			.16	.03	T	.04		.09		T				.68	.02	
440C	CHILAO	B			.03	.13		.04		.24			.03			.39	.04	
455B	LANCASTER	F	.04	.02												.69		
478	VALYERMO	F		.10	.04			.03		.06						.10		
610B	PASADENA	D			.04	.02		.05		.24			.03			.54	.06	
634C	SANTA MONICA	F			.20			.17		.30						.36	.03	
716	LOS ANGELES	F			.18			.05	.03	.26	.01		.06			.25	.07	

STA. NO.	STATION		DECEMBER 11	14	15	16	17	20	21	25	26	27	28	29	JANUARY 13	14	15	18	19	20	21	22	23	24	25	26	27	28	29
6	TOPANGA	F	.25		.09	.04		.02		1.20	.25		.05		.14	2.60		.25	3.28	6.04	2.80	.68		2.32	9.42	2.46		1.39	.04
15B	VAN NUYS	C	.13			.29				.58	.11				.88			.09	.80	2.21	2.59	1.55	.01	.63	3.47	1.76		.19	
32C-E	NEWHALL	D	.12		.17	.11		.03		.30	.31			.02	.01	.94		.13	3.92	1.66	3.16	.24		1.40	5.02	1.97	.03	.09	.07
33A-F	PACOIMA DAM	F	.24	T	.10	.27		.04		.70	.24			T	.05	1.22		.19	1.16	1.85	2.94	.52	.07	1.81	4.96	1.57		.21	
57B-F	CAMP HI HILL (OPID'S)	F	.31		.32	.36		.17		1.35	.62				.11	2.44		.20	2.78	5.40	10.07	2.56	.06	2.99	15.56	5.55		.52	.04
85G	MT. BALDY	B	.22		.08	.11	.06	.12	.05	.06	1.95	.03			.03	1.76	.19		1.18	2.58	10.36	6.82	.56	.86	11.04	10.58	5.26		.68
106C	WHITTIER	F	.09			.17		.07		.60	.32			T	.10	1.34		.10	1.14	2.77	1.79	.08		1.34	4.08	.68		.34	.05
130B	SANDBERG'S	D						.11			.53				.02	.41		.05	1.23	1.58	3.31		.03	.60	2.93	1.08		.08	.04
185	GLENDORA	F	.06		.04	.18		.18		.43	.41				.10	1.60		.10	1.35	2.53	2.30	2.10	T	1.87	6.08	1.55		.38	
241C	LONG BEACH	F	.30			.18		.05		.87	.23			.02	.16	1.57		.15	1.25	2.24	.41	.09	T	1.47	1.69	.28		.35	.15
256C	POMONA	A						.06		.46	.45					1.35	.09		.99	1.78	1.75	.40	.02	1.60	3.09	2.55	.08		.30
283C	CRYSTAL LAKE	F	.29		.16	.56	.05	.19		1.28	.47	.01	T		.18	1.91		.20	1.93	3.68	8.11	1.28		2.29	11.43	9.05		.36	.04
321-E	PINE CANYON	D	.08		.35	.18		.01		.56	.15				.02	.65		.05	1.08	2.21	3.83	.55		.70	6.01	3.10		.41	
425B-F	SAN GABRIEL DAM	F	.20		.04	.13		.02		.63	.54				.09	1.98		.13	1.86	3.73	5.36	5.00	.01	2.41	12.14	3.41		.57	
440C	CHILAO	B	.14		.08	.23	.03	.08	.14	.24	.96					1.02			.73	1.83	5.89	.65	.10	.73	5.09	3.44	1.51		.42
455B	LANCASTER	F									.18					.32			.73	.66	.11		.04	.62	.79	.12			.02
478	VALYERMO	F						.00			.25					.11			.78	1.15	1.62		.03	.48	2.55	.22		.08	
610B	PASADENA	D	.11		.04	.26		T		.25	.24			.01	.05	1.48	T	.04	1.11	2.28	2.65	1.37	T	1.26	4.62	1.61		.37	T
634C	SANTA MONICA	E	.17		.02	.15		.09		.65	.22			.03	.14	1.31		.18	1.47	4.62	1.30	.08		1.49	2.75	.55		.23	
716	LOS ANGELES	F	.10			.22		.04		.31	.69			.02	.06	1.41		.10	1.05	3.93	1.42	.10		1.44	4.38	.97		.32	

STA. NO.	STATION		FEBRUARY 4	5	6	7	11	12	13	14	15	16	18	19	20	21	22	23	24	25	26	27	28
6	TOPANGA	F		1.29	1.85			.20			1.14		.28				.95	3.23	.83	1.58			.66	
15B	VAN NUYS	C		1.11	2.47		.06							.14			.90	2.10	1.14	2.69			.97	
32C-F	NEWHALL	D		.33	2.72			.10			.37		.36	.07			.76	2.74	.93	3.13	.01		.32	
33A-E	PACOIMA DAM	F		.26	1.20			.04			.29		.49	.11	.01		.70	2.02	1.41	2.68	.03		.21	
57B-E	CAMP HI HILL (OPID'S)	F		1.36	4.25			.02			.99	.66	.78	.48	.13		.89	4.30	6.92	9.80	.07		.43	
85G	MT. BALDY	B		1.25	3.96	.70						1.64	.55	.21	.69		.75	.18	7.47	9.35				
106C	WHITTIER	F		.55	1.15			.01			.02	.39	.42	.08			.64	1.57	1.15	2.06			.17	
130B	SANDBERG'S	D		.45	1.54	.10	.09	.05			.40	.08	.42		.16		.43	1.80	1.55	2.61			.44	
185	GLENDORA	F		.43	2.09			T		T	.48	.44	.45	.58	.45	.01	.74	1.64	1.73	3.82	.02		.32	
241C	LONG BEACH	F		.13	.63	.01		.01			.20		.26	.30			.50	.71	.93	.90			.07	
256C	POMONA	A		.66	1.68						.82		.17	.59		.13	.63	1.87	1.80	2.05				
283C	CRYSTAL LAKE	F		1.62	4.19			.02			.54	.22	.39	.31	.29		1.02	4.45	3.95	8.08	.38		.35	
321-E	PINE CANYON	D		.56	3.05	.01		.08			1.16	.26	.27	.11	.17		.50	2.97	2.50	6.21			.64	
425B-F	SAN GABRIEL DAM	F		.98	3.56			T			.94	.46	.41	.33	.30		.80	3.49	3.09	6.35	.02		.36	
440C	CHILAO	B		.78	3.77			.02			.63		.72					1.46	4.62	6.83			.20	
455B	LANCASTER	F	.14	.47	.14		.02			.03			.22			.19		.67	.84	.07		.05		
478	VALYERMO	F		.32	1.51								.47				.40	.80	1.61	4.37			.06	
610B	PASADENA	D		1.01	1.90				.02		.36	.63	.46	.27	.08		.72	1.69	1.66	2.25	T		.16	
634C	SANTA MONICA	E		.29	1.28			T			.65	.31	.13	T	.11		.65	1.18	.44	.74	T		.14	
716	LOS ANGELES	F		.74	1.10			.01	.09			1.06	.41		.29		.60	1.89	.57	1.33			.29	

STA. NO.	STATION		MARCH 1	3	4	7	8	9	10	11	12	13	14	21	22	APRIL 2	3	4	5	6	9	10	14	18	22	23	24
6	TOPANGA	F	.15						.23	.14				.35			.26		.48	.11							
15B	VAN NUYS	C	.02						.28			T		.25		.13	.02			.38							
32C-E	NEWHALL	D							.30	.02				.38			.47		.41	.11							
33A-E	PACOIMA DAM	F	.16	T			.02	.02	.52			T		.77			.54		.78	.13		T			T		
57B-E	CAMP HI HILL (OPID'S)	F	.15						.53			.31		.82	.22		1.26		.67	.55		.07				T	
85G	MT. BALDY	B	.68						.69	.37			.03		.78		1.34			1.06		.05					
106C	WHITTIER	F	.16				.05		.16			.05		.57	.18		.33			.44		.02					
130B	SANDBERG'S	D				.17			.06			.15		.13			.29		.53	.15				T			
185	GLENDORA	F	.59	.02					.75	.03		.12		.54	.20		.53	.01	.40			.19			.02		
241C	LONG BEACH	F	.13						.08			.31		.30			.11		.09	.04							
256C	POMONA	A							.39	.25				.54			.36			.34		.07					
283C	CRYSTAL LAKE	F	.23						.15	.82		.11	.05	.83	.15		.65		.50	.83		.19	T				T
321-E	PINE CANYON	D		.10				.10	.08					.25	.04		.48		.75	.58							
425B-E	SAN GABRIEL DAM	F	.30						1.02			.18		.70	.23		.76		.16	.56		.26					
440C	CHILAO	B		T			.03	.14	.57		.10	.10		1.31			.75		.84	.01	.05	.15					
455B	LANCASTER	F						.08									.18		.25								
478	VALYERMO	F				.02			.11			.07		.08			.20		.58			.35					
610B	PASADENA	D	.30				.12		.43			.02		.70	.95		.27		.07	.48		.07					
634C	SANTA MONICA	E							.22	.14		.05		.40			.23		.11	.33		T					
716	LOS ANGELES	F	.39						.24			T		1.23			.28		.30	.07		.01					

TABLE XII (Continued)

SEASONAL 1968-69 DAILY RAINFALL FOR SELECTED STATIONS

RAINFALL RECORDS IN INCHES

STA. NO.	STATION		MAY										JUNE											
			3	4	5	6	7	8	10	11	23	31	8	9	10	11	12	13	15	16	17	21	24	25	26
6	TOPANGA	F		.05																					
15B	VAN NUYS	C			.05																				
32C-E	NEWHALL	D			.02	.02															.04				
33A-E	PACOIMA DAM	F		.02	T	T							T							.08	.15	.02			
57B-E	CAMP HI HILL (OPID'S)	F		.05	.11	.07	.03							T	T	T	T		T	T	T				
85G	MT. BALDY	B		.23	.37	.58	.15			.09						.04	.03	T							
106C	WHITTIER	F			T	T																	.01		
130B	SANDBERG'S	D		.27																.30					
185	GLENDORA	F		.07	.02	.12							.02	T		.02				.02	.09		.12	.01	.02
241C	LONG BEACH	F		.04																					
256C	POMONA	A				.08																			
283C	CRYSTAL LAKE	F		.43	.39	.52		.02													.06				
321-E	PINE CANYON	D		.18	.09	.03															.04				
425B-E	SAN GABRIEL DAM	F	.01	.13	.02	.18	.01						.03			.03	.01						.01		
440C	CHILAO	B	T	.22	.16	.10	.02		T										.02						
455B	LANCASTER	F	.06	.06															.01	.06					
478	VALYERMO	F		.21			.11		.05																
610B	PASADENA	D		.05	.05	.04							.01			.03				.07	.14	T			
634C	SANTA MONICA	E		T		.01					T	T													
716	LOS ANGELES	F			.02	T																			

STA. NO.	STATION		JULY									AUGUST				SEPTEMBER			
			6	7	10	11	12	13	18	27	28	1	2	5	10	6	7	21	29
6	TOPANGA	F				.17	.01												
15B	VAN NUYS	C				.40													.03
32C-E	NEWHALL	D				.10	.05												
33A-E	PACOIMA DAM	F		T		.07	.05									T			
57B-E	CAMP HI HILL (OPID'S)	F				.27	.11												
85G	MT. BALDY	B					.21		.03	.11	.02								
106C	WHITTIER	F				.1													
130B	SANDBERG'S	D				.09		.04											T
185	GLENDORA	F		T		.08	.02			T						T			
241C	LONG BEACH	F																	
256C	POMONA	A					.04				.02								
283C	CRYSTAL LAKE	F					.11			.10	.02				T	.04			
321-E	PINE CANYON	D					.40			.15									
425B-E	SAN GABRIEL DAM	F				.02				.02			.05						
440C	CHILAO	B					.32			.02		.13						T	
455B	LANCASTER	F			.04														
478	VALYERMO	F				.03				.11						.01			
610B	PASADENA	D		T		.01	T									T			
634C	SANTA MONICA	E				.55								T			T		T
716	LOS ANGELES	F				.03													T

LEGEND

A - - - - - - 7:30 A.M. GAGE READING
B - - - - - - 8:00 A.M. GAGE READING
C - - - - - - 3:00 P.M. GAGE READING
D - - - - - - 4:00 P.M. GAGE READING
E - - - - - - 4:30 P.M. GAGE READING
F - - - - - - 5:00 P.M. GAGE READING

NOTE: FOR MONTHLY AND SEASONAL TOTALS SEE TABLE PAGE
NO RAINFALL ON DATES NOT SHOWN
*ESTIMATE = 10% OF TOTAL
**ESTIMATE = 10% OF TOTAL

TABLE XIII

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1967-68

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
2B	ESCONDIDO CANYON	0	8.82	1.79	1.57	.89	5.56	.55	0	0	—	.03	0	19.22
3D	SEMINOLE HOT SPRINGS	0	11.25*	1.95*	1.56*	.85	5.31	.05	0	0	0	0	0	21.99*
4C	MALIBU LAKESIDE	0	11.83	2.06	1.61	.95	5.06	.79	0	0	0	.30	0	22.50
5B	CALABASAS	0	9.07	1.03	1.42	.79	4.35	.51	.06	0	0	.41	0	18.44
6	TOPANGA CANYON PATROL STATION	0	8.08	2.37	1.24	.79	5.98	1.98	.01	0	0	.46	0	20.91
9B	SEPULVEDA & RAYEN	0	7.05	1.01	1.05	1.01	2.58	.50	T	0	0	.20	0	13.40
10B	BEL AIR HOTEL	0	8.96	2.24	1.09	.37	4.02	.58	0	0	0	.14	0	18.26
11C	UPPER FRANKLIN CANYON RESERVOIR	0	8.98	1.72	.91	.63	4.44	.74	.04	0	0	.20	0	17.04
12	FRANKLIN CANYON — MULHOLLAND HIGHWAY	0	8.46	1.57	.96	.55	4.10	.73	.04	0	0	.20	0	16.71
13B	NORTH HOLLYWOOD — HIX	0	8.93	2.05	1.03	.82	3.10	.50	T	0	.02	.12	0	16.57
14C	ROSCOE-MERRILL	0	7.12	1.43	.97	1.35	2.19	.79	.05	.02	T	.14	0	14.06
15B	VAN NUYS	0	6.90	1.25	.80	.79	2.09**	.59	0	0	0	.35	0	13.46**
17	SEPULVEDA CANYON — MULHOLLAND HIGHWAY	0	6.74	1.72	.80	.89	4.00	.78	0	0	0	.20	0	15.13
20B	GIRARD RESERVOIR	0	9.03	1.30	1.39	.71	3.77	.55	.04	0	T	.35	0	17.22
21	BRANT RANCHO — GIRARD	0	6.87	.87	.80	.75*	2.82	.45	0	0	0	.44*	0	11.99**
23B-E	CHATSWORTH RESERVOIR	0	6.13	1.87	1.04	.78	4.00	.65	.07	0	0	.30	0	14.91
24D	CHATSWORTH	0	7.72	1.64	1.23	.79	4.07	.74	.10	0	0	.28	0	16.29
25C	NORTHRIDGE — LOS ANGELES DEPT. WATER AND POWER	—	8.38	1.69	1.13	.60	3.53	.42	.10	0	—	.36	—	15.23
27B	PACOIMA — HA[illegible]TZ RANCH	0	5.47	.97	1.08	1.14	2.70	.46	T	0	0	.10	0	12.92*
28C	SAN FERNANDO	0	5.34	.97	.74	.96	2.69	.42	0	0	T	.11	—	12.23
29D	GRANADA HILLS	0	7.99	1.40	1.49	1.07	3.44	.57	—	0	.03	.19	.03	16.17
30E	SYLMAR	0	6.75	1.01	1.42	1.04	4.03	.57	.02	0	0	.10	0	14.40
31	ORCUTT RANCH	0	7.95	2.16	1.50	1.88	5.65	1.37	.06	0	0	.10*	0	20.39**
32C-E	NEWHALL-SOLEDAD DIVISION HEADQUARTERS	0	7.98	1.35	.78	.79	2.48	.49	.05	0	0	.32	0	14.54
33A-E	PACOIMA DAM	0	5.96	1.06	1.66	1.99	3.50	.63	T	T	0	.12	.03	15.91
39B	SUNSET DAM	0	7.47	1.05	1.06	1.60	2.33	.65	.13	.11	0	.05	0	14.45
42C	REDONDO BEACH — CITY HALL	0	5.05	1.22	.98	.22	1.84	.33	0	0	.01	0	0	9.65
43D	PALOS VERDES ESTATES	0	5.26	.99	.83	.27	1.51	.37	.02	0	0	0	0	9.08
44A	POINT VICENTE LIGHTHOUSE	0	6.64	.83	1.29	.14	1.71	.44	.05	0	.02	0	0	11.11
46D-E	BIG TUJUNGA DAM	0	10.19	2.12	1.80	1.86	3.02	1.19	.02	0	T	.07	0	20.27
47D	CLEAR CREEK — CITY SCHOOL	0	11.27	1.75	2.16	2.29	3.28	1.20	.07	T	.15	.15	0	22.32
48B	OAK WILDE	0	8.34	1.22	1.62	1.05	2.92	.66	.19	T	T	.21	0	17.03
50B	LA CANADA — ARROYO SECO	0	10.76	1.47	1.20	1.00	3.06	.79	.04	.03	0	.06	0	18.41
51	FALLING SPRINGS	0	10.51	2.20	2.20	3.25	2.63	1.01	.21	.20	.49	.02	0	22.72
52D	WATERMAN GUARD STATION	0	12.50	1.90	2.20	2.14	3.26	1.20	.05	0	.01	.16*	0	23.48**
53D	COLBY'S	0	12.08	1.76	1.69	1.84	2.81	1.27	0	0	.05	0	0	21.70
54C	LOOMIS RANCH — ALDER CREEK	0	9.12	1.22	1.43	.69	1.33	.84	0	0	.50	.12	0	15.45
57B-E	OPID'S (CAMP HI-HILL)	0	16.07	2.79	3.19	2.52	4.32	1.51	.06	T	.05	.05	0	30.88
58	STURTEVANT CAMP	0	10.83	2.40	3.32	1.93	4.53	1.32	.21	.26	T	.17	T	25.02
60A	HOEGEE'S	0	10.22	2.04	2.76	1.54	4.25	1.24	.32	.19	T	.31	.02	22.87
63C-E	SANTA ANITA DAM	0	6.95	1.57	1.35	1.25	3.75	.86	.17	.29	T	.14	.01	15.63
66	SIERRA MADRE — DEGLAR RANCH	0	5.69	1.46	.84	.90	3.35	.72	.09	.13	.06	.15	0	13.51
67F	MONROVIA — NEWS POST	0	6.35	1.49	.87	1.08	3.82	.56	.15	.13	.08	.14	0	14.96
68C	SAWPIT DAM	0	7.32	1.62	1.47	1.63	4.02	.79	.39	.49	T	.53	.02	18.34
70D	ROGER'S CANYON	0	4.99	1.66	1.39	1.53	3.97	1.09	.39	.06	T	.13	0	15.13
73	GLENDORA — ENGLEWILD RANCH	0	6.10	1.09	1.55	1.02	4.03	.55	.16	.27	.02	T	.05	15.75
76B	SAN GABRIEL DAM CAMP	0	7.55	2.13	1.56	1.67	4.32	1.26	.12	.12	.10	.05	0	19.00
78B	COLDBROOK RANGER STATION	0	9.19	2.10	2.88	2.81	2.74	1.01	.14	.24	.29	0	0	21.34
80B	PRAIRIE FORK	0	5.08	2.95	1.74	2.12	1.80	.79	0	.28	2.04	.02	0	16.79
81B	VINCENT GAP	0	7.87	4.30	2.40	3.79	2.24	1.54	0	0	1.55	.25	0	24.05
82F	TABLE MOUNTAIN	0	4.51	2.11	2.15	1.91	1.96	.59	T	0	.90	0	0	14.13
83B	BIG PINES RECREATION PARK	0	6.35	3.70	2.18	2.65	2.25	.96	T	0	.55	.01	0	18.65
85G	MT. BALDY GUARD STATION	0	7.18	4.69	2.73	2.57	3.83	1.74	.39	.15	1.66	0	0	24.74
87C	SAN DIMAS GUARD STATION	0	5.40	N.R.	N.R.	1.74	3.51	1.12	.06	.07	.09	0	.01	INC.
89B-E	SAN DIMAS DAM	0	6.36	1.73	1.40	1.49	3.63	1.12	.05	.09	.07	0	T	15.95
90	ELDER RANCH	0	6.29	1.53	1.23	1.60	3.98	1.20	.10	0	.08	0	0	16.01
91	INDIAN HILL — CLAREMONT	0	5.18	1.60	1.44	1.05	3.67	1.02	.09	.17	.19	0	0	14.25
92	CLAREMONT — POMONA COLLEGE	0	5.06	1.70	1.34	.96	3.76	.78	.06	.07	.42	0	0	14.15
93B	CLAREMONT POLICE STATION	0	5.04	1.71	1.47	1.13	3.53	.83	.10	.12	.35	.04	0	14.62
95	SAN DIMAS — FIRE WARDEN	0	5.43	2.60	1.26	1.06	3.68	.72	T	.18	.07	.01	0	14.93
96C-E	PUDDINGSTONE DAM	0	5.56	1.90	1.21	1.06	4.09	.71	.05	.06	.03	.02	0	14.71
99B	AZUSA — FOOTHILL RANCH	0	4.75	1.72	1.32	1.23	4.05	.87	.02	.05	.01	.10	0	14.16
101D	WEST COVINA	0	5.45	2.00	.70	.54	.30	T	.14	T	.05	.09*	0	9.31**
102C	WALNUT — PATROL STATION	0	4.09	3.89	1.04	.69	4.27	.67	0	0	.26	0	0	14.84
106C	WHITTIER CITY HALL	0	4.14	2.39	.46	.60	3.11	.73	0	0	.24	0	0	11.78
107C	DOWNEY — FIRE DEPARTMENT	0	5.33	2.18	.48	.23	2.25	.53	0	0	.16	0	0	11.46
108D	EL MONTE FIRE STATION	0	5.78	2.30	.59	.48	4.48	.78	—	0	.05	0	0	14.48
109C	WEST ARCADIA	0	7.83	1.55	.44	.73	4.02	.67	.02	.03	.07	.02	0	15.38
110B	ALHAMBRA	0	5.98	1.80	.85	.72	4.14	.58	—	.10	T	.02	0	14.21
111	SOUTH PASADENA — CITY HALL	0	7.38	1.49	.98	.72	4.20	.50	.01	.05	T	.08	0	15.49
116C	INGLEWOOD — FIRE STATION	0	6.47	1.55	.76	.43	4.01	.49	—	0	.01	0	0	13.73
117F	COMPTON — FIRE STATION	0	6.09	1.06	.65	.72	3.25	.47	0	0	.12	0	0	12.26
118C	WILMINGTON	0	5.11	1.20	.71	.66	2.00	.58	0	0	0	0	0	10.26
119G	SAWTELLE — SOLDIERS' HOME	0	7.19	2.17	1.11	.69	2.39	.45	0	0	0	.34	0	14.37
120	VINCENT PATROL STATION	0	4.06	.86	.23	.69	.04	.33	0	0	.03	1.10	0	7.34
122F	LEONIS VALLEY — RITTER RANCH	0	5.63	1.30	.84	.55	1.48	.75	.11	0	.01	.25	0	11.03
124B-E	BOUQUET CANYON RESERVOIR	0	6.02	1.37	1.17	.99	2.27	.92	.32	0	0	.15	0	14.11
125B	SAN FRANCISQUITO CANYON POWER HOUSE NO. 1 (SAUGUS)	0	8.05	1.63	1.42	1.37	1.97	1.01	.30	0	0	.08	0	15.91
126B	VENICE — FIRE STATION	0	5.29	1.45	.63	.41	4.21	.62	0	0	0	.05	0	12.66
127B	DRY CANYON RESERVOIR	0	6.26	1.17	.94	.67	2.20	.51	0	T	.01	.44	0	12.10
128B	ELIZABETH LAKE CANYON	0	8.85	1.70	1.60	1.50	3.05	.85	.50	T	T	T	T	18.05
130B	SANDBERG — QUAIL LAKE PATROL STATION	0	8.35	.70	.47	1.82	3.03	1.11	T	0	.06	0	0	15.54
134B	SAN DIMAS — STEVENS	0	6.03	1.70	1.29	.90	3.83	1.08	T	.20	.07	0	T	15.10
135	NORWALK	0	4.25	1.79	.76	.95	3.28	.60	0	0	.30	0	0	12.00
140C	SAWTELLE	0	5.57	2.94	.94	.37	5.45	.49	0	0	—	.30	0	16.06
143B	AZUSA — CITY PARK	0	4.36	1.61	1.35	.52	4.15	.66	T	.10	.02	.20	0	13.10
144	SIERRA MADRE DAM	0	6.59	2.13	1.17	1.32	3.45	.99	.11	.39	T	.03	0	16.25
155C	LITTLE ROCK CREEK	0	4.13	1.25	.53	.56	.59	.54	.02	0	.06	.38	0	8.18
156	LA MIRADA — STANDARD OIL COMPANY	0	3.43	1.71	.52	.53	2.83	.45	0	0	.04	0	0	9.51
157C	EL SEGUNDO — STANDARD OIL COMPANY	0	5.15	1.31	.74	.37	2.87	.53	0	0	.02	T	0	10.79
158	TANBARK FLATS	0	8.11	2.24	1.92	2.05	3.91	1.55	.35	.27	.09	T	.01	20.32
167C	ARCADIA PUMPING PLANT NO. 1	0	5.92	1.48	.99	.85	3.65	.60	.05	.09	.05	.03	0	13.77
169	SIERRA MADRE PUMPING PLANT	0	5.43	2.05	.90	.99	3.29	.81	.08	.15	T	.05	0	13.05
170F	POTRERO HEIGHTS	0	4.97	1.98	.68	.45	3.73	.58	0	.04	.04	0	0	12.77
172B	DUARTE	0	5.39	1.54	1.09	1.01	3.77	.90	.07	.07	.08	.12	0	15.04
174B	GLENDORA — WARREN	0	5.14	1.76	1.14	1.17	3.52	.57	0	.14	.04	0	0	13.58
175B	LA CANADA IRRIGATION DISTRICT	0	10.57	2.34	1.21	2.45	2.61	1.04	.21	.30	.01	T	.04	20.85
176	ALTADENA — RUBIO CANYON	0	8.10	1.57	1.38	1.20	3.45	.56	.15	.15	.01	.18	.01	16.85
177F	LA CANADA — A. P. ROBERTS	0	10.33	1.45	1.50	1.18	3.25	.64	0	0	.02	.01	0	18.58
178C	AZUSA VALLEY WATER COMPANY	0	5.40	1.67	1.43	1.46	3.32	.52	.04	.06	.01	.14	0	14.33
179G	BAILEY DEBRIS BASIN	0	6.66	1.53	1.06	1.15	3.45	.80	.21	.35	.02	.25	T	15.66
185	GLENDORA — WEST	0	5.87	1.87	1.48	1.71	3.72	.92	.06	.18	.03	.03	T	15.87
191B	LOS ANGELES — ALCAZAR	0	5.51	2.24	.81	.51	3.55	.56	T	T	.01	.06	0	13.25
192C	BELL — FIRE STATION	0	6.16	2.44	.74	.63	3.21	.65	0	0	.15	0	0	13.98
193B	COVINA NO. 2 — TEMPLE	0	4.74	1.96	1.29	1.72	3.92	.70	T	.15	.09	.10	0	14.67
196C	LA VERNE — FIRE STATION	0	6.06*	1.56	1.12	.55	4.01	.72	.08	0	0	0	0	14.40**
198C	BRAND DEBRIS BASIN	0	7.69	1.05	.68	1.25	2.57	.58	.06	.05	0	T	0	13.88
199D	HUNTINGTON PARK	0	5.81	2.10	.80	.44	3.10**	.52	0	0	.09	0	0	12.86**
200	SAUGUS — S.C.E. COUNTY SUBSTATION	0	5.57	.81	.57	.69	.56	.55	.16	0	0	.44	0	13.15
201C	PUENTE HILLS — ALTA MIRA RANCH	0	5.09	2.39	.78	.70	3.91	.67	0	.01	.24	.06	0	14.05
208B	ARTESIA	0	4.29	1.15	.71	.99	2.54	.55	0	0	.15	.05	0	10.43
210B	BRAND PARK	0	7.75	1.89	.77	1.40	3.16	.65	0	.12	0	0	0	15.21
213F	LOS ANGELES — HANCOCK PARK	0	8.55	1.99	1.01	.74	4.85	.57	0	0	T	.07	0	17.78
216	GLENDALE — JONES	0	6.80	1.77	.79	1.21	3.56	.54	.02	.04	T	0	0	14.73
219	PACOIMA WAREHOUSE — COUNTY FORESTRY	0	7.37	.75	1.09	1.03	2.14	.65	.15	0	0	.26	0	13.46

TABLE XIII (Continued)

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1967-68

STA NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
222C	LANKERSHIM PUMPING PLANT	0	6.70	1.59	.90	1.30	2.68	.39	.01	.01	0	.37	0	14.15
223B-E	BIG DALTON DAM	0	6.34	1.99	1.42	2.14	4.18	1.12	.16	.30	.05	.02	.08	17.80
224B	LONG BEACH – ALAMITOS LAND CO.	0	5.13	.84	.48	.95	.54	.23	0	0	0	0	0	8.50
225	MONTANA RANCH	0	4.38	.96	.57	.44	3.00	.40	0	0	0	.03	0	9.78
226B	BURBANK FIRE STATION	0	7.94	1.13	.54	.95	1.27	.63	.25	T	.25	.08	0	13.04
227D	SAN GABRIEL – BRUINGTON	0	6.71	1.77	.77	.62	3.80	.71	0	0	0	0	0	14.47
228B	BEVERLY HILLS – CITY HALL	0	9.10	2.36	.64	.61	4.59	.52	T	0	T	.07	0	18.39
235C	HENNIGER FLATS	0	7.49	1.61	1.55	1.48	2.98	.62	.62	.60	.01	.20	T	17.95
237C-E	STONE CANYON RESERVOIR	.02	7.73	3.21	1.10	.65	4.64	.75	0	0	0	.14	0	18.28
238	HOLLYWOOD DAM	0	6.84	2.37	.82	1.01	3.91	.57	T	T	0	.09	0	15.61
241C	LONG BEACH – CITY HALL	0	6.03	.84*	.57	.43	2.68	.38	0	0	0	0	0	10.93**
246C	CULVER CITY	0	11.00	2.45	.59	.21	4.65	.61	0	0	0	.35	0	19.86
250D	ACTON CAMP	0	4.10	.57	.36	.52	1.01	.50	.01	0	.04	.88	0	8.29
251C	LA CRESCENTA	0	9.36	1.30	1.22	1.54	3.31	.97	0	0	T	0	0	17.70
254B	LA PUENTE – ROWLAND RANCH	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
255D	MOUNT SAN ANTONIO COLLEGE – SPADRA	0	5.41	2.31	1.08	.65	4.40	.46	0	.08	.11	.05	0	14.73
256C	POMONA – FIRE STATION	0	6.33	2.13	1.11	.78	4.36	.56	.01	.01	.08	0	0	15.38
257	GRIFFITH PARK NURSERY	0	5.52	1.32	.87	.68	3.97	.48	0	0	0	.15	0	14.00
259D	CHATSWORTH – TWIN LAKES	0	7.77	1.63	1.34	.86	4.36	.49	.10	0	0	.25	0	16.81
261D	ACTON – HUBBARD ROAD	0	4.09	.81	.81	.50	1.33	.39	.10	0	.03	.80	0	8.86
263F	POMONA – RIVERA	0	4.55	2.72	1.34	.61	3.26	1.17	0	0	.10	0	0	14.15
264C	SAND CANYON – SORMAN CANYON	0	6.54	1.32	1.91	1.05	3.28	1.15	.03	0	*	.26	0	17.54
265D	PUENTE HILLS – WEISEL RANCH	0	3.91	2.64	.97	.79	4.19	.96	.05	.04	.09	0	0	13.54
269C	DIAMOND BAR – HORSE CAMP	0	4.36	3.31	.92	.39	5.76	.73	.05	0	.44	.07	0	16.01
270C	COUNTY FARM – RANCHO LOS AMIGOS	0	6.43**	1.50	.58	.57	2.40	.59	0	0	T	.11	T	12.28**
272D	LOS ANGELES HEADWORKS PUMPING PLANT	0	6.36	1.94	.80	.62	3.46	.56	0	0	0	.05	0	14.00
274B	ACTON – HUBBARD	0	5.79	1.24	1.31	.67	1.52	.50	.12	0	.12	1.05	0	12.72
275	SAN MARINO – HUNTINGTON LIBRARY	0	6.83	2.36	.82	.74	3.47	.58	0	0	.08	T	0	15.01
277	SAWMILL MOUNTAIN RANCH	0	7.55	1.55	.43	1.72	2.41	1.40	0	0	0	0	0	15.56
278B	LOS ANGELES – CLARK MEMORIAL LIBRARY	.05	6.80	2.24	.68	.37	3.55	.51	0	0	.01	.14	0	14.35
280B	FLINTRIDGE FIRE STATION	0	10.25	1.41	1.16	.99	3.10	.54	.01	.11	0	T	.01	17.59
283C	CRYSTAL LAKE	0	11.52	2.94	2.64	3.80	2.61	1.20	.21	.12	.87	.01	0	26.02
284D	PLACERITA CANYON	0	8.42	1.60	1.17	1.17	3.51	.94	0	0	0	.30	0	17.11
285C	MOUNT ST. MARY'S COLLEGE	0	7.72	2.68	1.18	.96	4.81	.72	0	0	0	.22	0	18.30
287B	GLENDORA	0	5.73	1.79	1.15	1.51	3.57	.33	.01	.16	.02	.01	0	14.38
289	LAGUNA-BELL – SOUTHERN CALIFORNIA EDISON CO. SUBSTA.	0	4.83	2.29	.57	.33	2.79	.77	0	T	.22	.01	0	11.81**
290B	MONTEREY PARK – FIRE STATION	0	5.03	1.62	.48	.56	3.80	.63	0	.02	.07	0	0	12.21
291	LOS ANGELES – 16TH AND CENTRAL	0	5.98	2.06	1.11	.83	3.10	.78	T	0	.04	0	0	13.52
292D-E	ENCINO RESERVOIR	0	7.03	1.86	.91	.80	3.25	.79	.03	0	0	.23	0	14.90
293-E	VAN NORMAN LAKE – LOWER	0	5.91	2.10	1.37	1.03	3.40	.54	.04	T	0	.02	T	14.41
294B	SIERRA MADRE – MIRA MONTE PUMPING PLANT	0	6.52	2.08	1.08	1.20	3.56	.98	.16	.23	T	.16	0	15.95
295G	GLENDALE – STAPENHORST	0	5.94	1.33	.09	1.10	3.81	.59	.08	.02	T	T	0	14.85
298B	GORMAN	0	5.03	.10	.57	.94	1.07	.73	.14	0	0	0	0	8.58
299F	LITTLE ROCK	0	3.30	.88	.18	.47	.49	.24	0	0	.10	.53	0	6.19
303F	PASADENA – CAL. TECH	0	7.47	1.58	.97	.72	3.61	.64	.02	.04	.01	.01	T	15.07
304	SAWPIT CANYON – DEER PARK	0	8.35	2.01	2.26	1.88	4.12	1.28	.24	.57	0	.31	0	21.02
306H	ZUMA BEACH	N.R.	N.R.	N.R.	.46	.15	3.74	N.R.	N.R.	N.R.	N.R.	INC.	.01	INC.
311b	PASADENA METEOROLOGICAL STATION	0	6.31	1.35	1.07	.31	3.35	.63	.05	.07	.01	.03	0	13.82
312B	AZUSA PLANT – GLENDORA WATER DEPARTMENT	0	4.49	1.48	1.20	.75	3.81	1.00	.12	.19	T	.20	T	13.34
321-E	PINE CANYON PATROL STATION	0	9.53	1.44	1.37	.99	2.29	1.04	T	0	0	0	0	16.66
322	MUNZ VALLEY RANCH	0	5.48	.67	.43	.49	.73	.38	.05	0	0	0	0	8.23
334B-E	COGSWELL DAM	0	10.96	2.36	2.80	2.15	3.82	1.33	.05	.01	.05	.19	T	23.75
336-E	SILVER LAKE RESERVOIR	0	5.43	1.41	.85	.42	4.18	.44	0	0	0	.21	0	13.96
338A	MOUNT WILSON – OBSERVATORY	0	12.52	3.49	3.42	1.94	3.44	1.25	.25	T	.01	T	T	26.32
338B	MOUNT WILSON – AIRWAYS	0	11.58	1.71	2.38	1.78	3.36	1.04	.17	0	0	0	0	22.43
339	WALNUT FRUIT GROWERS' ASSOCIATION	0	5.37	3.22	1.22	.69	4.86	.78	0	0	.05	.27	0	16.47
341	ALISO CANYON – BLUM RANCH	0	4.03	1.58	.46	.61	.83	.33	.02	0	.21	1.08	0	9.35
342C	UPLAND – CADNUM	0	5.37	1.71	1.50	1.24	2.00*	1.90	.13	.09	1.05	0	0	14.45*
347-B	BALDWIN PARK EXPERIMENTAL STATION	0	4.73	1.81	.91	.87	4.26	.58	.05	.10	.01	.03	0	13.35
349D	CAMP RINCON	0	9.12	1.82	2.08	1.90	3.65	1.38	.16	.01	.08	.04	0	20.46
352B	LECHUZA PATROL STATION	0	10.28	2.09	1.34	.89	5.65	.67	0	0	0	0	0	20.92
355B	LOS ANGELES – CITY COLLEGE	0	7.49	1.72	.86	.38	3.73	.47	T	T	0	.07	0	14.71
356C	SPADRA – PACIFIC COLONY	0	4.50	2.25	.98	.66	4.56	.55	T	.06	.08	0	0	13.66
357	VAN NORMAN LAKE – UPPER	0	6.48	1.81	1.39	.94	3.50	.56	.04	0	0	.03	0	14.75
363C	WILSON CANYON	0	9.91	1.23	1.43	1.33	3.84	.76	.13	0	0	.75	0	19.38
364	HAINES CANYON – LOWER	0	10.15	1.46	1.65	2.02	2.90	.67	.15	T	0	.32	0	19.51
365C	MT. LUKENS	0	9.24	1.25	1.40	1.68	2.81	.79	.20	T	T	.03	0	17.61
367	HAINES CANYON – UPPER	0	12.51	1.52	1.87	2.33	3.35	.94	.17	T	0	.04	0	22.83
372	SAN FRANCISQUITO POWER HOUSE NO. 2	0	6.97	2.30	1.21	.65	2.37	.90	.27	0	T	.40	0	15.27
373B	BRIGGS TERRACE	0	10.71	1.42	1.30	2.50	3.86	1.04	.32	.28	.04	.03	.07	21.85
377F	LAKE SHERWOOD ESTATES	0	9.75	.82	1.21	.99	5.17	.68	0	0	T	.05	0	18.77
379B	SAN GABRIEL – EAST FORK	0	7.87	1.98	1.60	1.95	3.62	1.21	.11	.02	.03	.06	0	18.45
386C	ZUMA CANYON – OAKLEY	0	11.11	2.92	1.94	.92	7.37	.98	0	0	.01	T	T	25.20
387B	COVINA CITY YARD	.03	4.54	2.10	1.02	1.34	3.31	.59	0	.10	.06	.33	0	13.42
388D	PARAMOUNT – COUNTY FIRE STATION	0	8.41	1.39	.54	.33	2.60	.50	0	0	.10	.35	0	12.22
390B-E	MORRIS DAM	0	5.59	1.77	1.66	1.51	4.14	.96	.17	.13	.03	.01	0	16.37
391C	MONTEBELLO – FIRE DEPARTMENT	0	4.77	1.59	.61	.31	3.41	.50	0	0	.13	T	0	11.32
394	HIGHLAND PARK – LINDSAY	0	7.22	1.42	.95	.62	3.74	.44	0	0	T	0	0	14.40
395B	OLIVE VIEW SANITARIUM	0	7.32	1.19	1.42	1.28	4.40	.61*	.18	0	0	.22	.04	16.56**
402F	CEDAR SPRINGS	0	10.85	3.44	2.27	2.96	2.88	1.12	.21*	.12*	.74*	.05	0	24.64**
405B	SOLEDAD CANYON – ECKLES	0	5.72	1.14	1.01	.43	2.55	.79	0	0	T	.35	0	11.99
406C	WEST AZUSA	0	4.49	1.82	1.25	.95	3.01	.56	0	.10	.10	.30	0	12.58
409-E	RIDGE ROUTE – STATE HIGHWAY MAINTENANCE STATION	0	7.50	.20	.82	.90	1.85	.70	0	0	0	0	0	11.97
415	SIGNAL HILL – CITY HALL	0	5.29	.96	.46	.36	2.51	.44	0	0	T	0	0	10.05
419B	SANTA CLARA RIDGE – MT. GLEASON	0	8.79	1.75	1.87	1.65	2.92	1.34	0	0	0	0	0	18.32
420C	ACTON – COLOMBO RANCH	0	5.75	1.15	.72	.50	1.45	.60	0	0	0	1.30	0	11.47
422G	PACOIMA CANYON	0	8.89	1.16	2.39	1.34	3.95	1.05*	.13*	0	0	.08*	0	19.17**
423A	ALISO CANYON – WAGON WHEEL RANCH	0	5.67	1.78	1.61	1.38	2.61	.95	T	0	.71	.24	0	15.79
425B-E	SAN GABRIEL DAM	0	7.42	1.85	1.78	1.52	4.74	1.28	.18	.14	.03	.07	.03	19.04
432	SANTA ANITA – FERN LODGE	0	9.46	1.89	1.60	1.55	4.29	1.27	.20	.19	T	.22	.02	20.87
433C	FAIR OAKS DEBRIS BASIN	0	9.62	1.43	1.50	1.57	3.33	.74	.47	.23	0	.06	0	18.95
434	AGOURA	0	8.77	1.11	.98	.59	3.95	.56	0	0	0	.43	0	16.51
435	MONTE NIDO	0	9.42	2.03	1.47	.64	5.32	.81	0	0	0	.16	0	20.65
436C	HANSEN DAM	0	8.01	.90	1.80	1.04	2.36	.59	.04	0	0	.28	0	14.54
437	HAMILTON BOWL – LONG BEACH	0	5.26	.94	.47	.29	2.00	.34	0	0	0	0	0	9.30
440C	CHILAO – UNITED STATES FOREST SERVICE CAMP	0	11.25	2.26	1.76	1.53	2.05	.85	.01	0	T	.29	0	20.00
441D	PALMDALE – COUNTY ROAD MAINTENANCE YARD	0	3.39	.96*	.45	.41	.97	.50	0	0	0	1.02	0	7.70**
442C	MESCAL CREEK	0	2.30	.85*	.16	.85	.37	.28	0	0	0	0	0	4.81**
443B	LATIGO CANYON – BEACH RANCH	.01	10.64	2.93	1.18	1.00	6.78	1.02	0	0	0	.01	0	24.22
444F-E	ROLLING HILLS – SOUTH COAST BOTANICAL GARDENS	0	3.45	1.13	.95	.43	2.61	.35	0	0	0	0	0	10.92
445B	LIVE OAK DAM	0	5.02	1.47	1.26	1.11	3.05	1.18	.03	.08	.16	0	0	13.37
446	ALISO CANYON – OAT MOUNTAIN	0	9.42	1.71	1.90	1.30	4.48	.75	.06	0	T	.10	.03	19.75
447C	CARBON CANYON	0	7.20	1.42	.90	.46	3.04	.73	0	0	0	0	0	13.75
449B	EATON WASH DAM	0	8.51	1.36	.97	1.02	3.17	.63	.28	.11	T	.22	0	14.29
451C-E	CASTAIC – WAYSIDE HONOR RANCH	0	6.66	.92	.90	.71	2.70	.55	.20	0	T	.35	0	13.31
453C	DEVIL'S GATE DAM	0	10.94	1.61	1.15	.98	5.35	.59	.08	.06	.03	.07	T	18.89
455B	LANCASTER – STATE HIGHWAY MAINTENANCE STATION	0	3.55	.45	.31	.46	.59	.16	0	0	.22	.30	0	6.04
456	PIUTE BUTTE	0	2.27	.90	.09	.37	.64	.22	0	.15	.23	1.46	0	5.33
458	ZUMA CANYON PATROL STATION	0	7.48	.96	1.27	.79	4.43	.32	0	0	0	0	T	15.17
460B	PLEASANT VIEW MESA – NEAL	0	4.18	2.15	.28	.45	.88	.63	0	0	.14	.37	0	9.03
462B	HILLCREST COUNTRY CLUB – LOS ANGELES	0	10.47	2.56	.98	.56	5.38	.52	0	0	0	.20	0	20.82
463B	MAR VISTA – SOUTHERN CALIFORNIA WATER CO.	0	8.11	2.46	.79	.40	5.00	0	0	0	0	.09	0	16.81
465C	SEPULVEDA DAM	0	5.62	1.14	.61	.47	3.01	.70	.10	0	0	.32	0	13.02
466B	PACOIMA CANYON – DUTCH LOUIE CANYON	0	11.02	1.32	2.05	1.54	4.18	1.05	.18	0	0	.06	0	21.87
468	PICKENS DEBRIS BASIN	0	10.54	1.40	1.31	2.04	3.44	.89	.18	.04	0	.07	0	19.91

TABLE XIII (Continued)

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1967-68

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
470	TUJUNGA – MT. LEE CREEK	0	8.74	1.49	1.88	1.14	1.90	.90	0	0	1.53	.31	0	17.89
471	LITTLE TUJUNGA – GOLD CREEK	0	7.97	1.12	2.02	.96	2.89	.89	0	0	0	0	0	20.65
474B	SOUTH GATE – FIRE DEPARTMENT	0	5.52	2.20	.55	.42	2.89	.54	0	0	.10	.04	0	12.46
475	SAUGUS – NEWHALL LAND AND FARMING COMPANY	0	6.64	.70	.57	.77	2.24	.58	.06	0	0	.32	0	11.99
476N	TRIUNFO CANYON	0	3.68	1.12	1.07	.77	4.39	.85	0	0	0	0	0	16.88
477D	SANTA ANITA – SPRING CAMP	0	9.08	1.69	2.90	2.18	3.83	.94	.14	.10	.05	.15	0	21.16
478	VALYERMO – UNITED STATES FOREST SERVICE HDQTRS.	0	4.53	1.26	.23	.90	.59	.51	0	0	1.51	.07	0	9.65
480B	TEMPLE CITY FIRE STATION	0	5.74	1.84	.65	.75	4.06	.57	0	0	.04	0	0	13.65
482	LOS ANGELES – U.S.C.	0	7.17	1.92	.59	.41	3.54	.57	0	0	.01	T	0	14.31
486B	COLDWATER CANYON – WOMAN RANCH	0	8.02	2.45	2.04	2.05	3.28	1.22	0	0	.27	0	0	19.33
488B	KAGEL CANYON PATROL STATION	0	7.23	1.33	1.96	1.29	2.71	.56	0	0	0	.15	0	14.85
489	COLD CREEK – STUNT'S RANCH	0	8.01	3.81	.80	.54*	4.43**	.83*	0	0	0	.16	0	18.75*
492C	CHILAO – STATE HIGHWAY MAINTENANCE STATION	0	12.10	1.27	1.64	2.01	2.16	.67	.01	0	.12	.19	0	20.49
497	CLAREMONT – SLAUGHTER	0	4.80	1.61	1.50	1.71	3.53	.98	.09	.15	.14	0	0	14.02
498	ANGELES CREST HIGHWAY – DARK CANYON TRAIL	0	10.41	1.46	2.12	2.44	3.57	.88	.15	T	T	.07	0	21.10
508D	ARROYO SECO – RANGER STATION	0	11.17	1.65	1.19	1.57	3.19	.70	.93	.21	0	.11	0	20.21
517B	ANDERSEN RANCH (LEWIS RANCH)	0	5.06	1.49	.48	1.59	.98	.60	0	0	1.09	0	0	12.27
542-E	FAIRMONT	0	6.87	1.64	1.09	.95	1.41	.75	.12	0	T	0	0	12.73
560A	LA VERNE HEIGHTS	0	6.04	2.10	1.00	.98	3.48	.75	.02	.11	.15	.01	.01	14.65
564C	LLANO	0	3.27	.95*	.80	.55	.38	0	0	0	1.70	.40	0	7.95**
565B	LONG BEACH – CITY AUTOMATIC	0	6.59	1.00*	.54	.52*	2.11**	.40	0	0	0	0	0	11.16**
566	LONG BEACH NO. 1	0	3.52	1.22	.59	.49	2.58	.46*	0	0	0	0	0	9.26**
570C	LONG BEACH – WEATHER BUREAU	0	5.89	.72	.58	.45	2.96	.10	0	T	T	0	0	10.71
587H	SAN ANTONIO CANYON POWER HOUSE NO. 1.	N.R.	N.R.	N.R.	1.74	1.46	3.28	1.48	.49	0	0	0	0	INC.
589D	MOUNT LOWE	0	13.00	1.21	2.29	2.40	3.49	1.16	.14	T	T	.07	0	23.76
594B	NEWHALL RANCH	0	6.21	1.65	1.17	.75	3.57	.98	.09	0	0	.15	0	16.65
610A	PASADENA – CITY HALL	0	8.43	1.61	1.01	.97	3.33	.63	.11	.07	.01	0	0	16.07
611C	ALTADENA GOLF COURSE	0	7.01	1.53	1.39	1.42	3.17	.68	.34	.20	0	.16	0	16.34
612	PASADENA – CHLORINE PLANT	0	10.90	1.62	1.33	1.45	3.25	.82	.38	.23	.01	.09	0	20.08
613B	PASADENA – HURLBUT FIRE STATION	0	7.15	1.51	1.10	1.21	3.54	.42	T	.01	.02	.03	0	15.99
617E	POMONA – ADAMSON	0	6.65	2.00	1.14	1.00	4.27	.64	.03	.03	.05	0	0	15.84
619	SAN ANTONIO CANYON – SIERRA POWER HOUSE	N.R.	N.R.	N.R.	2.19	2.22	3.60	1.59	.27	0	0	.27	0	INC.
627	SAN GABRIEL CANYON – POWER HOUSE	0	4.67	1.60	1.46	1.39	4.07	1.00	.28	.30	.02	.12	.02	14.93
634C	SANTA MONICA	0	6.31	2.42	.82	.40	3.22	.47	.01	T	0	.11	T	13.76
647H	TUJUNGA	0	7.68	1.05	1.42	1.74	.87	.79	.13	.07	T	.07	0	13.82
666C	LONG BEACH – NEREK STREET	0	5.33	1.15	.62	.34	2.55*	.45*	0	0	.07*	.19	0	10.72**
672	EAGLE ROCK – CO. SUBSTATION	0	11.25	1.40	.84	.89	3.73	.62	.04	.01	0	0	0	18.73
673U	ALAMITOS BAY	0	2.83	.97	.56	.50	2.44	.51	.01	T	.04	0	0	7.85
678	PASADENA – SHELDON RESERVOIR	0	9.81	1.58	1.13	1.02	3.33	.58	.07	.11	T	.05	0	17.68
679	PUENTE – NORTH WHITTIER HEIGHTS	0	4.71	4.15	.94	.57	4.20	.58	0	0	.37	.09	0	15.72
680H	WESTWOOD – U.C.L.A.	0	8.93	2.53	1.02	.41	4.81	.57	T	0	.07	.34	0	18.98
681A	SIERRA MADRE RANGER STATION	0	6.37	1.62	1.07	1.16	2.78	.92	T	.17	.06	0	0	14.15
683	SUNSET RIDGE GUARD STATION	0	11.45	1.45	1.44	1.54	2.75	.76	.42	.01	T	.08	0	19.90
694F	BIG TUJUNGA CANYON	0	7.40	1.05	1.42	1.43	2.21	.84	.02	0	0	.03	0	15.41
695B	TUJUNGA CANYON – VOGEL FLAT	0	8.31	2.00	1.91	1.53	3.34	1.35	0	0	0	.25	0	18.69
703	GLENDALE – MC INTYRE	0	7.49	1.27	.84	.80	3.19	.30	.05	.03	.01	0	0	14.35
705	ALDER CREEK – PARADISE RANCH	0	7.33	1.70	2.16	.98	2.72	1.39	.50	.30	0	.40	.01	17.50
715	LOS ANGELES – DUCOMMUN STREET	0	9.54	1.73	.92	.50	3.90	.09	0	.01	T	.12	0	15.71
718D	THOUSAND OAKS	0	9.89	1.08	.86	.76	2.67	.62	T	0	.03	0	0	15.91
720B	SIMI VALLEY – SUSANA KNOLLS	0	9.08	1.22	1.08	1.04	3.73	.51	.05	0	0	.05*	0	16.76**
722C	BELLEVIEW	0	4.00	.88	.56	.18	.99	.30	0	0	.03	.44	0	7.68
725B	BIRMINGHAM HOSPITAL	0	6.33	.92	.79	.67	2.73	.54	.09	0	0	.34	0	12.61
726B	ANGELES CREST GUARD STATION	0	10.41	1.62	1.69	1.65	3.48	.81	.27	.15	T	.10	0	20.45
727B	NEWCOMB PASS	0	10.79	2.07	2.44	2.12	4.37	1.25	.76	.10	.09	.31	0	23.70
728	PACOIMA CANYON – CITY ROAD CAGE	0	13.28	1.61	3.20	1.17	3.13	1.21	0	0	T	.05	0	23.55
730	MILLARD CANYON – DAWN MINE	0	12.40	1.92	2.37	1.04	3.19	.85	.42	—	T	.07	0	23.17
731	OAK GROVE HDQTRS. U.S.F.S. FLOOD CONTROL	0	10.87	1.47	1.12	.92	3.13	.64	.09	.01	T	.01	0	18.26
732B	ROBERTS CANYON – SAN GABRIEL WEST FORK D VIDE	0	9.64	2.44	3.04	2.48	4.82	1.47	0	0	.05*	.15*	0	24.19**
734B	LOS ANGELES INTERNATIONAL AIRPORT	T	7.47	1.05	.84	.44	3.77	.49	T	T	.04	T	0	14.10
735H	BELL CANYON	N.R.	N.R.	1.07	1.16	.75	4.26	.70	.02	0	0	.61	0	INC.
740B	SAN DIMAS CANYON – FERN NO. 2	0	8.20	2.52	2.65	3.28	4.21	1.50	.35	.29	.37	0	0	23.57
741	SAN DIMAS CANYON – UPPER EAST FORK	0	8.04	1.42	1.97	2.25	3.88	1.38	.34	.54	.10	0	0	20.42
742C	SAN GABRIEL – FIRE DEPARTMENT	0	5.70	1.63	.64	.62	3.84	.20	0	.12	.05	0	0	13.26
746	MOJAVE – 2 ESE	0	3.25	.62	.26	.35	.35	0	0	0	.28	0	0	5.31
747	SANDBERG – AIRWAYS STATION	0	6.85	.46	.31	1.46	.94	.00	—	0	.00	T	0	10.81
749B	BURBANK	0	7.68	1.05	1.13	.78	2.00	.85	T	.02	.04	.13	0	13.36
750	PALMDALE – F.A.A. AIRPORT	0	4.01	.60	.22	.50	.68	.19	0	0	.06	1.76	0	8.02
755	GRIFFITH PARK – LITTLE CANYON	0	6.49	1.27	.81	.79	3.44	.47	0	0	0	.14*	0	13.85**
757	GRIFFITH PARK – FERN DELL	0	8.42	1.91	.72	.80	3.94	.39	0	0	0	.13*	0	16.76**
758	GRIFFITH PARK – LOWER SPRING CANYON	0	7.11	1.35	.72	.75	4.86	.50	0	0	0	.22	0	14.99
759G	NICHOLS DEBRIS BASIN	0	9.53	1.87	.93	.95	4.14	.49	0	0	0	.11	0	18.04
760B	STUDIO CITY – GOODLAND AVENUE	0	6.25	1.53	.51	.92	3.11	.75	.03*	0	.01*	.18*	0	13.29**
762	UPPER STONE CANYON	0	7.67	1.94	.97	.71	3.90	.83	.02*	0	0	.20*	0	16.24**
763G	SEPULVEDA CANYON – EAST FIRE ROAD NO. 19	0	8.55	2.16	1.22	.79	4.59	1.02	0	0	0	.17*	0	18.45**
764	STONE CANYON – RIAL LANE	0	8.55	1.90	1.00	.70	3.87	.87	.01*	0	0	.19*	0	17.09**
766	MANDEVILLE FIRE ROAD NO. 24	0	8.06	1.91	.92	.73	4.40	.74	0	0	0	.20*	0	16.96**
767	MANDEVILLE CANYON ROAD	0	9.27	1.90	1.24	.95*	4.30	.94	0	0	0	.21*	0	18.81**
768	SULLIVAN CANYON – FIRE ROAD NO. 26	0	8.98	1.89	1.08	1.96	4.36	1.02	0	0	0	.29*	0	19.86**
770D	SANTA YNEZ CANYON – PASEO MIRAMAR	0	5.97	2.00	1.09	.52	3.98	.94	0	0	0	.93*	0	14.73**
771	RUSTIC CANYON – SANTA MONICA	0	3.02	2.83	1.05	.64	6.16	.65	0	0	0	.37*	0	14.66**
772	LOS ANGELES – ECHO PARK AND LUCRETIA	0	7.99	1.65	.93	.51	4.09	.44	0	0	0	.04*	0	15.55**
774	BARLOW SANITARIUM	0	7.39	1.55	.92	.48	3.30	.37	0	0	0	.04*	0	14.25**
777	KENTER CANYON	0	7.24	2.78	1.17	.70	3.15	.65	0	0	0	.29*	0	17.98**
778B	SEPULVEDA CANYON – SELLAGIO ROAD	0	8.14	2.69	1.34	.75	5.43	1.14	0	0	0	.18*	0	19.67**
779	GRIFFITH PARK – LOWER MINERAL WELLS	0	5.91	3.40	.81	.85	4.28	.60	.01*	0	0	.05*	0	14.91**
783	COON CANYON	0	10.87	1.40	1.22	1.20	3.08	.74	.29	.02	T	.09	0	18.91
786	COON CANYON	0	9.50	1.29	1.32	1.43	2.80	.58	.25	.01	T	.04	0	17.47
788	COON CANYON	0	10.49	1.44	1.64	1.42	3.11	.74	.27	T	T	.11	0	19.22
789	EL PRIETO CANYON	0	10.17	1.48	1.62	1.61	3.13	.77	.33	.02	T	.08	0	19.21
793	MARKHAM SADDLE	0	11.79	1.10	2.08	2.16*	3.17	1.05	.13	T	T	.06	0	21.55**
794-C	LOWER FRANKLIN RESERVOIR	0	5.72	3.21	.91	.82	4.45	.47	T	0	0	.05	0	15.33
795	PASADENA – JOURDAN	0	5.58	1.42	.9*	.84	3.23	.59	.05	.08	T	.17	0	13.07
796	ELYSIAN PARK – FIRE DEPARTMENT	0	7.75	1.52	.83	.95	3.47	.40	0	0	0	.04*	0	14.56**
797	DE SOTO RESERVOIR	0	7.67	1.59	1.24	.83	3.10	.48	.06	T	T	.04	0	15.97
799	BALDWIN HILLS RESERVOIR	0	9.28	2.29	.77	.23	2.12	.31	0	0	.01	.05	T	15.05
801D	MAGIC MOUNTAIN	0	INC.	N.R.	N.R.	N.R.	INC.	1.15	0	0	0	0	0	INC.
802H-E	EAGLE ROCK RESERVOIR	0	9.96	1.75	.84	.62	3.38	.55	.03	.09	.01	0	0	16.63
807	ASCOT RESERVOIR	0	5.87	2.34	.80	.61	4.02	.45	T	.01	.02	T	0	14.12
1000	HUNT CANYON – BONES RANCH	0	4.18	1.54	.49	.54	.82	.32	0	0	T	.55	0	8.44
1005B	MINT CANYON FIRE STATION	0	5.78	1.47	1.43	.66	1.83	.35	.03	0	0	1.29	0	12.86
1006	SAN PEDRO – CITY RESERVOIR	0	5.89	1.49	1.22	.20	1.98	.80	—	0	0	0	0	10.78
1007C	CAMP VALCHEST	0	9.92	2.69	1.86	1.63	1.07	.93	.02	0	.82	.60	0	19.94
1008-E	LA FRESA – S.C.E. CO.	0	5.03	1.29	.88	.46	2.54	.41	0	0	.10	0	0	11.71
1009	MINT CANYON – DYER	0	6.58	.63	.79	1.07	1.63	.60	0	0	0	.65*	0	12.11**
1010C	PALMER CANYON – FORKS	0	4.41	2.38	1.87	1.73	3.28	1.15	.41	0	0	0	0	15.73
1011B	PALOS VERDES FIRE STATION	0	5.56	1.00	1.35	.43	2.65	.35	.04	0	T	0	0	11.36
1012B	CASTAIC JUNCTION	0	5.74	.31	1.05	.74	2.25	.85	0	0	0	0	0	11.45
1014F-E	RIO HONDO SPRAYING GROUNDS	0	5.34	2.04	.57	.34	3.00	.62	0	0	.16	0	0	12.07
1016B	PALO COMADO CANYON – ADOURA	0	8.59	1.13	.07	.73	3.75	.51	0	0	0	.15	.02	16.16
1017R	LITTLE ROCK CREEK ABOVE DAM	0	4.04	1.10	.45	.60	.72	.60	.03	0	0	.55	0	8.09
1018B	SANTA SUSANA MOUNTAINS – DEVIL'S CANYON	0	7.55	1.61	1.49	1.72	3.37	.90	.05	0	0	.11	0	16.80
1019	SANTA SUSANA MOUNTAINS – SALT CANYON	0	8.56	2.33	1.61	2.02	6.30	1.47	.09	0	0	.15	0	22.54
1020B	PADUA HILLS PATROL STATION	0	4.99	2.87	1.49	1.33	2.35	1.15	.21	.20	.50	.01	0	15.10
1022	HASLEY CANYON – WESTERN GULF OIL	0	7.03	1.28	1.14	1.34	3.58	.80	.18	0	0	.27	0	15.42
1023B	SANTA MARIA CREEK – SPEER	0	8.25	1.42	1.13	.87	3.46	1.13	0	0	0	.43	0	17.29

TABLE XIII (Continued)

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1967-68

STA. NO.		OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
1025	MALIBU BEACH – DUNNE	0	7.14	1.06	1.06	.44	3.90	.58	0	0	0	0	0	14.28
1029	TUJUNGA – MILL CREEK SUMMIT	0	9.48	2.75	1.44	2.01	2.00	.85	0	0	1.27	.45	0	21.05
1030	MT. ISLIP – LITTLE JIMMY SPRING	0	12.39	5.42	2.34	5.92	4.13	2.12	.26	.15	1.07	.01	0	33.81
1031B	MT. WATERMAN	0	11.09	2.84	1.95	2.89	2.07	1.03	.49	.28	1.74	.07	0	24.26
1035	WHITTIER – WOOD	0	4.71	2.42	.59	.55	3.27	.54	0	0	.23	T	0	12.30
1037-E	ARCADIA – ARBORETUM	0	5.36	1.48	.80	.80	3.68	.54	.05	.09	.13	.21	0	13.43
1038B	MT. PACIFICO	0	3.18	.42	.50	.31	.46	.29	0	0	2.00**	.41*	0	7.37*
1039B	LOS ANGELES – MAC QUEEN	0	7.36	2.77	.86	.34	5.56	.52*	0	0	0	.21	0	15.62**
1040	POTRERO CANYON – SUNRAY DX OIL COMPANY	0	8.04	1.77	.71	1.02	2.87	.69	.09	0	0	.33	0	15.56
1041B	SANTA FE DAM	0	5.80	1.44	.75	.78	4.32	.61	0	0	0	.04	0	13.74
1045B	SANTA ANITA CANYON – CHANTRY FLAT	0	6.63	2.22	1.66	1.61	3.41	1.05	.21	.29	.06	.22	0	17.90
1046B	LA CRESCENTA – COUNTY ROAD DEPARTMENT	0	5.21	2.23	1.45	1.91	3.35	.65	0	0	0	0	0	19.01
1050B	OLD TOPANGA CANYON	0	9.73	2.02	1.16	.65	4.21	1.27	T	0	T	.56	T	19.70
1051B	CANOGA PARK – PIERCE COLLEGE	0	7.91	1.04	1.14	.75	3.62	.59	.11	0	0	.57	0	15.64
1052	CAMP JOSEPHO	0	7.97	2.78	1.40	.73	5.33	.66	0	0	0	.51	0	19.78
1053B	BIG TUJUNGA CANYON SPREADING GROUNDS	0	7.20	1.06*	1.42*	1.54*	2.54	.45	.09	T	0	.05*	0	14.35*
1054	VETERANS' HOSPITAL – SAN FERNANDO	0	6.06	1.00	1.50	1.75	3.63	.67	0	0	0	.15	T	14.79
1055B	MT. BALDY NOTCH	0	9.60	3.05	2.65	3.45	2.15	.70	.35	0	1.50	0	0	25.45
1057B	WHITTIER NARROWS ABOVE DAM	0	5.12	2.11	.58	.38	4.44	.61	0	T	.10	.02	0	13.47
1058B-E	PALMDALE	0	3.51	.68	.29	.41	.75	.64	0	0	0	1.46	0	7.55
1059B	SOUTH MT. HAWKINS	0	10.65	2.64	2.64	3.53	2.82	1.11	.19	0	.93	.01	0	24.16
1060B	LITTLE ROCK – SYCAMORE CAMP	0	4.84	1.40	.24	.31	.76	.64	0	0	1.77	.15	0	10.41
1062	BUCKHORN FLAT	0	14.07	2.16	2.47	5.07	2.36	1.04*	.13*	0	.77	.10	0	26.17**
1063	SOLEDAD PASS	0	4.04	1.16	.41	.98	.53	.40	T	0	.52	.76	0	8.90
1064B	SAN GABRIEL EAST FORK – DOT MINE	0	INC.	INC.	INC.	INC.	INC.	INC.	INC.	N.R.	N.R.	N.R.	N.R.	INC.
1066B	LONG BEACH – LEES STREET	0	3.07*	1.12*	.48*	.47*	2.49**	.49	0	0	0	0	0	8.02*
1067	SANTIAGO CANYON	0	6.55	1.61	.52	.83	.99	.83	.04	0	.38	.50	0	11.26
1068	RATTLESNAKE CANYON – CAMP #3	0	10.94	2.27	1.48	.92	5.15	.71	0	0	0	0	0	21.47
1069	SAN GABRIEL EAST FORK TUNNEL	0	7.49	2.29	2.64	2.77	4.49	1.38	.32	.19	1.34	.02	0	22.87
1070	MANHATTAN BEACH	0	4.89	.97	1.05	.75	2.15	.53	0	0	.01	0	0	10.35
1071B-E	DESCANSO GARDENS	0	11.14	1.41	1.29	1.61	3.23	.68	.12	.08	0	.02	.01	19.74
1072	LITTLE TUJUNGA RANGER STATION	0	8.14	.74	1.22	.98	3.19	.53	0	0	0	.25	0	15.15
1073B	PALMDALE – CIRCLE C	0	3.65	.66	.39	.52	1.22	.32	T	0	.04	.52	0	7.52
1074	LITTLE GLEASON	0	6.93	1.77	1.89	1.67	2.97	1.36	.03	0	.24	.69	0	19.55
1075	UPPER WOLFSKILL CANYON	0	6.96	1.87	1.63	2.42	4.45	1.41	.51	.77	.14	0	0	20.19
1076B	MONTE CRISTO RANGER STATION	0	8.81	1.16	1.64	1.35	2.20	1.03	0	0	.69	.05	.02	16.96
1077B	MONROVIA – FIVE POINTS	0	6.66	.69	1.18	1.39	3.89	.77	.39	.47	.06	.14	0	15.60
1078	COVINA – GRIFFITH	0	8.56	1.06	1.18	.86	3.82	.52	.04	.07	.07	.03	0	16.61
1079	RUBIO DEBRIS BASIN	0	9.53	1.40	1.53	1.63	3.21	.75	.54	.33	T	.06	0	18.78
1080B	BRADBURY DEBRIS BASIN	0	5.84	1.40	1.22	1.26	3.39	.91	.15	.18	.04	.61	0	15.20
1081	DEER DEBRIS BASIN	0	7.95	1.31	1.15	1.91	3.34	.75	T	.06	0	0	0	16.47
1082	DUNSMUIR DEBRIS BASIN	0	8.83	1.31	.85	2.09	3.66	.83	.23	.11	0	.10	0	18.01
1083	MADDOCK DEBRIS BASIN	0	6.03	1.43	1.32	1.59	3.97	1.02	.10	.19	.02	.29	0	15.96
1084B	MAY DEBRIS BASIN	0	6.94	1.20	1.30	1.57	3.66	.69	.04	0	0	.17	0	15.47
1085	MC CLURE DEBRIS BASIN	0	5.23	.88	.96	1.60	2.05	.52	.10	0	0	.06	0	11.46
1086	TURNBULL DEBRIS BASIN	0	4.33	2.33	.48	.67	3.13	.64	.02	T	.28	.07	0	12.15
1087-E	GREEN VERDUGO PUMP PLANT	0	5.67	1.21	1.21	1.29	2.29	.77	.01	T	T	.30	T	13.81
1088B	LA HABRA MOUNTAINS – MUTUAL WATER CO.	0	3.94	2.60	.73	.74	3.57	.67	0	T	.12	0	0	12.67
1089D	TOPANGA CANYON OUTLET	0	7.21	1.48	1.14	.73	5.51	.82	0	0	0	.33*	0	17.17**
1090	LOS ALAMITOS	0	2.95	1.51	.32	.45	2.77	.23	0	0	0	0	0	8.23
1092B	BUENA PARK	0	2.75	1.95	.60	.40	3.10	.80	0	0	.05	.20	0	9.86
1093-E	FULLERTON AIRPORT	0	2.84	2.50	.63	.50	2.86	.64	0	0	.04	0	0	10.01
1095	ORANGE COUNTY RESERVOIR	0	3.43	2.45	.95	.39	3.31	.67	.02	0	.05	0	0	11.27
1099	WHITTIER – CATE	0	4.71	2.22	.59	.39	3.21	.56	T	0	.22	0	0	11.90
1102B	BOBCAT CANYON – SAN GABRIEL WEST FORK	0	6.83	2.00	1.70	1.62	2.30	.62	.25	0	0	.25	0	17.77
1104	BOUQUET CANYON AT TEXAS CANYON	0	6.20	.55	.94	.48	0	.55	.33	0	0	.90	0	10.12
1105R	FAIRMONT	0	5.05	.79	.64	.58	.75	.51	0	0	.18	0	0	8.52
1107D	LA TUNA CANYON	0	7.06	.70	1.31	1.39	2.42	.56	.04	T	0	.24	0	13.66
1108B	LEONA VALLEY	0	5.21	1.36	1.03	.57	1.67	.70	.02	0	.09	2.84	0	12.71
1109	MT. BALDY	0	11.24	5.51	4.27	4.03	2.51	.81	.40	0	1.75	.05	0	30.97
1110	SCHOLL DEBRIS BASIN	0	9.01	1.56	.89	.72	3.48	.68	T	.11	0	0	0	16.25
1111C	DEVIL'S PUNCHBOWL	0	6.70	1.99	.84	1.38	1.15	.60	T	0	.96	.02	0	14.01
1113	DOMINGUEZ WATER COMPANY	0	5.68	.98	.58	.35	2.47	.40	0	0	.03	0	0	10.59
1114B	WHITTIER NARROWS DAM	0	4.81	1.87	.49	.31	3.25	.81	0	0	.05	0	0	11.62
1115	SAN ANTONIO DAM	0	5.64	1.63	1.43	1.17	3.12	1.30	.29	0	.32	0	0	14.90
1116	LONG BEACH – SAN ANSELINO	0	3.79	1.24	.50	.45	3.12	.35	0	0	0	0	0	9.45
1117	PINE CANYON GUARD STATION	0	6.66	2.11	1.22	1.03	2.30	1.07	.17	0	0	.43	0	15.01
1119B	ARMORE MEADOW	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
1120	DAWSON SADDLE	0	9.80	2.58	2.03	2.85	1.80	.82	.22	.12	.86	.01	0	20.63
1121C	BARLEY FLAT	0	12.56	2.35	1.85	1.81	2.57	.93	T	0	.17	.11	0	22.37
1122	COOKS DEBRIS BASIN	0	8.31	1.28	1.39	2.15	2.57	.75	.24	.06	0	.15	0	16.90
1124B	RED BOX GAP	0	16.31	1.70	2.82	2.82	3.78	1.19	.11	0	0	.21	0	28.98
1125	LA PUENTE	0	9.87	3.30	1.11	.82	4.40	.63	0	0	.42	.05	0	14.60
1126	LOS ANGELES WATER DEPARTMENT – EAST VALLEY	0	6.59	1.61	.88	.57	2.19	.69	.01	T	0	.13	0	13.06
1127	WEST BURBANK	0	7.43	.45	.89	1.08	2.47	.63	T	T	T	.13	0	13.57
1128	WRIGHTWOOD FIRE STATION	0	4.04	5.53	1.06	1.60	1.43	.71	T	0	.63	T	0	15.00
1129	NICHOLAS CANYON	0	11.51	.64	.52	.93	3.59	.97	0	0	0	0	.05	17.51
1132	OAK FLAT GUARD STATION	0	5.62	1.74	1.89	1.84	3.01	1.20	.08	0	0	0	.01	15.39
1133	FISH CANYON	0	8.82	2.20	2.12	1.81	5.64	1.62	.21	.12	.05*	.15*	0	22.64**
1135B	LUNADA BAY	0	5.16	.36	.63	.25	1.47	.11	.02	T	.01	0	0	9.01
1137B	STOUGH PARK	0	7.12	1.04	1.12	1.01	2.51	.44	T	T	.01	.11	T	13.36
1138	MT. DISAPPOINTMENT	0	13.93	2.58	3.21	2.33	3.78	1.26	.15	T	T	.15	0	27.40
1139B	PALOS VERDES HILLS – HIGH RIDGE	0	6.88	1.04	1.30	.61	3.23	.43	0	0	0	0	0	13.49
1140	ROSEMEAD	0	5.25	1.87	.65	.53	4.52	.58	T	.03	.06	T	0	14.59
1141B	SPRING CANYON	0	5.20	.63	.88	.77	1.30	.68	0	0	0	.35*	0	9.81**
1142	SOLEDAD CANYON – BERMITE POWDER COMPANY	0	6.33	1.59	.60	.85	2.33	.72	.05*	0	0	.34*	0	12.81**
1144	SAN GABRIEL – NORTH FORK	0	9.01	1.90	1.74	1.91	3.40	1.09	.11	.11	.08	.19	0	19.54
1145	UPLAND	0	5.64	1.68	2.14	.95	3.80	1.55	.09	.05	.86	0	0	16.76
1146	SANTA ANITA CANYON – HELIPORT	0	9.57	1.79	2.13	1.58	4.16	1.23	.15	.19	0	.28	T	21.10
1147	EL CABALLERO COUNTRY CLUB	0	7.84	1.81	1.05	1.29	3.29	1.00	.05	0	T	0	0	16.33
1148B	SAN JOSE HILLS	0	4.81	2.09	.92	1.08	3.86	.51	.08	0	.13	0	0	13.58
1150	LOPEZ CANYON GUARD STATION	0	7.37	.77	1.41	1.42	3.21	.50	0	0	0	.15	.05	14.88
1151	BRIGDEN RESERVOIR NO. 1	0	7.33	1.48	1.34	1.12	3.25	.68	.16	.15	T	.07	0	15.58
1152	CLEAR CREEK RANGER STATION	0	13.76	1.84*	1.08	2.23	3.21	1.22	0	0	0	0	0	24.16**
1155	LAWNDALE	0	5.28	.93	1.65	.59	3.63	.48*	0	0	.17	0	0	13.73**
1157	SAN FERNANDO VALLEY STATE COLLEGE	T	7.26*	.96	.94	.59	5.79	.42	.03	0	0	.66	0	14.65*
1158	TORRANCE MUNICIPAL AIRPORT	0	5.21	2.13	.94	.52	2.39	.33	0	0	0	0	0	11.42
1159	SHORTCUT CANYON – WEST FORK	0	12.74	2.18	2.59	1.40	4.77	1.10	.06	0	.05*	.12	0	25.01**
1160	SAN GABRIEL CANYON – WEST FORK HELIPORT	0	10.43	2.61	2.35	1.60	3.88	.38	.11	0	.03	.18	0	22.18
1161	LA CRESCENTA – GREGG	0	10.23	1.30	1.33	2.17	5.53	.91	.24	.16	T	.05	.04	19.96
1162	IRON MOUNTAIN	0	11.87	2.36	2.51	2.22	3.95	1.91	.03	0	.08*	.42*	0	25.25**
1163	BEAR CANYON – CRYSTAL LAKE ROAD	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
1164	WALTERIA LAKE PUMPING STATION	0	5.92	.66	.51	0	1.33	.99	0	0	0	0	0	9.03
1165	GARAPITO CREEK	0	7.71	1.26	.15	.05	1.48	.79	0	0	0	.36*	0	15.30**
1167	FENNER CANYON	0	7.87	2.95	.28	0	1.55	.87	0	0	1.27	.10	0	14.69
1168B	REYNOLDS RANCH – MAXY RANCH	0	3.26	.22	.60	.26	1.11	.56	.07	0	0	0	0	6.78
1169	LAKE PIRU	0	7.59	1.45	1.30	.97	3.48	.64	.03	0	0	.20	0	15.66
1170	WATER WORKS – DISTRICT NO. 8	0	11.03	1.04	.88	.65	4.08	.65	0	0	0	0	0	18.33
1171	CAMULOS RANCH	0	7.78	1.50	.86	.72	3.54	.93	0	0	0	.11	0	15.55
1172	PIRU CANYON ABOVE PIRU LAKE	0	7.36	1.07	.76	.71	3.04	.64	.23	0	0	.50	0	14.51
1174	CASTRO PEAK	0	11.37	1.52	1.39	.90	4.59	.72	0	0	T	.01	0	20.80
1175	DOUGLAS WHITE OAKS PARK	0	9.07	1.30	1.01	.84	3.14	.41	0	0	0	.05	0	15.82
1176B	PIRU 3 SSE	0	8.50	1.80	3.10	1.10	9.60	1.10	0	0	0	0	0	21.20
1177	BARD RESERVOIR	0	10.56	1.23	.92	.59	3.40	.37	0	0	0	.20	0	17.27
1179	BUCK CREEK GUARD STATION	0	5.33	.50	.53	0	1.02	.59	0	0	0	.03	0	9.10

TABLE XIII (Continued)

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1967-68

STA. NO.		OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
1180	PACIFIC PALISADES	0	5.13	2.35	1.12	.60	4.16	.78	0	0	0	.43	0	15.55
1181	SCHOOLHOUSE CANYON	0	8.43	1.05	1.22	1.13	3.27	.55	.10	0	0	.24	0	15.09
1182	FISH CREEK	0	8.04	1.10	.86	1.12	2.74	.91	.09	0	0	.01	0	14.87
1183B	LA HABRA FIRE STATION	0	3.82	2.28	.85	.53	3.02	.61	0	0	.10	0	0	11.21
1184	SAN FRANCISQUITO CANYON – CAMP 17	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.R.	.09	0	INC.
1185	CASTAIC TOWER LOOKOUT	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.	.43	0	INC.
X15B	HI VISTA	0	2.41	.90	.04	.37	.55	.12	0	.15	.51	.12	0	5.17
X19	COOKS CANYON	0	9.30	1.18	1.20	2.05	2.79	.69	.20	T	T	T	0	17.41
X21B	DUNSMORE CANYON – UPPER	0	9.91	1.16	1.32	2.25	3.39	.55	.22	T	T	.04	T	18.85
X22	ISLIP SADDLE	0	11.09	3.37	2.97	3.79	2.61	1.44	.25	.26	.90	.08	0	26.84
X23	DORR CANYON	0	10.85	3.62	2.26	3.80	1.57	1.16	.15	.19	1.37	.44	0	25.44
X24	GRASSY HOLLOW	0	4.87	3.00	1.21	1.57	1.37	.69	.06	0	1.50	0	0	14.47
X25	BEAR GULCH	0	6.11	3.75	2.59	3.03	2.88	1.12	.12	0	1.01	0	0	20.61
X26	BLUE RIDGE	0	6.19	INC.	INC.	INC.	INC.	INC.	INC.	0	1.61	0	0	INC.
X27	GUFFY'S CAMP	0	6.86	4.25	2.50	2.75	2.48	1.02	.25	0	1.13	0	0	21.24
X28B	HOLIDAY HILL	0	4.72	2.35	1.62	2.12	3.00	.69	0	0	.90	.14	0	15.54
X29	PINE MOUNTAIN	0	9.34*	2.35	2.94	2.40	4.76	1.42	0	0	0	.18	0	23.40*
X33	EAGLE DEBRIS BASIN	0	9.50	1.27	1.27	2.01	3.39	.02	.16	.05	0	0	0	18.07
X38	LAS VIRGENES CANYON	0	8.07	.91	1.03	.45	4.00	.51	0	0	0	0	0	14.98
X40	TURNBULL CANYON – SKYLINE DRIVE	0	4.56	2.10	.47	.62	3.25	.71	0	0	0	.07	0	11.81

LEGEND

* ESTIMATE > 10% OF TOTAL
** ESTIMATE < 10% OF TOTAL

INC. INCOMPLETE RECORD
N.I. NOT INSTALLED
N.R. NO RECORD

TABLE XIV

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1968-69

STA. NO	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
2B	ESCONDIDO CANYON	.87	.33	1.59	19.69	8.30	.36	.53	.02	.02	.06	0	.03	32.00
3D	SEMINOLE HOT SPRINGS	.54	.06	1.45	26.38	11.78	.58	1.02	0	0	.14	0	0	43.95
4C	MALIBU LAKESIDE	.69	.67	1.65	32.10	13.47	.45	1.03	0	0	0	0	0	50.26
5B	CALABASAS	.62	.64	1.39	19.73	8.23	.49	.75	.05	.01	.10	0	0	33.02
6	TOPANGA CANYON PATROL STATION	.99	.53	1.90	31.62	11.99	.88	.85	.05	0	.18	0	0	48.99
9B	SEPULVEDA AND RAYEN	.36	.37	1.21	12.38*	7.54	.90	.56	.10	0	.19	0	.01	24.24**
10B	BEL AIR HOTEL	.59	.46	1.86*	20.34	7.64	1.28	.55	0	0	.40	0	0	32.90**
11C	UPPER FRANKLIN CANYON RESERVOIR	.52	.55	1.20	21.39	8.97	1.38	.61	.06	.05	.09	0	0	34.83
12	FRANKLIN CANYON – MULHOLLAND HIGHWAY	.39	.54	1.17	22.53	7.67	1.56	.60*	0	0	.08	0	0	36.54**
13B	NORTH HOLLYWOOD – BLIX	.32	.40	.86	17.50	9.56	1.23	.62	.01	.03	.15	0	0	30.68
14C	ROSCOE-MERRILL	.32	.32	1.27	12.47	8.71	1.21	.62	.02	.13	.08	0	T	25.35
15B	VAN NUYS	.38	.37	1.04	14.18	10.68	.47	.53	.09	0	.40	0	.03	28.16
17	SEPULVEDA CANYON AND MULHOLLAND HIGHWAY	.53	.44*	.26	26.61	11.60	.56	.19	0	0	1.86	0	0	43.17**
20B	GIRARD RESERVOIR	.58	.60	1.48	20.50	11.71	.70	.78	.06	0	0	0	T	36.41
21	BRANT RANCHO – GIRARD	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
23B-E	CHATSWORTH RESERVOIR	.51	.54	1.36	14.92	6.04	.95	.54	.09	.05	.05	0	0	25.05
24D	CHATSWORTH	.55	.51	1.60	13.36	5.89	.61	.59	.07	.03	.10	0	0	23.51
25C	NORTHRIDGE	.41	.43	1.25	13.49	6.86	.86	.46	.16	.01	.23	0	T	24.16
27B	PACOIMA – RADDATZ RANCH	.36	.37	1.19	12.92	7.03	.89	.73	.04	0	.25	0	T	23.78
28G	SAN FERNANDO	.49	.34	1.60	15.06	8.22	1.04	1.20	0	T	.39	0	T	28.25
29D	GRANADA HILLS	.61	.48	1.59	15.78	7.80	1.01	.96	.09	.12	.22	0	.01	28.87
30B	SYLMAR	.45	.40	1.55	15.60	10.86	.85	.28	.18	.14	.38	0	0	32.71
31	ORCUTT RANCH	N.R.	N.R.	N.R.	22.93	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
32C-E	NEWHALL-SOLEDAD DIVISION HEADQUARTERS	.33	.30	1.06	16.64	11.84	.70	.99	.04	.04	.15	0	0	32.09
33A-E	PACOIMA DAM	.50	.38	1.56	16.55	9.45	1.49	1.45	.02	.25	.12	0	T	31.77
39B	SUNSET DAM	.25	.57	INC.	18.05	10.61**	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
42C	REDONDO BEACH – CITY HALL	.34	.36	1.75	11.07	4.39	.92	.54	.12	0	.02	0	0	19.51
43D	PALOS VERDES ESTATES	.23	.43	1.38	10.60	4.95	.68	.50	.01	0	0	0	0	18.78
44A	POINT VICENTE LIGHTHOUSE	.31	.06	1.30	9.53	4.27	.56	.34	0	0	.01	0	0	15.47
46D-E	BIG TUJUNGA DAM	.29	.64	1.68	33.39	20.72	1.83	1.90	.10	T	.08	0	T	60.63
47D	CLEAR CREEK – CITY SCHOOL	.30	.78	2.25	65.56**	23.42	2.22	2.34	.17	0	0	0	0	77.04**
48B	OAK WILDE	.30	.59	1.78	22.28	11.09	1.58	1.13	T	T	.13	0	T	38.89
50B	LA CANADA – ARROYO SECO	.40	.48	.65	24.65	13.15	1.61	1.02	.07	0	.07	0	0	42.10
51	FALLING SPRINGS	.30	.71	2.39	36.13	26.53	1.90	2.21	1.03	.13	.15	0	.03	74.52
52D	WATERMAN GUARD STATION	.38	.79	1.89	35.37*	20.33	1.45	1.82	.26	.11	.09	0	0	62.48**
53D	COLBY'S	.26	.79	2.43	33.12	25.65	1.55	2.28	.20	0	.27	0	0	66.56
54C	LOOMIS RANCH – ALDER CREEK	.47	.50	1.88	17.87	12.86	1.19	1.16	.32	T	.42	0	0	36.80
57B-E	CAMP HI HILL (OPID'S)	.75	1.16	3.18	48.29	30.58	1.93	2.56	.36	T	.39	0	0	89.01
58	STURTEVANT CAMP	.56	1.05	2.35*	INC.	INC.	2.67	1.37	0	.50	0	0	0	INC.
60A	HOEGEE'S	.71	1.19	2.04	INC.	27.76	2.18	2.34	.41	.24	.15	0	0	INC.
63C-E	SANTA ANITA DAM	.77	.78	1.45	35.05	19.39	2.45	1.30	.27	.48	.16	0	0	62.10
66	SIERRA MADRE – POPLAR RANCH	.47	.52	.89	22.73	14.21	1.71	1.01	.12	.27	.15	0	0	42.08
67F	MONROVIA – NEWS POST	.53	.96	.70	20.87	11.57	2.10	1.06	.04	.19	.10	0	0	37.52
68C	SAWPIT DAM	1.08	.79	1.46	29.04	15.31	2.11	1.46	.33	.71	.16	.02	0	52.47
73	GLENDORA – ENGLEWILD RANCH	.49	.85	1.28	23.25	14.82	2.09	1.29	.27	.39	.05	0	0	44.72
76B	SAN GABRIEL DAM CAMP	.46	.71	1.51	37.24	22.48	1.98	1.50	.26	.04	.09	0	.08	66.49
78B	COLDBROOK RANGER STATION	.27	.59	3.15	37.59	23.36	2.47	1.81	.60	0	.09	0	0	69.17
80B	PRAIRIE FORK	1.06	.75	2.27	28.11	19.10	2.01	1.68	.84	.18	.49	0	T	52.61
81B	VINCENT GAP	.15	.37	4.13	46.37	31.19	3.45	2.40	1.21	.26	1.03	0	0	90.56
82F	TABLE MOUNTAIN	.10	.46	1.46	18.28	13.29*	2.25	4.23	.84	T	.57	0	0	41.48
83B	BIG PINES RECREATION PARK	.32	.79	2.50	25.47	20.18	2.12	1.77	.88	.19	.73	0	T	54.95
85G	MT. BALDY GUARD STATION	.67	.86	2.70	50.64	26.75	2.67	2.45	1.42	.07	.47	0	0	88.80
87C	SAN DIMAS GUARD STATION	.14	.81	1.35	INC.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.
89B-E	SAN DIMAS DAM	.32	.84	1.21	25.89	14.14	2.09	1.27	.22	.02	.06	0	T	45.70
90	ELDER RANCH	.34	.78	1.37	24.36	15.48	1.92	1.06	.29	.06	.08	0	0	46.76
91	INDIAN HILL – CLAREMONT	.29	.69	1.13	16.97	12.73	1.38	.77	.20	0	.05*	0	0	34.21**
92	CLAREMONT – POMONA COLLEGE	.39	.62	1.22	14.26	11.12	1.26	.88	.20	.16	.25	0	.02	30.40
93B	CLAREMONT – POLICE STATION	.41	.60	1.24	14.39	11.67	1.07	1.00	.22	.05	.18	.01	0	30.84
95	SAN DIMAS – FIRE WARDEN	.33	.97	1.22	15.22	11.19	2.04	.96	.23	.06	.29	.04	0	32.55
96C-E	PUDDINGSTONE DAM	.54	.70	1.21	14.07	11.28	1.78	.89	.19	.06	.04	0	0	30.75
99B	AZUSA – FOOTHILL RANCH	.33	.69	1.20	18.71	17.89	2.63	.90	.18	.24	.10	0	T	37.67
102C	WALNUT – PATROL STATION	.19	.43	.69	14.47	10.79	1.34	.68	.15	0	.04	0	T	28.78
106C	WHITTIER CITY HALL	.27	.34	1.25	13.31	8.22	1.18	.79	T	.01	T	0	0	25.37
107C	DOWNEY – FIRE DEPARTMENT	.27	.40	1.16	13.11	5.88	.90	.56	.02	0	.03	0	T	22.33
108D	EL MONTE FIRE STATION	.60	.33	.99	14.73	9.13	1.56	.52	.05	0	T	0	T	27.91
109D	WEST ARCADIA	.32	.37	1.04	16.08	11.62	1.40	.80	.02	.01	.02	0	0	34.28
110B	ALHAMBRA	.43	.34	.83	18.20	11.04	1.52	.93	.06	T	T	0	0	33.25
111	SOUTH PASADENA – CITY HALL	.21	.34	.70	17.56	10.84	1.44	.86	.07	.05	.04	0	0	32.11
116D	INGLEWOOD – FIRE STATION	.32	.37	1.59	13.83	5.70	.51	.57	0	0	.03	0	T	22.92
117F	COMPTON – FIRE STATION	.20	.29	1.63	12.89	6.25	.74	.52	.02	0	.10	0	0	22.66
118C	WILMINGTON	.32	.37	1.85	9.09	4.78	.49	.20	.15	0	0	0	0	17.25
119D	SAWTELLE – SOLDIERS HOME	.25	.51	1.53	15.75	7.12	.74	.56	.06	0	.30	0	T	26.82
120	VINCENT PATROL STATION	.13	.12	.65	5.31	4.72	.76	.57	.48	.28	.76	0	0	13.28
122F	LEONIS VALLEY – RITTER RANCH	.30	.39	.88	10.91	9.19	.72	1.34	.20	0	.36	0	0	24.19
124B-E	BOUQUET CANYON RESERVOIR	.45	.39	1.23	15.60	12.52	1.13	1.07	.17	.10	.14	0	.01	33.01
125B	SAN FRANCISQUITO CANYON POWER HOUSE NO. 1 (SAUGUS)	.39	.47	1.51	14.49	12.75	1.67	1.15	.23	.12	0	0	0	32.98
126B	VENICE – FIRE STATION	.34	.55	1.46	16.33	4.09	.99	.35	0	0	.20	0	.01	22.34
127B	DRY CANYON RESERVOIR	.75	.43	.96	10.06	6.60	1.29	.68	.08	0	.15	0	0	21.83
128B	ELIZABETH LAKE CANYON	.78	.43	1.30	19.93	16.10	1.12	1.67	.18	.18	.14	0	T	41.81
130B	SANDBERG – QUAIL LAKE PATROL STATION	.58	.35	.44	11.34	9.82	.51	.97	.23	.50	.13	0	T	24.71
134B	SAN DIMAS – STEVENS	.32	.80	1.34	16.09	13.51	1.59	1.04	.20	.04	.07	0	T	36.91
135	NORWALK	.21	.33	1.78	12.59	6.50	.97	.71	0	0	0	0	0	23.09
140C	SAWTELLE	.65	.49	1.61	19.02	8.21	.75	.65	.06*	0	.30*	0	T	31.94**
143B	AZUSA – CITY PARK	.33	.76	1.18	18.36	12.16	2.62	1.06	.20	.21	.02	0	0	36.90
144	SIERRA MADRE DAM	.57	.69	1.32	29.09	16.43	2.55	1.21	.20	.81	.14	0	0	53.01
153C	LITTLE ROCK CREEK	.15	.12	.77	4.92	6.09	.78	1.02	.30	.06	.22	0	0	14.45
156	LA MIRADA – STANDARD OIL COMPANY	.16	.42	1.33	12.22	7.39	.96	.52	T	T	.03	0	0	23.03
157C	EL SEGUNDO – STANDARD OIL COMPANY	.17	.32	1.46	12.43	5.34	.45	.49	T	0	.08	0	0	20.74
158	TANBARK FLATS	.22	.54	1.83	33.80	21.57	2.14	1.70	.50	.24	.15	0	T	62.79
167C	ARCADIA PUMPING PLANT NO. 1	.55	.53	.75	21.88	13.53	1.73	1.12	.09	.39	.13	0	0	40.80
169	SIERRA MADRE PUMPING PLANT	.58	.50	1.07	26.23	14.36	2.13	1.12	.16	.53	.12	0	0	46.88
170F	POTRERO HEIGHTS	.55	.27	.82	15.16	9.30	1.92	.74	.02	0	.02	0	.01	28.81
172B	DUARTE	.44	.52	.05	18.99	12.65	1.59	1.07	.18	.19	.05	0	0	36.58
174B	GLENDORA – WARREN	.31	.77	1.20	18.71	12.33	2.11	1.03	.24	.19	.01	0	0	36.90
175B	LA CANADA IRRIGATION DISTRICT	.25	.63	1.53	28.20	13.66	1.90	1.45	.11	.85	.20	0	0	49.08
176	ALTADENA – RUBIO CANYON	.25	.45	1.04	24.39	13.63	1.75	1.08	.08	.52	.04	0	0	43.23
177F	LA CANADA – AR ROBERTS	.27	.59	1.08	25.55	13.54	1.86	1.07	.05	0	.25	0	0	44.26
178C	AZUSA VALLEY WATER COMPANY	.34	.58	.89	15.25	10.45	2.40	.88	.10	.04	0	0	0	30.93
179G	BAILEY DEBRIS BASIN	.55	.60	.84	30.39	16.45	1.80	1.20	.20	.68	.26	0	0	52.97
185	GLENDORA – WEST	.44	.63	1.30	19.68	13.20	2.25	1.15	.21	.30	.10	0	T	39.26
191B	LOS ANGELES – ALCAZAR	.57	.35	1.10	15.53	6.00	1.63	.69	.03	0	.01	0	0	26.09
192C	BELL – FIRE STATION	.29	.47	1.15	15.16	9.16	1.20	.51	.04	0	.09	0	0	28.11
193B	COVINA NO. 2 – TEMPLE	.56	.51	1.10	18.67	10.16	1.59	1.01	.10	.01	.16	0	0	29.97
196C	LA VERNE – FIRE STATION	.47	.59	1.30	15.77	12.42	1.20	.70	.10	0	.05	0	0	32.60
198C	BRAND DEBRIS BASIN	.22	.35	INC.	14,61	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
199D	HUNTINGTON PARK	.36	.33	1.12	14.21	9.74	1.55	.58	.01	0	.03	0	0	28.03
200	SAUGUS – SOUTHERN CALIFORNIA EDISON CO. SUBSTA.	.35	.36	.97	10.75	8.84	.56	.60	.15	0	.11	0	0	22.64
201C	ALTA MIRA RANCH	.30	.55	1.31	16.91	10.06	1.24	.89	0	0	.08	0	0	31.34
208B	ARTESIA	.19	.35	1.55	11.85	6.59	.63	.30	0	0	0	0	0	21.66
210B	BRAND PARK	.23	.45	.94	18.31	10.31	1.08	.85	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
213D	LOS ANGELES – HANCOCK PARK	.51	.35	1.20	14.47	6.85	.85	.84	.01	0	.13*	0	0	24.93**
216	GLENDALE – JONES	.28	.39	.81	18.67	9.26	1.66	.81	.04	T	.09	0	T	32.03
219	PACOIMA WAREHOUSE – COUNTY FORESTRY	.31	.28	1.59	14.27	7.04	1.12	.65	0	10	.26	0	0	25.56
222C	LANKERSHIM PUMPING PLANT	.28	.35	.86	15.68	8.78	1.13	.19	T	.09	.24	0	0	27.57
223B-E	BIG DALTON DAM	.26	.62	1.40	28.41	16.77	2.11	1.49	.29	.32	.13	0	0	52.00

TABLE XIV (Continued)

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1968-69

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
224B	LONG BEACH-ALAMITOS LAND COMPANY	.39	.40	1.65	10.88	5.09	.70	.41	0	0	0	0	0	19.46
225	MONTANA RANCH	.14	0	1.57	12.23	6.62	.77	.50	0	0	.04	0	.01	21.90
226B	BURBANK FIRE STATION	.24	.37	.67	15.59**	9.69	1.04	.88	.03	.11	.07	0	0	29.49**
227D	SAN GABRIEL – BRUINGTON	.34	.33	.70	18.11	11.12	1.60	.76	.01	.089	0	0	0	33.05**
228B	BEVERLY HILLS – CITY HALL	.53	.36	1.46	17.90	7.20	1.17	.49	T	0	.06	0	0	29.15
235C	HENNIGER FLATS	.72	.61	1.33	30.91	17.06	2.36	1.62	.31	.74	.16	0	0	55.82
237D-E	STONE CANYON RESERVOIR	.64	.46	1.35	25.29	8.98	1.49	.60	.05	.04	.36	0	0	37.30
238	HOLLYWOOD DAM	.36	.44	1.03	17.65	7.74	1.32	.39	T	T	.07	0	0	28.20
241C	LONG BEACH – CITY HALL	.38	.44	1.65	9.46	4.65	.82	.24	.04	0	.11	0	0	17.79
246C	CULVER CITY	.81	.42	1.54	15.55	5.86	.89	.61	0	0	0	0	0	25.68
250D	ACTON CAMP	.85	.06	.52	8.52	6.91	.92	.74	.30	0	T	0	0	18.94
251C	LA CRESCENTA	.19	.24	1.60*	27.15	14.41	1.48	1.34	.04	.49	.06	0	0	47.00
255D	MOUNT SAN ANTONIO COLLEGE – SPADRA	.41	.49	1.18	15.55	10.36	1.25	.75	.12	.02	.68	0	0	30.25
260C	POMONA – FIRE STATION	.53	.47	.97	13.92	10.28	1.18	.77	.08	0	0	0	0	28.20
267	GRIFFITH PARK NURSERY	.35	.38	1.00	19.20	6.74	1.49	.55	0	0	0	0	0	29.71
269D	CHATSWORTH – TWIN LAKES	.71	.49	1.65	16.32	6.69	.69	.53	.10	.08	.10	0	0	27.36
2610	ACTON – HUBBARD ROAD	.75	.29	.91	7.73	6.75	.66	.86	.32	.36	.31	0	0	19.94
263F	POMONA – RIVERA	.23	.73	1.41	12.83	11.33	1.50	.70	.12	0	.14	0	0	28.99
264D	SAND CANYON – GORMAN CANYON	.40	.42	1.43	INC.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.
265D	PUENTE HILLS – WEISEL RANCH	.26	.28	1.20	14.03	9.79	1.17	1.01	.04	.04	.07	0	0	27.89
269C	DIAMOND BAR – HORSE CAMP	.19	.47	1.30	15.34	12.18	1.09	.83	.09	.01	0	0	0	31.30
270C	COUNTY FARM – RANCHO LOS AMIGOS	.43	.30	1.36	10.81	5.90	.79	.65	.02	0	T	0	0	20.29
272D	LOS ANGELES HEADWORKS PUMPING PLANT	.27	.34	.76	16.82	9.44	1.34	.64	0	.03	.05	0	0	31.69
274B	ACTON – HUBBARD	.53	.33	.90	7.71	6.43	1.04	.80	.24	.09	.23	0	0	19.22
275	SAN MARINO – HUNTINGTON LIBRARY	.54	.39	.75	18.25	11.98	1.66	.97	.05	.15	.07	0	0	35.01
277	SAWMILL MOUNTAIN RANCH	.53	.50	1.32	14.19	17.21	1.74	1.97	.28	.04	N.R.	N.R.	N.R.	INC.
278B	LOS ANGELES – CLARK MEMORIAL LIBRARY	.82	.36	1.50	14.16	7.21	.77	.63	.04	0	.09	0	0	25.58
280B	FLINTRIDGE FIRE STATION	.28	.38	1.04	22.45	11.17	1.69	.91	.06	.27	.14	0	T	38.41
283C	CRYSTAL LAKE	.53	.76	2.71	40.41	26.62	2.34	1.97	1.16	0	.23	T	.04	76.77
284D	PLACERITA CANYON	.25	.27	1.03	17.95	14.16	.21	1.30	.10	.15	.30	0	0	35.84
285C	MOUNT ST. MARY'S COLLEGE	.75	.65	1.81**	23.16	8.78	.72	.62	0	0	.90	0	0	36.89
287B	GLENDORA	.40	.65	1.20	19.49	13.15	2.84	1.10	.19	.16	.06	0	T	38.84
289	LAGUNA-BELL – SO. CALIFORNIA EDISON CO. SUBSTA.	.19	.34	1.08	13.46	7.22	1.16	.81	.01	0	.03	0	0	24.27
290B	MONTEREY PARK – FIRE STATION	.70	.35	.89	16.36	9.17	1.73	.70	.01	T	0	0	T	29.91
291	LOS ANGELES – 85TH AND CENTRAL	.22	.30	1.29	14.37	5.75	.97	.56	.02	0	.10	0	0	23.60
292D-E	ENCINO RESERVOIR	.59	.60	1.30	21.23	10.33	.69	.49	.11	T	.43	0	0	35.87
293-E	VAN NORMAN LAKE – LOWER	.50	.45	1.62	13.66	8.34	1.42	1.14	.08	.12	.40	0	T	27.73
294B	SIERRA MADRE – MIRA MONTE PUMPING PLANT	.52	.63	1.11	28.06	15.16	2.35	1.20	.18	.74	.12	0	0	51.11
295C	GLENDALE – STAPENHORST	.24	.41	.90	19.24	9.35	1.34	.74	.03	.06	.14	0	0	32.75
298B	GORMAN	0	.62**	1.01*	6.18*	5.94	1.08	1.04	.08	.36	0	0	0	18.51*
299F	LITTLE ROCK	.26	.07	.30	2.92	3.57	.21	.43	.37	.01	.29	T	0	8.43
303F	PASADENA – CAL TECH.	.27	.38	.88	19.53	12.26	1.55	.87	.05	.11	T	0	0	35.91
304	SAWPIT CANYON – DEER PARK	.61	1.00	1.69	INC.	22.52	2.05	2.04	.43	.51	.10	0	0	INC.
306M	ZUMA BEACH	.46	.49	1.29	14.47	7.06	.35	.94	.04	T	.28	T	.16	24.92
311b	PASADENA METEOROLOGICAL STATION	.31	.42	1.04	18.99	11.30	.87	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.
312B	AZUSA PLANT – GLENDORA WATER DEPARTMENT	.25	.78	1.16	20.75	13.75	2.29	1.18	.19	.31	.10	T	0	40.78
321-E	PINE CANYON PATROL STATION	.31	.63	1.35	18.33	18.47	.57	1.31	.30	.05	.55	0	0	41.88
322	MUNZ VALLEY RANCH	0	.17	.54	7.09	8.04	.09	.56	.10	.12	0	0	0	16.71
324B-E	COGSWELL DAM	.46	.65	1.84	42.54	29.04	2.09	1.67	.35	.02	.11	T	0	78.97
326-E	SILVER LAKE RESERVOIR	.25	.46	.89	15.94	8.16	1.53	.57	.01	0	.04	0	0	27.85
328A	MOUNT WILSON – OBSERVATORY	.84	1.28	2.21	46.38	25.85	2.26	2.11	.27	.02	.32	0	0	81.27
328B	MOUNT WILSON – AIRWAYS	.57	.93	2.06	37.91	20.49	2.00	1.63	.28	0	.32	0	0	66.41
330	WALNUT FRUIT GROWERS' ASSOCIATION	.24	.52	1.50	16.41	13.45	1.15	.77	.16	0	0	0	0	34.23
341	ALISO CANYON – BLUM RANCH	.50	.20	.51	6.59	6.63	1.26	.85	.45	.34	0	0	0	17.33
342C	UPLAND – EUCLID PUMPING PLANT	.25	.72	1.20	18.12	12.53	1.60	1.03	.34	0	0	0	0	35.79
347-E	BALDWIN PARK EXPERIMENTAL STATION	.58	.45	.90	18.93	7.68	1.95	.88	.08	.51	0	0	0	27.56
348D	EAST FORK – RANGER STATION	.10	.73	.25	34.30	25.18	1.93	1.48	.50	0	.13	0	0	66.20
349D	CAMP RINCON	.17	.86	1.68	37.30*	27.14	2.26	1.67	.12	.03	.05	0	0	71.08*
352B	LECHUZA PATROL STATION	.73	.67	1.76	23.07	8.85	.36	1.66	0	.06	.13	0	0	36.59
355B	LOS ANGELES – CITY COLLEGE	.34	.46	1.00	15.87	8.43	1.11	.60	.03	.01	.09	0	T	27.94
356C	SPADRA – PACIFIC COLONY	.25	.44	1.32	13.87	10.00	1.41	.76	.14	T	.04	0	0	28.23
357	VAN NORMAN LAKE – UPPER	.40	.39	1.57	16.79	8.00	1.42	1.19	.07	.09	.25	0	0	30.17
363C	WILSON CANYON	.38	.50	2.24	24.81	14.34	1.24	1.84	.06	.38	.32	0	0	46.69
364	HAINES CANYON – LOWER	.28	.72	1.55	26.97	16.92	1.31	1.58	.10	.11	.10	0	0	49.64
365C	MT. LUKENS	.29	.59	1.67	21.34	16.77	1.60	1.37	.02	T	.14	0	T	43.99
367	HAINES CANYON – UPPER	.30	.55	1.67	27.92	17.61	1.58	1.72	.14	.16	.12	0	0	51.77
372	SAN FRANCISQUITO POWER HOUSE NO. 2	.87	.34	1.38	15.40	9.64	1.18	.28	.09	.01	.15	0	T	30.05
376D	BRIGGS TERRACE	.34	.74	1.80	31.93	17.72	1.98	1.59	.16	.92	.19	0	T	55.73
377F	LAKE SHERWOOD ESTATES	.41	.62	1.20	23.07	11.03	.47	.98	0	0	.40	0	.14	38.32
379D	SAN GABRIEL – EAST FORK	.20	.67	1.47	35.38	22.60	1.93	1.38	.31	.05	.02	0	T	64.02
386C	ZUMA CANYON – OAKLEY	.83	.74	1.97	30.28	11.81	.42	1.22	.02	.08	.48	0	.04	47.87
387B	COVINA CITY YARD	.51	.45	2.63	14.11	9.45	1.84	.96	.09	0	.08	0	0	30.32
388D	PARAMOUNT – COUNTY FIRE STATION	.17	.09	1.73	11.25	6.06	.73	.62	0	0	.30	0	0	20.95
390D-E	MORRIS DAM	.32	.77	1.56	29.56	17.35	2.00	1.47	.32	.20	.06	0	.02	53.65
391C	MONTEBELLO – FIRE DEPARTMENT	.42	.35	.97	13.95	8.72	1.60	.64	.09	0	.04	0	T	26.72
394	HIGHLAND PARK – LINDSAY	.24	.38	.94	17.25	9.98	1.70	.81	.09	T	.02	0	.02	31.52
395D	OLIVE VIEW SANITARIUM	.68	.37	1.84	18.19	10.61	1.05	1.55	.05	.32	.31	0	T	34.77
402F	CEDAR SPRINGS	25*	.37	3.94	31.76	INC.	INC.	1.89	.56	0	.58	0	0	INC.
405B	SOLEDAD CANYON – ECKLES	1.10	.24	.79	12.19	11.19	.59	.83	.11	0	.12	0	0	27.17
406C	WEST AZUSA	.39	.67	.98	16.04	11.87	1.67	1.00	.09	.12	.13	0	0	32.76
409-E	RIDGE ROUTE – STATE HIGHWAY MAINTENANCE STATION	.38	.20	1.03	14.56	10.74	.73	1.09	.32	.70	0	0	0	29.74
415	SIGNAL HILL – CITY HALL	.31	.46	1.41	10.21	5.38	.67	.42	.04	0	.06	0	0	18.96
419B	SANTA CLARA RIDGE – MT. GLEASON	.52	.59	2.57	26.29	14.87	1.32	1.66	.23	.09	.36	0	0	48.50
420C	ACTON – COLOMBO RANCH	1.09	.10	.77	11.47	10.03	.92	.97	.35	0	0	0	0	26.20
422G	PACOIMA CANYON	.30	.55	1.67	27.37	INC.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
423A	ALISO CANYON – WAGON WHEEL RANCH	.86	.52	1.71	16.56	13.35	1.61	.58	.38	.22	.55	.04	0	36.38
425B-E	SAN GABRIEL DAM	.32	.70	1.56	36.71	21.07	2.43	1.74	.35	.12	.04	.05	0	65.09
432	SANTA ANITA – FERN LODGE	.50	1.01	1.92*	INC.	26.18	2.16	2.02	.39	.11	.17	T	0	INC.
433C	FAIR OAKS DEBRIS BASIN	.33	.53	1.15	46.28	14.27	1.69	1.29	.22	.48	0	0	0	66.20
434	AGOURA	.57	.48	1.39	20.74	11.13	.54	.80	0	0	.09	0	0	35.74
435	MONTE NIDO	.70	.50	1.74	25.46	11.78	.39	1.00	0	0	.07	0	0	41.64
436C	HANSEN DAM	.32	.30	1.21	14.39	8.05	.86	.65	.01	.14	.24	0	0	26.39
437	HAMILTON BOWL – LONG BEACH	.30	.50	1.40	9.54	5.45	.57	.39	0	0	.13	0	0	18.28
440C	CHILAO – UNITED STATES FOREST SERVICE CAMP	.84	.66	1.90	21.61	16.03	2.25	1.60	.50	.02	.34	.13	.01	47.49
441D	PALMDALE – COUNTY ROAD MAINTENANCE YARD	.01	.02	.55	4.00	3.48	.19	.80	.12	0	.75*	0	0	10.42**
442C	MESCAL CREEK	.12	.29	.39	2.24	4.07	.57	.22	.24	T	.32	0	.02	8.58
443B	LATIGO CANYON – BEACH RANCH	.83	.69	1.83	33.45	12.75	.81	1.23	.03	.11	.25	.02	0	51.70
444F-E	ROLLING HILLS – SO. COAST BOTANICAL GARDENS	.38	.49	1.88	14.09	6.24	.56	.64	.08	T	T	0	T	25.26
445B	LIVE OAK DAM	.29	.61	1.12	18.68	13.56	1.72	1.02	.18	T	0	0	0	37.16
446	ALISO CANYON – OAT MOUNTAIN	.82	.56	2.12	21.59	10.03	1.22	1.10	.20	.23	.20	0	0	38.09
447C	CARBON CANYON	.56	.35	1.01	14.12	6.73	.39	.49	.10	0	.13	0	0	23.91
448B	EATON WASH DAM	.39	.48	.89	22.07	13.58	1.62	.89	.12	.41	.04	0	0	40.50
451C-E	CASTAIC-WAYSIDE HONOR RANCH	.65	.40	1.45	10.44	7.32	.40*	.96*	.21*	0	0	0	0	21.85**
453C	DEVIL'S GATE DAM	.27	.48	1.05	24.59	12.74	1.58	1.09	.09	.32	.05	0	0	42.25
455B	LANCASTER – STATE HIGHWAY MAINTENANCE STATION	.06	.09	.18	3.41	2.84	.08	.43	.12	.07	.04	0	0	7.32
456	PIUTE BUTTE	.07	.26	.38	1.65	2.56	.15	.35	.19	.23	.25	0	.28	6.60
458	ZUMA CANYON PATROL STATION	.55	.56	1.33	14.71	7.14	.39	.51	0	0	.20	0	T	25.39
460B	PLEASANT VIEW MESA – NEAL	.10	.20*	.82	7.11	7.34	.46	.97	.23	0	0	0	0	17.23**
462B	HILLCREST COUNTRY CLUB – LOS ANGELES	.70	.35	1.24	18.50	7.83	.89	.65	T	0	.17	0	T	30.33
463B	MAR VISTA – SOUTHERN CALIFORNIA WATER COMPANY	.76	.45*	1.54*	12.80*	5.61	.79	.60	0	0	.31	0	0	22.36*
465C	SEPULVEDA DAM	.40	.56	.91	16.26	9.00	.66	.41	.03	.08	.61	0	0	28.72
466B	PACOIMA CANYON – DUTCH LOUIE CANYON	.38	.53	1.89	24.89	12.21	1.36	1.62	.28*	.60*	.21	0	0	43.97**
468	PICKENS DEBRIS BASIN	.58	.60	1.65	26.40	INC.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
470	TUJUNGA – MILL CREEK	.23	.38	2.06	15.25	9.65	1.48	.92	.38	0	.40	0	0	30.74
471	LITTLE TUJUNGA – GOLD CREEK	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.

TABLE XIV (Continued)

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1968-69

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
474B	SOUTH GATE – FIRE DEPARTMENT	.20	.36	1.35	12.11	6.54	1.38	.51	.09	0	.03	0	0	22.49
475	SAUGUS – NEWHALL LAND AND FARMING COMPANY	.36	.30	.94	13.70*	9.13	.50	.85	.10	0	0	0	0	25.18
476H	TRIUNFO CANYON	.38	.49	1.68	21.56	10.18	.42	.80	0	0	.07	0	0	35.68
477D	SANTA ANITA – SPRING CAMP	.56	1.09	1.77	47.50	26.90	2.23	2.25	.42	.34	.18	0	0	83.14
478	VALYERMO – UNITED STATES FOREST SERVICE HDQTRS.	.23	.10	.65	7.04	9.54	.28	1.13	.37	0	.14	0	.01	19.49
480E	TEMPLE CITY FIRE STATION	.42	.37	.73	15.21	11.48	1.24	.66	.07	0	.04	0	T	30.27
482	LOS ANGELES – UNIVERSITY SOUTHERN CALIFORNIA	.61	.35	1.23	12.70	6.67	.68	.61	0	0	.13	0	0	23.18
486B	COLDWATER CANYON – WIDMAN RANCH	.44	.79	2.07	34.24	23.98	1.75	1.55	.85*	0	.13	0	0	65.90**
486B	KAGEL CANYON PATROL STATION	.35	.38	1.29	12.50	7.33	1.27	1.13	.02	0	0	0	0	24.27
492C	CHILAO – STATE HIGHWAY MAINTENANCE STATION	.44	.50	1.62	24.55	18.12	1.77	1.42	.36	.02*	.32*	.13*	0	49.29**
497	CLAREMONT – SLAUGHTER	.28	.07	1.14	17.04	12.75	1.40	1.03	.19	0	.05	0	06	34.62
498	ANGELES CREST HIGHWAY – DARK CANYON TRAIL	.40	.73	2.23	34.30	17.09	2.04	1.79	.03	T	.30	0	T	58.91
508D	ARROYO SECO – RANGER STATION	.25	.51	1.25	26.17	14.64	1.63	1.26	.09	.56	0	0	0	46.36
517B	ANDERSEN RANCH – (LEWIS RANCH)	.15	.33	.93	13.98	13.71	.46	1.52	.36	.20	.22	0	0	31.86
542-E	FAIRMONT	.21	.60	.71	14.40	14.69	.55	1.15	.18	.03	.29	0	.07	33.26
560B	LA VERNE HEIGHTS	.37	.73	1.60	14.56	19.83	1.44	1.05	.22	0	.18	0	.04	39.42
564C	LLANO	T	.15	.39	2.95	3.19	.10	.40	.16	.05	.20	0	0	7.59
565B	LONG BEACH – CITY AUTOMATIC	.31*	.41*	1.46	9.58	4.54	.64*	.23	.05	0	0	0	0	17.20**
565	LONG BEACH NO. 1	.34	.51	1.77	11.46	5.52	1.00	.48	.04	0	0	0	0	21.12
575C	LONG BEACH – WEATHER BUREAU	.45	.34	1.73	14.50	5.87	.32	.38	.07	T	0	0	0	23.67
587B	SAN ANTONIO CANYON POWER HOUSE NO. 1	.45	.66	1.48	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
588D	MOUNT LOWE	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
593B	NEWHALL RANCH	.76	.54	1.80	17.42	12.61	.41	.93	0	0	0	0	0	34.47
610B	PASADENA – CITY HALL	.35	.43	.91	16.74	11.30	1.82	.84	.14	.22	.01	0	T	32.76
611C	ALTADENA GOLF COURSE	.28	.53	1.04	24.43	INC.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
612	PASADENA – CHLORINE PLANT	.35	.54	1.32	25.31	13.98	1.92	1.23	.15	.66	.03	0	0	45.37
613D	PASADENA – HURLBUT FIRE STATION	.35	.42	.87	19.42	11.50	1.85	.86	.07	.11	.04	0	.01	35.50
617B	POMONA – ADAMSON	.47	.49	1.29	13.59	11.09	1.64	.71	.11	0	.03	.02	0	29.44
619	SAN ANTONIO CANYON SIERRA POWER HOUSE	.45	.82	2.55	41.72	24.80	1.97	2.17	1.12	0	0	0	0	80.70
627	SAN GABRIEL CANYON – POWER HOUSE	.32	.61	1.38	23.41	14.96	2.44	1.29	.34	.41	.09	0	0	45.45
634C	SANTA MONICA	.67	.39	1.53	14.07	5.84	.81	.67	.01	0	.55	T	T	24.54
647H	TUJUNGA	.30	.49	1.20	17.14	16.25	1.04	1.10	.09	.28	.15	0	0	38.14
662C	LONG BEACH – CERRITOS AVENUE	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.
666C	LONG BEACH – REECE STREET	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.
672	EAGLE ROCK-SOUTHERN CALIFORNIA EDISON CO. SUBSTA.	.34	.41	.98	19.40	10.63	1.69	.86	.09	.02	.12	0	.02	34.76
673D	ALAMITOS BAY	.40	.39	1.35	11.67	5.55	.76	.38	.11	0	.02	0	0	20.63
678	PASADENA – SHELDON RESERVOIR	.27	.45	1.09	21.14	12.23	1.96	.98	.09	.39	.02	0	0	28.62
679	PUENTE – NO. WHITTIER HEIGHTS	.39	.52	2.25	17.23	11.20	1.74	.93	.09	0	.12	0	0	34.53
680B	WESTWOOD – U.C.L.A.	.52	.39	1.41	18.14*	7.02	1.01	.55	.04	T	.25	0	T	29.33**
681A	SIERRA MADRE RANGER STATION	.71	.58	1.39	35.05	19.39	2.45	1.19	.22	1.11	.09	0	0	62.17
683	SUNSET RIDGE GUARD STATION	.25	.53	1.25	26.80	14.27	1.56	1.24	.02	T	.70	0	T	46.62
694F	BIG TUJUNGA CANYON	.22	.45	1.12	15.18	12.18	1.23	1.29	.12	0	.23	0	0	32.02
695B	TUJUNGA CANYON – VOGEL FLAT	.26	.78	1.75	33.38	25.43	1.87	1.76	.12	0	.23	0	0	65.58
703	GLENDALE – MC INTYRE	.34	.42	.85	18.06	9.13	1.19	.62	.04	.09	.05	0	0	30.79
705	ALDER CREEK – PARADISE RANCH	.29	.65	1.89	INC.	8.75	2.54	1.50	.28	.55	.10	0	0	INC.
716	LOS ANGELES – DUCOMMUN STREET	.55	.38	1.29	15.11	7.91	1.86	.66	.02	0	.03	0	T	27.81
718B	THOUSAND OAKS	.44	.62	1.12	18.32	9.32	.69	.95	T	T	.34	0	.10	31.90
720B	SIMI VALLEY – SUSANA KNOLLS	.45	.48	.90	15.21	9.70	.75	.76	.07	.04	0	0	0	28.36
722C	BELLEVIEW	.11	.15	.64	6.94	5.52	.38	1.01	.15	.05	.21	0	0	15.16
725B	BIRMINGHAM HOSPITAL	.40	.47	1.09	14.72	5.12	.58	.45	.10	0	.39	0	0	27.32
726B	ANGELES CREST GUARD STATION	.31	.68	1.87	33.13	16.32	1.68	1.46	.02	T	.60	0	T	56.06
727B	NEWCOMB PASS	.69	.78	2.59	INC.	N.R.	N.R.	N.R.	.43	.09	.25	0	T	INC.
728	PACOIMA CANYON – CITY ROAD GAGE	.38	.74	2.16	25.00*	22.40	2.00	1.45	0	.14	.09	0	T	INC.
730	MILLARD CANYON – DAWN MINE	.23	.74	1.66	24.16	20.59	1.84	1.88	T	T	.50	0	T	51.60
731	OAK GROVE HEADQUARTERS – U.S.F.S. FLOOD CONTROL	.29	.42	.98	23.81	12.69	1.32	1.00	.05	T	.20	0	T	40.76
732E	ROBERT'S CANYON – SAN GABRIEL WEST FORK DIVIDE	.51	1.00	1.82	43.54	24.66	2.04	2.06	.38	.22	.16	0	0	75.22
734B	LOS ANGELES INTERNATIONAL AIRPORT	.32	.24	1.42	9.60	3.76	.42	.38	T	T	.15	0	.01	16.30
735H	BELL CANYON	.50	.53	1.19	15.31	6.91	.54	.62	.05	0	.08	0	0	25.73
740B	SAN DIMAS CANYON – FERN NO. 2	.35	.78	2.70	INC.	INC.	1.92	1.65	.58	0	0	0	0	INC.
741	SAN DIMAS CANYON – UPPER EAST FORK	.28	.70	1.92	INC.	18.72	2.26	1.61	.47	.33	.13	0	0	INC.
742C	SAN GABRIEL – FIRE DEPARTMENT	.32	.57	.72	18.16	11.38	1.76	.77	.04	.20	.07	0	0	33.99
747	SANDBERG – AIRWAYS STATION	.43	.19	.72	7.43	5.36	.56	.75	.38	.33	.20	T	.01	16.36
749B	BURBANK	.28	.34	.81	14.16	9.33	.92	.86	T	.12	.05	0	0	26.57
750	PALMDALE – FEDERAL AVIATION AGENCY AIRPORT	.31	.11	.28	3.04	2.87	.15	.37	.13	.11	.15	T	T	7.47
755	GRIFFITH PARK – LITTLE CANYON	.26*	.41	.86	16.39	9.44	1.03	.52	T	0	0	0	0	31.01**
757	GRIFFITH PARK – FERN DELL	.23	.41	.88	17.27	9.09	.80	.59	T	0	0	0	0	29.27
758	GRIFFITH PARK – LOWER SPRING CANYON	.19	.32	.77	19.26	9.50	.93	.64	T	0	0	0	0	31.61
759B	NICHOLS DEBRIS BASIN	.40	.63	.98	18.59	7.38	.77	.52	.05	0	.06*	0	0	29.20**
760H	STUDIO CITY – GOODLAND AVENUE	.38	.35	.97	19.27	9.90	.64	.57	.05	.01*	.22*	0	.01*	32.37**
762	UPPER STONE CANYON	.75	.35	1.08	23.37	10.35	.65	.51	.10	.01*	.33*	0	.01*	37.51**
763B	SEPULVEDA CANYON – EAST FIRE ROAD NO. 19	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
764	STONE CANYON – RIAL LANE	.55	.27	1.26	21.93	9.19	.69	.45	.10	.03*	.97*	0	0	35.44**
766	MANDEVILLE FIRE ROAD NO. 24	.45	.44	1.45	25.54	12.69	.62	.55	.07	0	1.65*	0	0	43.46**
767	MANDEVILLE CANYON ROAD	.67	.28	1.36	24.59	11.82	.67	.60	.05	0	1.00*	0	0	41.04**
768	SULLIVAN CANYON – FIRE ROAD NO. 26	.65*	.48	1.41	26.05	12.42	.66	.59	.18	.04	1.10*	0	0	43.56**
770D	SANTA YNEZ CANYON – PASEO MIRAMAR	.50	.38	.82	12.75	6.51	.56	.63	.05	0	.35*	0	0	22.50**
771	RUSTIC CANYON – SANTA MONICA	.53	.48	1.50	19.04	6.73	.85	.71	.03	0	.45*	0	0	30.32**
772	LOS ANGELES – ECHO PARK AND LUCRETIA	.35	.32	.91	15.74	9.66	1.12	.59	.04	0	.04*	0	0	28.79**
774	BARLOW SANITARIUM	.33	.35	.90	13.76	8.59	1.30	.56	.05	0	.04*	0	0	25.91**
777	KENTER CANYON	.56	.40	1.71	19.62	7.85	.75	.51	.05	0	.34*	0	0	31.79**
778B	SEPULVEDA CANYON – BELLAGIO ROAD	.68	.50	1.57	21.26	8.43	.73	.63	.19	0	.39*	0	0	34.40**
779	GRIFFITH PARK – LOWER MINERAL WELLS	.19	.48	.77	21.49	10.56	.85	.66	T	.03*	.09	0	0	35.12*
783	COON CANYON	.25	.49	1.26	25.77	16.10	1.38	1.18	.05	T	.54	0	T	47.02
786	COON CANYON	.10	.54	1.44	24.36	13.05	1.67	1.28	T	T	.45	0	T	42.91
788	COON CANYON	.18	.60	1.44	27.74	14.02	1.36	1.16	T	T	.85	0	T	47.37
789	EL PRIETO CANYON	.31	.69	1.52	25.69	15.35	1.64	1.38	.06	T	1.04	0	T	47.62
793	MARKHAM SADDLE	.48	.57	2.00	INC.	21.90	1.70	1.73	T	T	.14	0	T	INC.
794-E	LOWER FRANKLIN RESERVOIR	.59	.71	1.38	17.31	6.56	1.23	.54	.03	0	.19	0	0	28.48
795	PASADENA – JOURDAN	.47	.46	1.24	19.48	11.15	1.67	.82	.11	.37	.02	0	0	35.89
796	ELYSIAN PARK – FIRE DEPARTMENT	.41	.26	.67	13.67	7.46	1.30	.60	.05	0	.04*	0	0	24.66**
797	DE SOTO RESERVOIR	.63	.49	1.54	16.35	7.34	.69	.63	.06	.04	.16	0	0	27.93
801B	MAGIC MOUNTAIN	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
802B	EAGLE ROCK RESERVOIR	.31	.44	.80	19.33	10.70	1.65	.82	.09	.13	.09	0	.04	34.40
807	ASCOT RESERVOIR	.61	.37	.92	15.09	8.54	1.81	.72	.05	0	0	0	0	28.21
1000	HUNT CANYON – BONES RANCH	.15	.19	.64	4.29	5.36	.92	.66	.27	.31	0	0	0	12.79
1005B	MINT CANYON FIRE STATION	.66	.45	1.08	11.97	9.46	.70	1.20	.10	0	.13	0	0	25.87
1006	SAN PEDRO – CITY RESERVOIR	.24	.49	1.83	12.54	4.52	.75	.54	.04	0	.20	0	T	21.15
1007C	CAMP VALCREST	.79	.66	2.42	23.27	19.31	2.30	1.68	.56	0	.85	.05	0	51.51
1008-E	LA FRESA – SOUTHERN CALIFORNIA EDISON CO. SUBSTA.	.28	.28	1.65	9.95	4.42	.78	.60	0	0	.07	0	0	18.03
1009	MINT CANYON – DYER	T	.65*	.86	11.20	11.39	.51	1.12	.14	.25	.18	0	T	26.30**
1010C	PALMER CANYON – FORKS	.41	.80	1.50	26.46	16.64	1.51	1.34	.42	0	0	0	0	49.08
1011E	PALOS VERDES FIRE STATION	.49	.60	1.99	12.02	5.18	.55	.03	0	0	.01	0	0	20.87
1012B	CASTAIC JUNCTION	.24	.44	1.04	9.34	8.06	.75	1.00	.21	0	.41	0	0	21.59
1014F-E	RIO HONDO SPREADING GROUNDS	.18	.22	.31	12.36	8.13	1.23	.44	.01	0	0	0	0	23.48
1016B	PALO COMADO CANYON – AGOURA	.49	.51	1.17	18.11	8.49	.63	.57	.01	0	.12	0	0	30.20
1017B	LITTLE ROCK CREEK ABOVE DAM	.57	.25	.66	5.76	7.03	.59	.93	.32	.09	.15*	0	0	16.35**
1018B	SANTA SUSANA MTS. – DEVIL'S CANYON	.69	.72	1.50	13.34	13.98	1.07	1.18	.24	.28	0	0	0	34.00
1019	SANTA SUSANA MTS. – SALT CANYON	.84	.60	1.25	16.16	11.70	.90	.96	.30	.29	0	0	0	32.90
1020B	PADUA HILLS PATROL STATION	.30	.80	1.38	22.38	14.12	1.81	1.12	.32	.02	.04	0	0	42.29
1022	HASLEY CANYON – WESTERN GULF OIL CO.	.92	.47	1.48	17.98	11.19	.16	.94	.22	0	T	0	0	33.36
1023B	SANTA MARIA CREEK – SPEER	.54	.52	1.44	25.90	12.49	.57	.90	.09	0	.15	0	0	42.60
1025	MALIBU BEACH – DUNNE	.61	.34	.81	12.95	6.73	.33	.49	0	0	.10	0	0	22.56
1029	TUJUNGA – MILL CREEK SUMMIT	.03	.34	2.63	14.43	6.03	1.36	.47	.38	0	.55	0	0	27.02
1030	MT. ISLIP – LITTLE JIMMY SPRING	1.27	1.63	2.84	44.38	36.54	2.98	2.63	2.22	0	.18	0	0	94.87
1031B	MT. WATERMAN	.25	.65	2.32	31.74	23.04	5.03	1.55	2.58	0	1.03	0	0	68.09

TABLE XIV (Continued)

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1968-69

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
1035	WHITTIER - WOOD	.32	.27	.96	13.92	8.51	1.60	.69	.02	0	T	0	0	26.30
1037	ARCADIA - ARBORETUM	.40	.58	.86	20.46	13.42	1.79	.91	.06	.22	.22	0	0	38.88
1038D	MT. PACIFICO	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1039B	LOS ANGELES - MAC QUEEN	.34	.28	1.33	15.08	7.64	2.10	.64	.01	0	.13	0	0	27.50
1040	POTRERO CANYON - SUNRAY OX OIL COMPANY	.62	.42	1.44	13.56	6.10	1.01	.76	.15	0	.03	0	T	27.19
1041B	SANTA FE DAM	.32	.44	.94	15.21	10.82	1.92	.90	.05	.05	0	0	0	30.63
1046B	SANTA ANITA CANYON - CHANTRY FLAT	.76	1.01	1.79	39.20	21.00	2.58	1.81	.22	.53	.28	0	0	69.18
1048B	LA CRESCENTA - COUNTY ROAD DEPARTMENT	.23	.55	1.56	27.99	15.23	1.50	1.37	.10	.85	.35	0	0	49.74
1050B	OLD TOPANGA CANYON	.80	.61	1.54	30.74	15.08	.47	1.04	0	.05	.15	0	T	50.48
1051B	CANOGA PARK - PIERCE COLLEGE	.41	.54	1.90	16.20	9.34	.71	.56	.11	0	.11	0	0	29.93
1052	CAMP JOSEPHO	.68	.55	1.61	27.60	10.91	.98	.80	.08	.05	.55	0	0	44.02
1054	VETERANS HOSPITAL - SAN FERNANDO	.39	.41	1.72	16.23	8.23	1.49	1.33	.06	.20	.29	0	0	30.35
1055B	MT. BALDY NOTCH	.60	1.15	4.19	53.70	30.95	4.65	1.50	3.20	T	.55	0	0	100.36
1057B	WHITTIER NARROWS - ABOVE DAM	.57	.34	1.00	13.97	8.63	1.49	.71	.11	0	.01	0	0	26.83
1058B-E	PALMDALE	.22	.08	.52	3.41	4.22	.26	.67	.25	.40	.17	0	T	10.18
1059B	SOUTH MT. HAWKINS	.57	.74	2.68	39.15	25.79	2.27	1.91	1.12	0	.22	T	.03	74.43
1060D	LITTLE ROCK - SYCAMORE CAMP	.30	.21	1.01	10.89	10.86	.83*	1.69	.30	.11	0	0	0	26.20**
1062	BUCKHORN FLAT	.54	.45	2.89	35.63	26.48*	3.18**	1.23*	.70	0	.27	0	0	71.37**
1063	SOLEDAD PASS	.71	.22	.79	5.67	5.27	.81	.95	.55	.33	.41	0	0	15.71
1064E	SAN GABRIEL EAST FORK - DOT MINE	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1065B	LONG BEACH - LEES STREET	.35	.48	1.62	12.46	5.65	.93	.41	.04	0	0	0	0	21.94
1066	RATTLESNAKE CANYON - CAMP NO. 3	.45	.55	1.63	24.65	9.89	.35	1.08	.01	.05	0	0	.01	38.77
1069	SAN GABRIEL EAST FORK TUNNEL	.70	.54	1.91	28.51	19.20	1.70	1.43	.64	0	.17	0	T	55.10
1070	MANHATTAN BEACH	.37	.60	1.60	10.50	4.30	.54	.64	.04	0	.08	0	0	18.87
1071B-E	DESCANSO GARDENS	.25	.58	1.35	25.77	12.59	1.63	1.24	.05	.39	.10	0	0	44.16
1072	LITTLE TUJUNGA RANGER STATION	.31	.39	1.22	13.29	7.89	1.81	1.13*	.02*	.15	0	0	0	26.21**
1073B	PALMDALE - CIRCLE C	.27	.11	.46	5.28	5.81	.70	.56	.27	.29	.41	T	T	12.96
1074	LITTLE GLEASON	.57	.65	2.81	26.79*	16.28	1.44	1.82	.25	.10	.40	0	0	53.10
1075	UPPER WOLFSKILL CANYON	.53	.65	1.65	INC.	20.78	1.56	1.69	.52	.51	.20	0	0	INC.
1076B	MONTE CRISTO RANGER STATION	.22	.58	1.90	24.65	17.74	1.18	1.64	.16	0	.22	0	0	48.30
1077B	MONROVIA - FIVE POINTS	.84	.62	1.29	25.89	15.19	1.30	1.30	.18	.66	.11	0	0	47.58
1078	COVINA - GRIFFITH	.45	.46	1.12	13.71	10.46	1.21	.92	.13	0	.15	0	0	28.59
1079	RUBIO DEBRIS BASIN	.18	.56	1.12	25.65	INC.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1080B	BRADBURY DEBRIS BASIN	.25	.56	1.03	22.41	13.42	2.14	1.21	.19	.57*	.12*	0	0	41.90**
1084	DEER DEBRIS BASIN	.29	.41	1.23	19.80	12.30**	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1082	DUNSMUIR DEBRIS BASIN	.28	.57	1.50	24.10	14.29	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1083	MADDOCK DEBRIS BASIN	.35	.76	1.16	27.57	14.60**	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1084B	MAY DEBRIS BASIN	.48	.39	1.59	16.30	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1085	MC CLURE DEBRIS BASIN	.20	.34	1.01	14.22**	6.70**	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1086	TURNBULL DEBRIS BASIN	.19	.37	1.05	13.27	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1087-E	GREEN VERDUGO PUMPING PLANT	.31	.38	1.17	12.62	9.27	.98	1.00	.07	.07	.07	0	0	26.14
1088B	LA HABRA MTS. MUTUAL WATER CO.	.24	.23	1.10	13.95	8.23	1.12	.76	.06	0	.09	0	0	25.74
1089D	TOPANGA CANYON OUTLET	N.R.	N.R.	INC.	19.94	7.53	.50	.72	.04	0	.25*	0	0	INC.
1090	LOS ALAMITOS	.18	.50	1.87	11.05	5.07	.82	.34	0	0	.10	0	0	20.01
1092B	BUENA PARK	.11	.58	1.70	11.21	7.27	1.27	.82	T	0	0	0	0	22.67
1093-E	FULLERTON AIRPORT	.17	.40	1.67	11.51	7.76	1.21	.52	.04	T	.01	0	0	23.29
1095	ORANGE COUNTY RESERVOIR	.18	.20	1.42	12.74	9.76	1.04	.72	.07	.06	0	0	0	26.27
1099	WHITTIER - CATE	.44	.29	1.04	13.50	8.40	1.32	.70	.01	0	.02	0	T	25.72
1102B	BOBCAT CANYON - SAN GABRIEL WEST FORK	.58	.79	1.88	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1104	BOUQUET CANYON AT TEXAS CANYON	.46	.36	.93	11.13	8.22	1.50	1.10	.18	.03	.24	0	0	24.13
1105B	FARMONT	.17	.14	.35	7.65	6.96	.23	.78	.33	.35	.02	0	0	18.32
1107D	LA TUNA CANYON	.26	.39	1.10	19.62	9.68	1.29	.96	T	.08	.08	0	0	27.45**
1108B	LEONA VALLEY	.40	.39	1.24	8.98	8.58	.59	1.34	.19	.66	.22	0	T	22.61
1109	MT. BALDY	.70	1.34	4.85	62.74	36.17	5.43	1.52	3.74	T	.72	0	0	117.23
1110	SCHOLL DEBRIS BASIN	.27	.40	.85	INC.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1111C	DEVIL'S PUNCHBOWL	.28	.38	1.17	17.31	15.94	.64	1.94	.40	.20	.13	T	.01	37.96
1113	DOMINGUEZ WATER CO.	.45	.44	1.81	11.37	5.50	.66	.50**	0	0	0	0	0	20.43**
1114B	WHITTIER NARROWS DAM	.43	.25	.79	14.04	8.19	1.56	.54	.05	0	0	0	0	26.80
1115	SAN ANTONIO DAM	.29	.67	1.50	25.23	16.37	1.19	1.11	.42	0	.09	0	0	46.81
1116	LONG BEACH - SAN ANSELINE	.28	.49	1.91	12.31	5.75	.96	.43	.05	0	0	0	0	22.19
1117	PINE CANYON GUARD STATION	0	.93	1.74	19.46	21.03	1.25	1.60	.30	.10	0	0	0	46.41
1119B	ATMORE MEADOW	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1120	DAWSON SADDLE	.32	.45	2.08	23.22	19.61	2.06	1.72	.88	.12	.50	0	0	50.96
1121C	BARLEY FLAT	.45	.63	2.60	33.61	23.94	1.85	1.63	.18	0	.36	0	0	65.43
1122	COOKS DEBRIS BASIN	.31	.57	1.47	16.23	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1124B	RED BOX GAP	.52	1.09	2.84**	43.77**	27.27	2.30	2.17	.37	0	.21	0	0	80.54**
1125	LA PUENTE	.69	.39	1.47	15.12	10.91	1.38	.79	0	0	.05	0	T	30.74
1126	LOS ANGELES WATER DEPARTMENT - EAST VALLEY	.32	.29	1.02	13.25	7.60	.89	.61	.01	.05	.19	0	.02	24.47
1127	WEST BURBANK	.29	.31	.63	16.27	9.56	.33	.72	0	0	.09	0	0	28.94
1128	WRIGHTWOOD FIRE STATION	.28	.83	2.16	21.99	16.15	1.31	1.36	.76	1.10	.38	0	.08	46.37
1129	NICHOLAS CANYON	.47	.56	1.11	12.07	4.70	.32	.46	.05	0	.05	0	.05	19.85
1132	OAK FLAT GUARD STATION	1.04	.43	1.20	22.77	16.32	1.00	1.31	.25	.09	0	0	0	44.35
1133	FISH CANYON	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1135	LUNADA BAY	.10	.44	1.26	7.57	3.80	.79	.21	T	0	.02	0	T	14.28
1137B	STOUGH PARK	.24	.50	.91	13.13	6.90	.93	.72	0	.09	.10*	0	0	23.60**
1138	MT. DISAPPOINTMENT	.65	.97	2.49	44.77	17.56	2.38	2.08	T	T	.63	0	T	71.58
1139B	PALOS VERDES HILLS - HIGH RIDGE	.52	.60	2.30	14.25	5.99	.66	.80	0	0	0	0	0	25.12
1140	ROSEMEAD	.54	.28	.84	16.28	10.70	1.63	.71	.07	0	.01	0	0	31.06
1141B	SPRING CANYON	N.R.	N.R.	.51	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1142	SOLEDAD CANYON - BERMITE POWDER CO.	1.12	0	.79	17.21	9.90	.51	.82	0	0	0	0	0	30.35
1144	SAN GABRIEL - NORTH FORK	.09	.62	1.86	35.38	21.01	1.93	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1145	UPLAND	.31	.72	1.27	15.54	14.57	1.45	1.04	.43	0	.05	0	0	39.48
1146	SANTA ANITA CANYON - HELIPORT	.79	.94	1.94	38.07	INC.	INC.	2.05	.26	.34	.20	0	0	INC.
1147	EL CABALLERO COUNTRY CLUB	.50	.52	1.29	19.01	10.95	.66	.59	.12	0	.49	0	0	34.43
1148B	SAN JOSE HILLS	.42	.36	1.11	13.74	10.28	1.33	.79	.07	0	.03	0	0	28.14
1150	LOPEZ CANYON GUARD STATION	.37	.38	1.43	14.47	6.92	1.00	.96	0	.17	.18	0	0	25.87
1151	BRIGDEN RESERVOIR NO. 1	.36	.47	.95	22.77	12.56	1.92	1.00	.20	.45	.02	0	0	40.01
1152	CLEAR CREEK RANGER STATION	.36	.90	2.23*	28.30	17.65	2.54	1.71	0	0	.04	0	0	54.73**
1155	LAWNDALE	.28	.30	1.57	10.75	5.40	.61	.55	0	0	0	0	0	19.46
1157	SAN FERNANDO VALLEY STATE COLLEGE	.40	.43	1.06	12.86	5.88	.70	.39	.09	T	.25	0	0	22.06
1158	TORRANCE MUNICIPAL AIRPORT	.38	.41	1.99	13.32	5.65	.26	.55	.02	0	.02	0	T	22.62
1159	SHORTCUT CANYON - WEST FORK	.66*	.83	3.22	30.73	17.75	1.45	2.20	.80	0	.40	0	0	57.54**
1160	SAN GABRIEL CANYON - WEST FORK HELIPORT	.56	.91	2.05	INC.	INC.	1.90	1.71	.18*	0	.40*	0	0	INC.
1161	LA CRESCENTA - GREGG	.28	.68	1.60	27.38	15.10	1.69	1.42	.14	.69	.16	0	.02	49.14
1162	IRON MOUNTAIN	.25	.57	1.50	29.57	18.35	1.41	1.51	.08	T	.06	0	0	53.31
1163	BEAR CANYON - CRYSTAL LAKE ROAD	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1164	WALTERIA LAKE PUMPING STATION	.12	.36	1.62	10.35	3.74	.42	.55*	.02*	0	T	0	T	17.18**
1165	GARAPITO CREEK	.62	.47	1.33	21.51	9.82	.53	.59	.16	0	.55*	0	0	35.68**
1167	PENNER CANYON	.15	.27	.51	24.61	17.39	.83	1.65	.73	.05	.10	0	0	46.49
1168B	REYNOLDS RANCH - MAXY RANCH	.54	1.28	.83	6.65	6.58	4.90	.55	.12	.32	0	0	0	21.79
1169	LAKE PIRU	1.12	.05	1.73	23.13	6.96	4.89	1.25	.28	0	.14	0	.03	40.01
1170	WATER WORKS DISTRICT NO. 6	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.
1171	CAMULOS RANCH	.73	.60	1.39	17.01	10.57	.50	.93	0	0	.04	0	.02	31.79
1172	PIRU CANYON - ABOVE PIRU LAKE	.93	.38	1.37	19.96	6.76	4.82	1.01	.24	0	.02	0	0	35.51
1174	CASTRO PEAK	.80	.82	1.60	17.72	10.36	.59	.90	T	.13	.10	0	0	32.79
1176B	PIRU	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.
1177	BARD RESERVOIR	.49	.50	.97	11.80	7.36	.64	1.07	0	0	.12	0	0	22.95
1179	BUCK CREEK GUARD STATION	.45	.46	.80	9.25	6.84	.46	.65	0	0	0	0	0	18.90
1180	PACIFIC PALISADES	.61	.30	.82	16.28	7.37	.69	.73	0	0	.33	0	0	27.09
1181	SCHOOLHOUSE CANYON	.57	.35	1.62	18.33	9.37	1.28	1.41	.06	0	.31*	0	0	33.18**
1182	FISH CREEK	.73	.38	1.02	18.68	13.38	1.38	1.32	.15	.20	0	0	0	37.64
1183B	LA HABRA FIRE STATION	.18	.38	1.29	14.30	10.01	1.14	.84	.04	0	.10	0	0	28.28
1184	SAN FRANCISQUITO CANYON CAMP 17	.73	.49	1.60	14.63	15.36	1.01	.92*	.13*	.10*	0	0	0	32.97**
1185	CASTAIC TOWER LOOKOUT	.69	.47	.71	N.R.	N.R.	N.R.	N.R.	.03	0	.25	0	.01	INC.
1186	ROBERTS CANYON - UPPER	N.I.	.66	1.47	34.54	19.05	2.70	1.93	.39	.13	.04	.06	0	INC.

TABLE XIV (Continued)

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1968-69

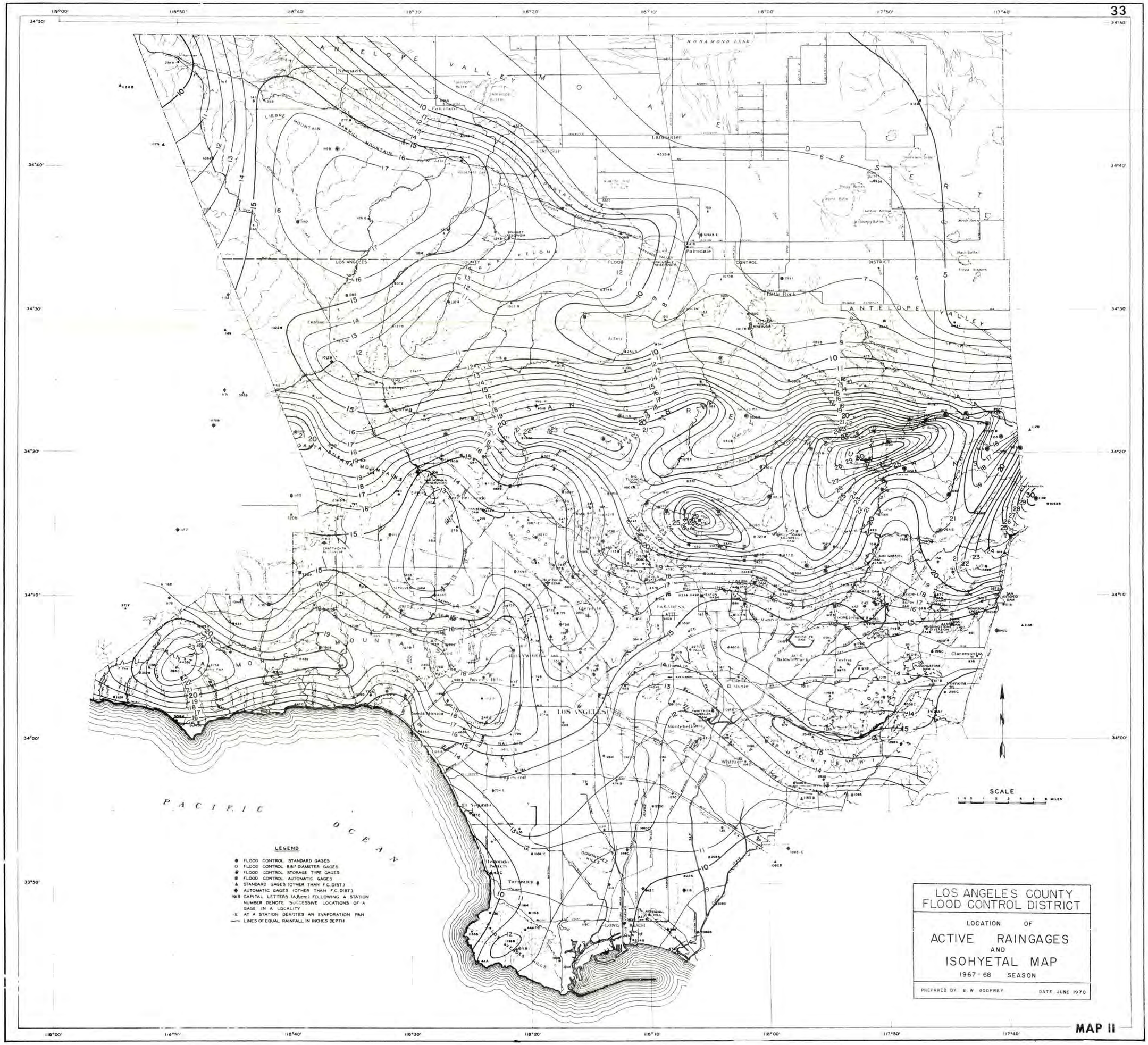
STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
X15B	HI VISTA	.10	.25	.28	1.84	2.51	.25	.34	.09	1.12	.12	0	0	6.91
X19	COOKS CANYON	.26	.44	1.23	21.58	15.34	1.27	1.24	T	T	T	0	T	41.57
X21B	DUNSMORE CANYON - UPPER	.27	.64	1.80	25.70	13.19	1.73	.95	T	T	.14*	0	T	44.42**
X22	ISLIP SADDLE	.90	.81	2.88	25.06	20.46	2.17	1.62	1.06	0	.55	0	0	55.11
X23	DORR CANYON	.21	.29	2.70	27.63	13.3*	1.19	1.40	.70	.15	.78*	0	0	48.36**
X24	GRASSY HOLLOW	.23	.58	1.82	18.81	INC.	INC.	2.12	1.06	.23	.47	0	0	INC.
X25	BEAR GULCH	.49	1.20	2.63	22.65	INC.	INC.	INC.	INC.	INC.	INC.	0	0	INC.
X26	BLUE RIDGE	.15	.37	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	0	0	INC.
X27	GUFFY'S CAMP	.27	.67	2.00	22.63	INC.	INC.	INC.	INC.	INC.	INC.	0	0	INC.
X28B	HOLIDAY HILL	.14	.90	1.72	15.26	12.21	1.91	1.49	.30	.50	.62**	0	T	35.05**
X29	PINE MOUNTAIN	.51	.82**	3.37	46.86**	INC.	INC.	2.20	0	.16	N.R.	N.R.	N.R.	INC.
X33	EAGLE DEBRIS BASIN	.24	.55	1.51	25.58	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
X39	LAS VIRGENES CANYON	.46	.45	1.09	20.36	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.
X40	TURNBULL CANYON - SKYLINE DRIVE	.20	.31	.86	15.13	10.16	1.27	.87	0	0	0	0	0	28.82
X42B	HOOK EAST DEBRIS BASIN	N.I.	.52	1.19	INC.	INC.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
X43	HARROW DEBRIS BASIN	N.I.	.62	1.29	10.18	11.45	1.95	1.18	.17	1.02	N.R.	N.R.	N.R.	INC.
X44	ENGLEWILD DEBRIS BASIN	N.I.	.77	1.33	INC.	INC.	INC.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.

LEGEND

* ESTIMATE - 10% OF TOTAL
** ESTIMATE - 20% OF TOTAL

INC. INCOMPLETE RECORD
N.I. NOT INSTALLED
N.R. NO RECORD

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
ISOHYETAL MAP
STORM OF
NOVEMBER 19-21, 1967
PREPARED BY: P. A. HAIG DATE: JAN. 1968
MAP I
LEGEND
FLOOD CONTROL STANDARD GAGES
FLOOD CONTROL 8.81" 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 LOCATIONS OF A GAGE IN A LOCALITY
-E AT A STATION DENOTES AN EVAPORATION PAN
LINES OF EQUAL RAINFALL IN INCHES DEPTH
SCALE
PACIFIC OCEAN
LOS ANGELES
PASADENA
HOLLYWOOD
Beverly Hills
Santa Monica
Inglewood
El Segundo
Redondo Beach
Torrance
LONG BEACH
Whittier
Montebello
El Monte
Glendale
Burbank
San Fernando
Newhall
Saugus
Castaic
Acton
Palmdale
Lancaster
Del Sur
Fairmont
Neenach
Little Rock
Pomona
Claremont
Glendora
Monrovia
Alhambra
Baldwin Park
Covina
Arcadia
Sierra Pelona
Portal Ridge
Liebre Mountain
Sawmill Mountain
Santa Susana Mountains
Verdugo Mountains
San Gabriel Mountains
Puente Hills
Pinyon Ridge
Dominguez Hills
Palos Verdes Hills
Antelope Valley
Mojave Desert
Rosamond Lake
Elizabeth Lake
Hughes Lake
Pacific Ocean



LEGEND

- ● FLOOD CONTROL STANDARD GAGES
- ○ FLOOD CONTROL 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 LOCATIONS OF A GAGE IN A LOCALITY
- -E AT A STATION DENOTES AN EVAPORATION PAN
- — LINES OF EQUAL RAINFALL IN INCHES DEPTH

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

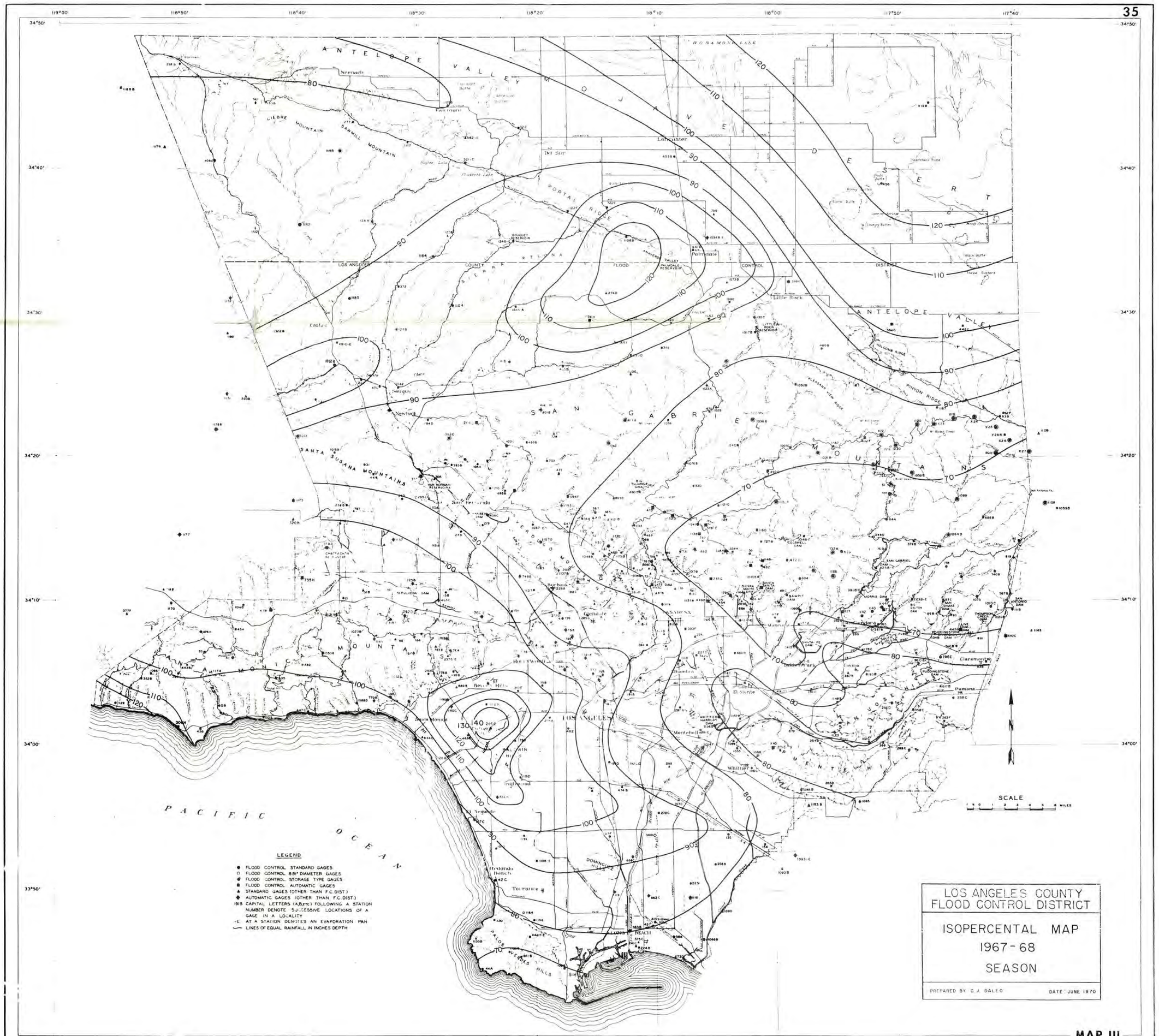
LOCATION OF

ACTIVE RAINGAGES AND ISOHYETAL MAP

1967-68 SEASON

PREPARED BY: E.W. GODFREY DATE: JUNE 1970

MAP II



LEGEND

- ● 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.)
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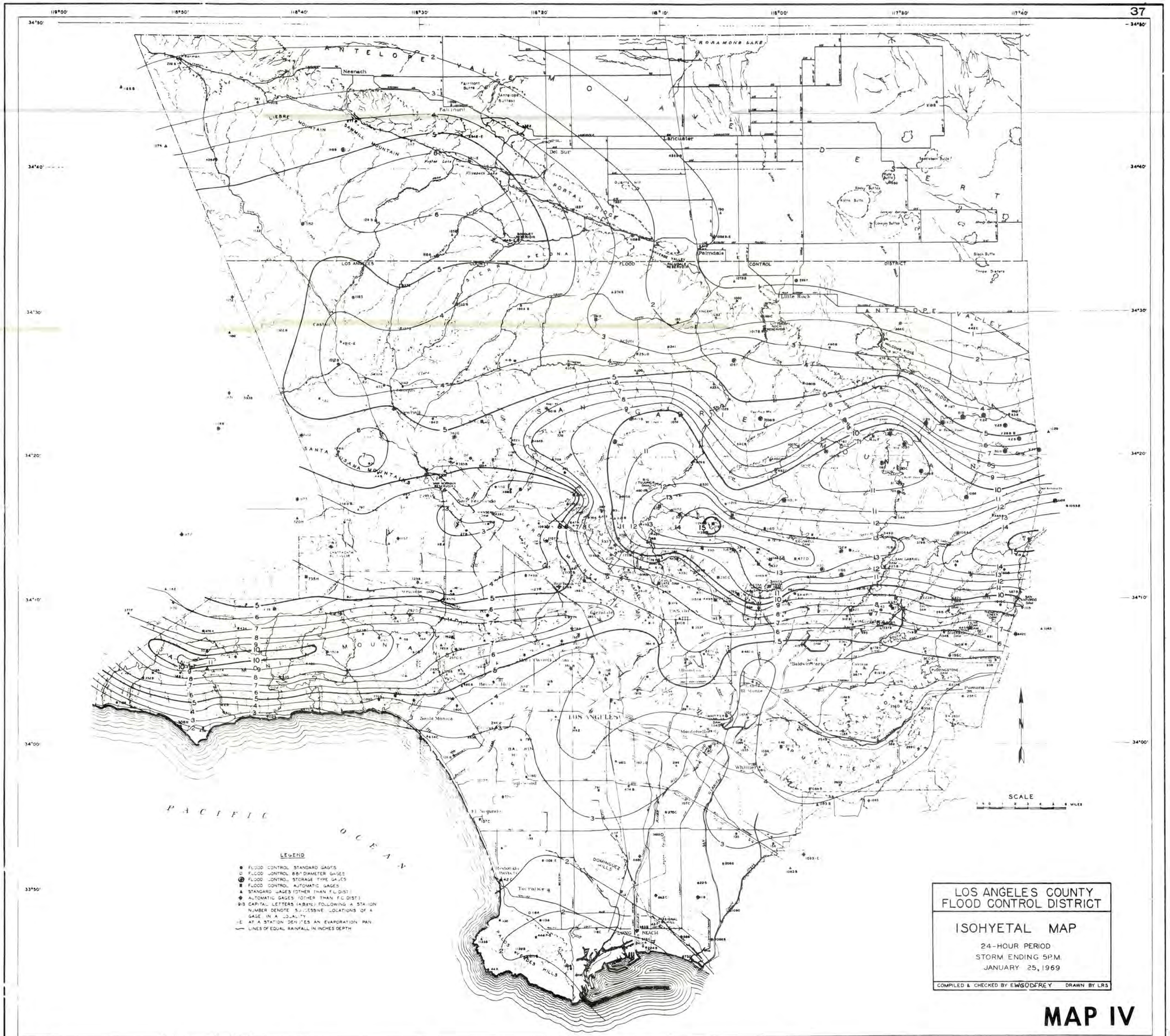
- 1918 CAPITAL LETTERS (A,B,etc.) FOLLOWING A STATION NUMBER DENOTE SUCCESSIVE LOCATIONS OF A GAGE IN A LOCALITY
- -E AT A STATION DENOTES AN EVAPORATION PAN
- — LINES OF EQUAL RAINFALL IN INCHES DEPTH

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

ISOPERCENTAL MAP
1967-68
SEASON

PREPARED BY C.J. DALEO — DATE: JUNE 1970

MAP III



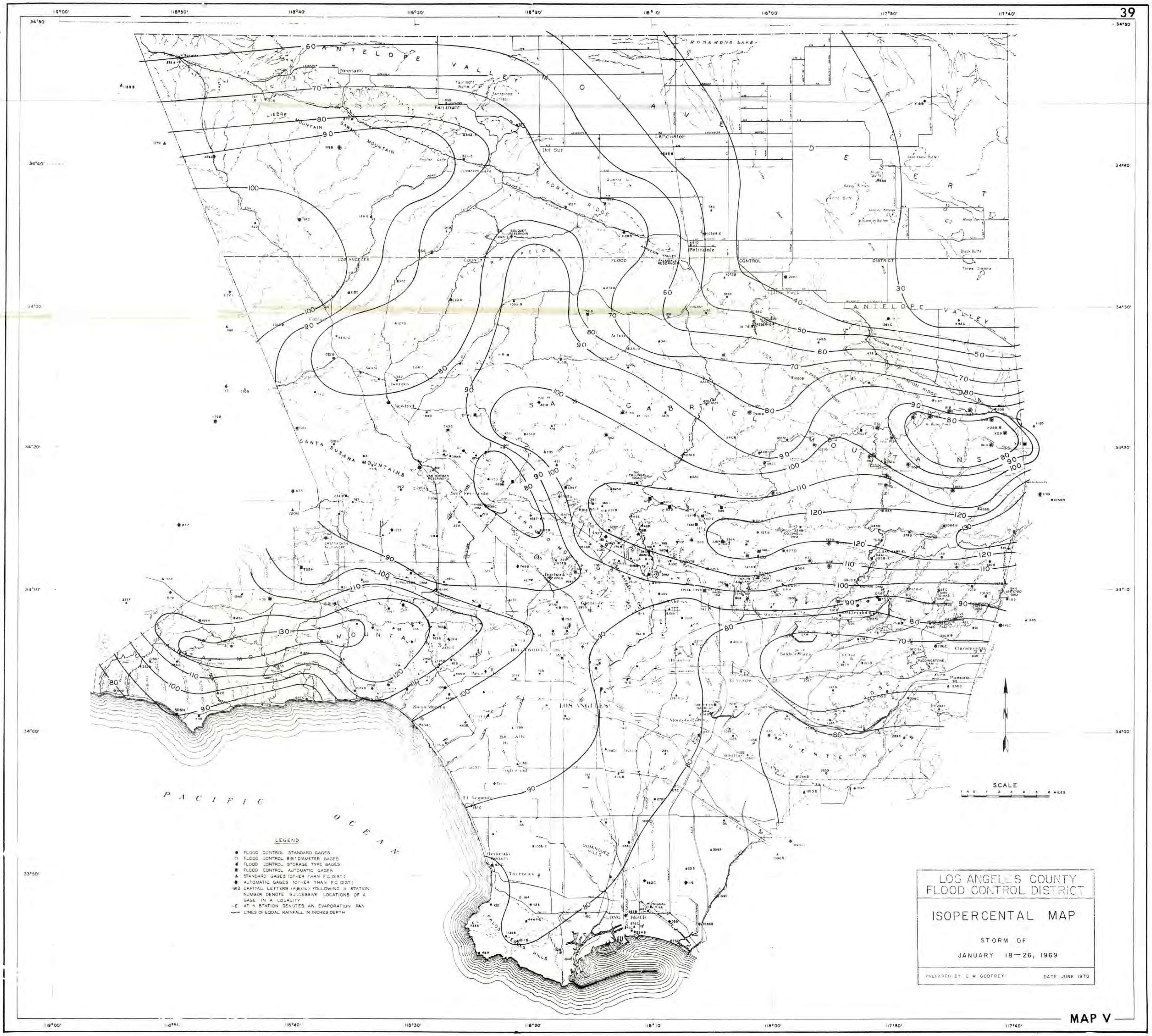
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

ISOHYETAL MAP

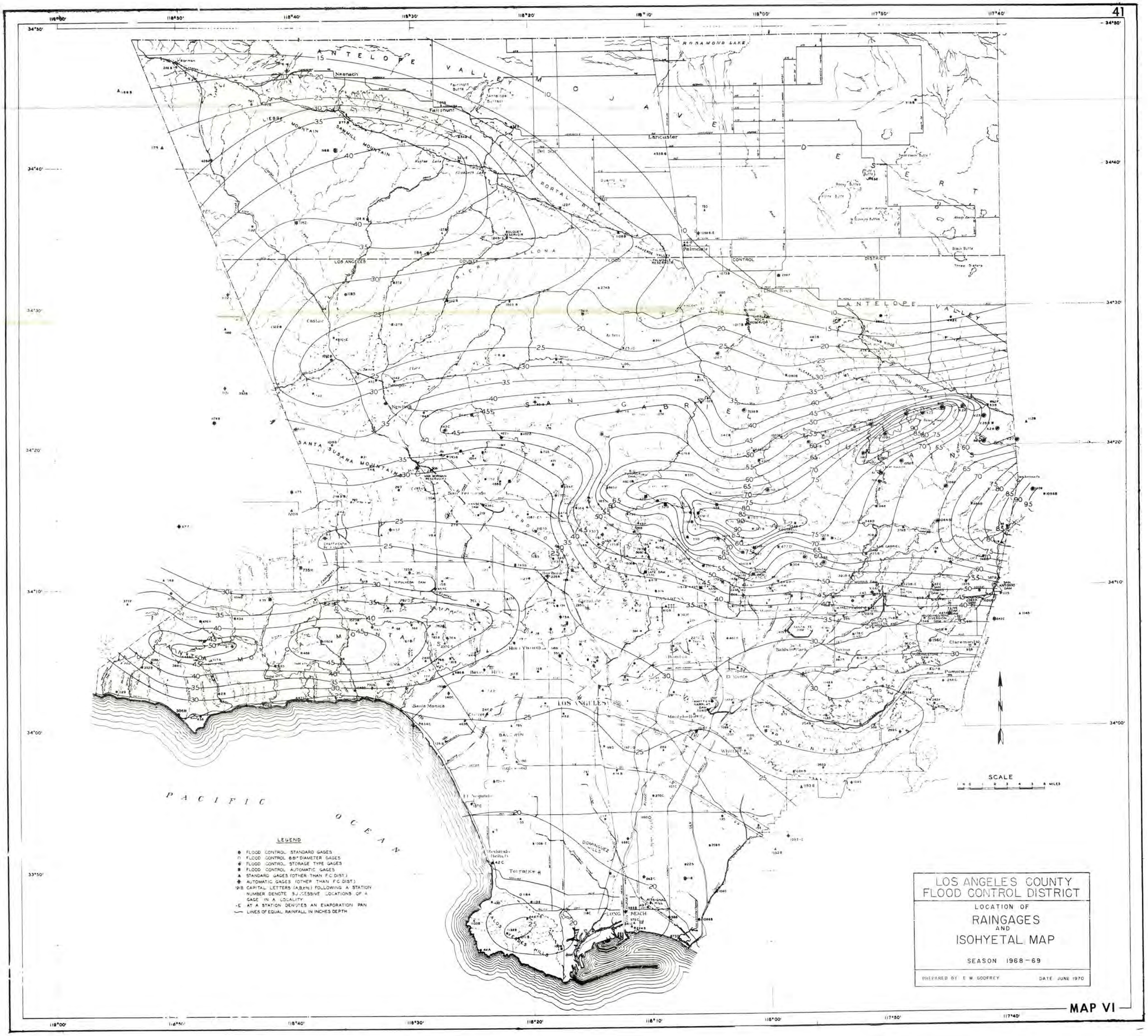
24-HOUR PERIOD
STORM ENDING 5P.M.
JANUARY 25, 1969

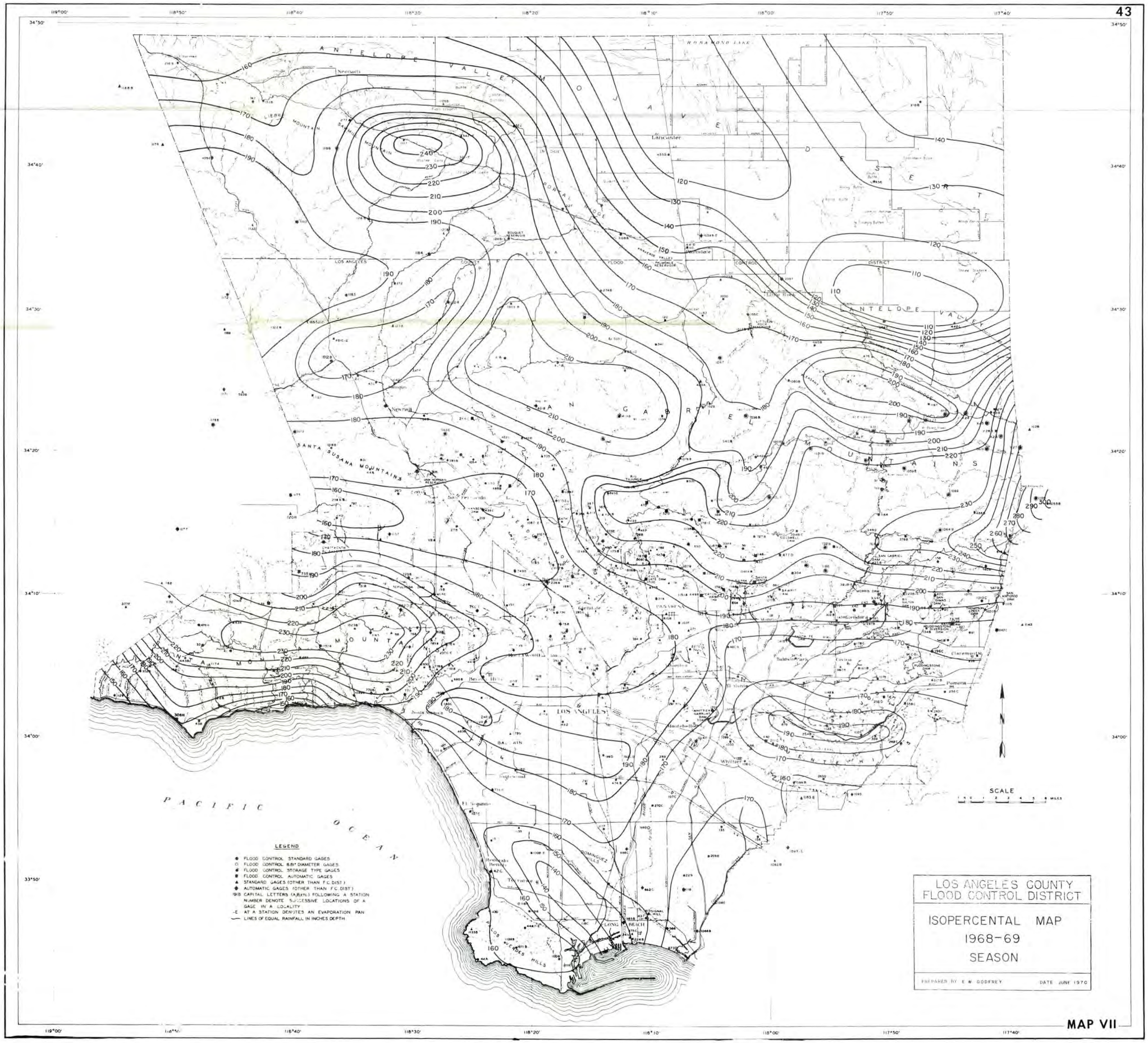
COMPILED & CHECKED BY E.W.GODFREY DRAWN BY L.R.S

MAP IV


LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
ISOPERCENTAL MAP
STORM OF
JANUARY 18—26, 1969
PREPARED BY: E. W. GODFREY
DATE: JUNE 1970
LEGEND
FLOOD CONTROL STANDARD GAGES
FLOOD CONTROL 8.81" 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.)
191B CAPITAL LETTERS (A,B,etc) FOLLOWING A STATION NUMBER DENOTE SUCCESSIVE LOCATIONS OF A GAGE IN A LOCALITY
-E AT A STATION DENOTES AN EVAPORATION PAN
LINES OF EQUAL RAINFALL IN INCHES DEPTH
SCALE
MILES
ANTELOPE VALLEY
MOJAVE DESERT
ROSAMOND LAKE
Neenach
Fairmont
Lancaster
Del Sur
Palmdale
PORTAL RIDGE
LIEBRE MOUNTAIN
SAWMILL MOUNTAIN
SIERRA PELONA
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
VERDUGO MOUNTAINS
SAN RAFAEL HILLS
SAN JOSE HILLS
PUENTE HILLS
DOMINGUEZ HILLS
PALOS VERDES HILLS
BALDWIN HILLS
HOLCOMB RIDGE
PLEASANT VIEW RIDGE
PINYON RIDGE
Newhall
San Fernando
Burbank
Glendale
Pasadena
Hollywood
Santa Monica
LOS ANGELES
Whittier
Pomona
Claremont
Glendora
Baldwin Park
Long Beach
Torrance
Redondo Beach
El Segundo
PACIFIC OCEAN
119°00'
118°50'
118°40'
118°30'
118°20'
118°10'
118°00'
117°50'
117°40'
34°50'
34°40'
34°30'
34°20'
34°10'
34°00'
33°50'

MAP V


ANTELOPE VALLEY
MOJAVE DESERT
SIERRA MADRE
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAIN
LIEBRE MOUNTAIN
SAWMILL MOUNTAIN
PORTAL RIDGE
ROSAMOND LAKE
Lancaster
Palmdale
Neenach
Fairmont
Fairmont Butte
Del Sur
Quartz Hill
Rosamond
Black Butte
Three Sisters
Rocky Buttes
Elsmere Canyon
Alpine Canyon
Sloverly Buttes
Joshua Ridge
Union Ridge
Los Angeles County Flood Control District
Castaic
Newhall
Saugus
Elizabeth Lake
Lake Hughes
Pyramid Lake
Quail Lake
Bouquet Reservoir
Palmdale Reservoir
Van Norman Reservoir
Sepulveda Dam
Hansen Dam
Lake Tujunga
Big Tujunga Dam
Cogswell Dam
Santa Anita Dam
Sierra Madre
Arcadia
Monrovia
Duarte
Azusa
Glendora
Claremont
Pomona
Baldwin Park
El Monte
Monterey Park
Montebello
Whittier
Whittier Narrows Dam
Puente Hills
Hollywood
Beverly Hills
Santa Monica
Culver City
Inglewood
Los Angeles
Baldwin Hills
El Segundo
Redondo Beach
Torrance
Dominguez Hills
Los Angeles Harbor
Long Beach
Signal Hill
PACIFIC OCEAN
LEGEND
● FLOOD CONTROL STANDARD GAGES
□ FLOOD CONTROL 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.)
191B CAPITAL LETTERS (A,B,etc.) FOLLOWING A STATION NUMBER DENOTE SUCCESSIVE LOCATIONS OF A GAGE IN A LOCALITY.
-E AT A STATION DENOTES AN EVAPORATION PAN
LINES OF EQUAL RAINFALL IN INCHES DEPTH
N
SCALE
0 1 2 3 4 5 6 MILES
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LOCATION OF
RAINGAGES
AND
ISOHYETAL MAP
SEASON 1968-69
PREPARED BY E.W. GODFREY
DATE JUNE 1970
MAP VI


ANTELOPE VALLEY
MOJAVE DESERT
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
PACIFIC OCEAN
LOS ANGELES
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LEGEND
FLOOD CONTROL STANDARD GAGES
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LINES OF EQUAL RAINFALL IN INCHES DEPTH
SCALE
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
ISOPERCENTAL MAP
1968-69
SEASON
PREPARED BY E.W. GODFREY
DATE JUNE 1970

MAP VII

EVAPORATION

EVAPORATION

FOREWORD

This report contains monthly and seasonal data for active evaporation stations reporting to the District during the 1967-68 and 1968-69 seasons. Daily records of active and inactive District stations, as well as some stations of other agencies, are available in the District's files. Monthly and seasonal evaporation has been published in the District's Annual or Biennial Reports on Hydrologic Data since the 1931-32 season.

SUMMARY OF EVAPORATION

The following tabulation indicates the maximum and minimum rates of evaporation in inches at stations within the County for the seasons 1967-68 and 1968-69. For comparative purposes, only the evaporation amounts from a 24-inch diameter land evaporation pan equipped with a screen were used.

	1967-68	1968-69
Maximum Seasonal Amount – Palmdale	108.60*	91.76
Maximum Monthly Amount – Palmdale	18.20 July	15.33 Aug.
Minimum Seasonal Amount – Arcadia Arboretum	45.97	
Minimum Seasonal Amount – So. Coast Botanic Gardens		45.94
Minimum Monthly Amount – Descanso Gardens	1.53 Feb.	
Minimum Monthly Amount – Camp Hi Hill (Opids)		1.26 Nov.

*Total includes less than 10 percent estimated amounts.

Table XV page 37, lists monthly and seasonal evaporation data including the type of pan used at all active stations during the 1967-68 and 1968-69 seasons. Evaporation is normally measured at 5 p.m. to be consistent with rainfall measurements.

LOCATION AND NUMBER OF STATIONS

The District, with the cooperation of the Los Angeles City Department of Water and Power, The Metropolitan Water District, the Southern California Edison Company, the United States Forest Service, County Departments, and individuals, received evaporation records from 31 and 30 evaporation stations for the 1967-68 and 1968-69 seasons, respectively. There were 35 evaporation pans utilized during the season 1967-68 and 33 evaporation pans in operation for the 1968-69 season.

Twenty-one and twenty pans were on or near reservoirs for the 1967-68 and 1968-69 seasons, respectively. San Gabriel and Cogswell Dams are equipped with both lake and land pans.

LENGTH OF RECORD

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

EQUIPMENT

1. Land pan, Type L-24

   Twenty-four inches in diameter by 36 inches deep. Installed in ground 33 inches. Water in pan maintained near ground level.

2. Land pan, Type L-24S

   Same as L-24 above, except that it is equipped with a one-fourth-inch mesh hardware cloth that rests one and one-half inches below top of pan.

3. Land pan, Type L-A48

   Forty-eight inches in diameter by 10 inches deep. Installed with water surface approximately 14 inches above ground level. Water surface in pan maintained at two to three inches below top of pan.

4. Land pan, Type L-72

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

5. Land pan, Type L-36

   Thirty-six inches square by 18 inches deep. Installed in the ground 15 inches. Water in pan maintained near ground level.

6. Floating pan, Type F-36

   Thirty-six inches square by 18 inches deep. Mounted on float with the pan submerged to 15 inches depth. Water in pan maintained near lake level.

TABLE XV

EVAPORATION RECORDS IN INCHES

SEASONS 1967-68, 1968-69

1967-68

STA. NO.	STATION	GAGE TYPE	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	SEAS. TOTAL
23B	CHATSWORTH RESERVOIR	L-24S	9.01	3.60	5.59	4.75	2.46	5.61	6.76	7.62	7.50	9.54	8.94	8.40	79.78
32C	NEWHALL-SOLEDAD	L-24S	5.06	3.71	N.R.	N.R.	N.R.	N.R.	INC.	6.73	8.06	8.69	7.49	6.55	INC.
33A	PACOIMA DAM	L-24S	9.49	5.19	4.79	4.86	3.21	5.85	6.38	6.00	6.18	7.73	7.45	7.21	74.34
46D	BIG TUJUNGA DAM	L-24S	9.83	4.69	3.90	3.55	2.89	5.30	6.12	6.52	8.68	9.70	9.22	8.85	79.35
57B	CAMP HI HILL (OPID'S)	L-24S	3.76	.89**	INC.#	INC.#	INC.#	1.88	3.53	5.16	6.60	7.19	6.19	5.60	INC.#
63C	SANTA ANITA DAM	L-24S	9.01	5.15	4.19	4.91	3.47	5.93	5.81	4.23	5.36	7.83	7.51	7.80	71.20
89B	SAN DIMAS DAM	L-24S	5.51	2.67**	1.89	1.75	1.61	3.49	4.34	5.03	5.92	7.57	7.05	5.90	52.73**
96C	PUDDINGSTONE DAM	L-24S	6.35	3.23**	2.75	2.78	2.02	4.36	5.30	5.94	6.86	9.22	8.78	7.44	65.03**
124B	BOUQUET CANYON	L-36P	8.92	4.02	2.67	3.41	2.36	4.75	6.80	7.06	9.17	10.86	9.78	7.95*	77.75**
223B	BIG DALTON DAM	L-24S	5.93	2.95	2.39	2.19	1.74	3.46	4.72	5.08	5.88	7.42	7.07	6.12	54.95
237C	STONE CANYON RESERVOIR	L-24SP	6.90	3.52	3.91	3.91	2.60	5.43	5.78	6.34	6.20	7.55	7.85	6.72	66.57
292D	ENCINO	L-24S	7.21	3.67	3.21	3.13	2.48	5.13	6.68	7.17	7.66	9.30	8.91	8.05	72.60
293	VAN NORMAN LAKE - LOWER	L-24SP	8.62	3.82	5.18	5.38	3.12	6.39	7.30	7.37	6.92	8.94	9.11	8.73	80.88
321	PINE CANYON PATROL STATION	L-24S	6.75	3.45**	2.77**	2.18	2.12	3.38	5.19	6.62	9.08	9.58	9.57	8.75	69.44**
334B	COGSWELL DAM	L-24S	6.75**	3.26**	2.21**	2.18	2.23	4.27	5.70	6.44	7.65	9.18	8.86	7.80	66.54**
334B	COGSWELL DAM	F-36	9.90	4.52**	2.85**	2.49	2.66	4.57	6.22	6.96	7.78	9.32*	10.00	8.23	75.50**
336	SILVER LAKE RESERVOIR	L-24SP	4.85	2.69	2.33	2.54	2.08	5.09	6.12	6.70	6.98	8.19	7.82	6.26	61.59
347	BALDWIN PARK EXPERIMENTAL STATION	L-72	4.25	2.30	2.05	1.70	1.42	3.32	5.70	5.31	5.76	7.26	6.37	5.23	50.67
347	BALDWIN PARK EXPERIMENTAL STATION	L-24	5.07	2.51	1.72	1.46	1.20	3.86	5.95	6.76	7.28	9.23	8.64	6.30	59.98
347	BALDWIN PARK EXPERIMENTAL STATION	L-24S	N.R.	INC.	1.83	1.65	1.58	3.32	4.82	5.26	5.90	8.31	6.77	5.59	INC.
390B	MORRIS DAM	L-72P	6.13	2.87	2.16	2.09	1.81	4.02	5.14	5.62	6.36	8.39	7.82	6.80	59.21
425B	SAN GABRIEL DAM	L-24	6.85	3.94	2.81	3.11	2.31	4.46	5.21	5.42	6.16	7.86	INC.	N.R.	INC.
425B	SAN GABRIEL DAM	F-36	7.66	3.95	2.95	3.11	2.10	5.20	6.02	6.36	7.98	9.52	9.03	7.81	71.69
425B	SAN GABRIEL DAM	L-24S	8.15	4.62	3.35	3.80	2.78	5.19	5.96	5.97	7.00	8.72	8.43	8.27	72.25
444F	SOUTH COAST BOTANIC GARDENS	L-24S	4.53	2.56	1.74	1.65	1.63	3.93	5.36	5.71	5.32	6.25	7.05	5.61	51.46
542	FAIRMONT	L-36P	9.46	4.28	2.07	2.75	3.12	5.66	8.36	11.40	15.30	17.71	14.90	12.73	107.74
794	LOWER FRANKLIN RESERVOIR	L-24SP	6.92	4.12	3.57	3.71	2.73	5.54	6.39	6.84	6.94	8.40	8.49	7.29	70.94
802B	EAGLE ROCK RESERVOIR	L-A48P	8.68	3.70	3.15	3.68	3.17	5.93	6.61	6.36	6.38	8.66	8.21	7.10	69.63
1008	LA FRESA - SOUTHERN CALIFORNIA EDISON CO.	L-24S	3.98	2.29	2.07	1.36	1.30	3.57	5.20	5.95	5.98	6.35	6.03	6.03	50.11
1014F	RIO HONDO SPREADING GROUNDS	L-24S	5.20	3.14	2.44	3.12	2.29	4.40	5.00	5.98	6.20	7.54	6.90	5.90	58.11
1037	ARCADIA - ARBORETUM	L-24S	4.01	2.34	2.06	1.68	1.50	3.36	4.18	4.18	4.85	6.38	6.31	5.12	45.97
1058B	PALMDALE	L-24S	7.07	6.34	2.49	2.25	2.56	5.02	9.45*	12.68	16.73	18.20	13.81	12.00	108.60**
1071B	DESCANSO GARDENS	L-24S	5.71	2.75**	2.12	2.29	1.53	4.10	5.43	4.96	5.56	6.75	6.39	5.72	53.28**
1087	GREEN VERDUGO PUMP PLANT	L-A48P	11.35	5.21	4.83	5.52	4.48	8.13	8.70	8.03	8.43	10.77	10.06	10.09	95.60

1968-69

STA. NO.	STATION	GAGE TYPE	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	SEAS. TOTAL
23	CHATSWORTH RESERVOIR	L-24S	5.79	6.12	3.89	2.56	1.82	5.22	6.15	5.92	5.80	9.65	10.94	8.34	72.20
32C	NEWHALL-SOLEDAD	L-24S	3.87	3.22	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
33A	PACOIMA DAM	L-24S	6.45	5.86	4.40	2.45	N.R.	N.R.	N.R.	N.R.	N.I.	N.I.	N.I.	N.I.	INC.
46D	BIG TUJUNGA DAM	L-24S	6.59	5.29	3.58	2.39	1.66	4.36	5.50	6.60	5.48	8.36	11.78	8.30	69.89
57B	CAMP HI HILL (OPID'S)	L-24S	2.31	1.26	INC.#	INC.#	INC.#	INC.#	3.25	4.81	5.32	6.82	7.95	5.23	INC.#
63B	SANTA ANITA DAM	L-24S	5.20	4.52	3.81	2.84	2.13	4.06	4.14	4.16	2.64	6.20	7.23	5.72	52.65
89B	SAN DIMAS DAM	L-24S	3.96	2.78	1.93	1.44	1.26	2.86	3.73	4.64	3.70	7.24	8.99	5.92	48.45
96B	PUDDINGSTONE DAM	L-24S	5.02	3.85	2.84	1.86	1.86	3.42	3.47	5.19	4.12	8.15	9.64	6.94	57.26
124B	BOUQUET CANYON	L-36P	6.07	4.61	3.11	2.17	1.76	4.73	6.02	6.90	6.85	10.78	12.11	9.04	74.15
223B	BIG DALTON DAM	L-24S	4.02	3.28	2.55	1.82	1.41	2.77	3.36	4.31	3.80	6.82	7.68	6.15	47.97
237C	STONE CANYON RESERVOIR	L-24SP	5.34	5.39	4.31	3.50	2.83	4.88	6.54	5.54	5.10	7.12	8.07	6.25	64.87
292D	ENCINO	L-24S	5.42	4.99	3.27	2.52	1.92	4.48	6.52	6.00	5.96	8.87	10.82	7.58	68.35
293	VAN NORMAN LAKE - LOWER	L-24SP	6.39	7.13	5.47	3.42	2.21	5.66	6.50	5.56	5.22	8.73	10.30	7.59	74.28
321	PINE CANYON PATROL STATION	L-24S	5.39	3.73	2.24	2.30	1.60	3.99	5.09	7.38	7.35	10.22	11.58	7.90	68.97
334B	COGSWELL DAM	L-24S	4.92	3.40	2.42	1.85	1.64	3.52	4.65	5.61	5.64	8.78	10.78	8.28	61.48
334B	COGSWELL DAM	F-36	6.88	4.45	2.74	1.93	1.49	4.18	5.27	6.13	6.12	9.49	12.07	9.28	70.03
336	SILVER LAKE RESERVOIR	L-24SP	4.11	3.67	2.80	1.90	2.38	4.44	5.67	5.76	4.94	8.07	8.58	6.80	59.12
347	BALDWIN PARK EXPERIMENTAL STATION	L-72	3.28	2.15	1.33	INC.	INC.	INC.	4.02	4.51	4.01	6.88	7.89	6.08	INC.
347	BALDWIN PARK EXPERIMENTAL STATION	L-24	3.76	2.59	1.72	INC.	INC.	INC.	4.53	5.56	3.85	8.07	9.48	6.94	INC.
347	BALDWIN PARK EXPERIMENTAL STATION	L-24S	3.26	1.97	1.46	INC.	INC.	INC.	3.95	4.31	3.47	6.00	8.44	5.46	INC.
390	MORRIS DAM	L-72P	4.75	3.42	2.30	1.24	.83	3.49	4.22	5.99	4.73	8.59	9.72	7.43	56.71
425B	SAN GABRIEL DAM	L-24	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.I.	N.R.
425B	SAN GABRIEL DAM	F-36	5.73	4.73	3.40	INC.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.I.	N.R.
425B	SAN GABRIEL DAM	L-24S	7.01	5.42	4.42	2.79	2.25	4.31	4.98	5.75	5.00	8.61	10.22	9.45*	70.22**
444F	SOUTH COAST BOTANIC GARDENS	L-24S	3.55	2.60	1.69	1.30	1.49	3.21	4.77	4.70	4.22	6.11	7.12	5.18	45.94
542	FAIRMONT	L-36P	9.04	5.58	3.12	2.76	2.21	5.61	7.91	11.32	12.33	16.33	17.93	12.42	106.56
794	LOWER FRANKLIN RESERVOIR	L-24SP	5.34	4.73	3.94	2.66	3.53	3.93	5.18	5.18	4.86	7.30	8.10	6.45	61.20
802B	EAGLE ROCK RESERVOIR	L-A48P	4.97	4.49	3.51	2.18	2.55	5.35	5.71	5.84	4.15	8.53	9.44	6.66	63.38
1008	LA FRESA - SOUTHERN CALIFORNIA EDISON CO.	L-24S	3.48	3.03	2.68	2.02	1.77	3.46	4.88	5.02**	4.39*	6.80	8.75	4.98	51.26**
1014D	RIO HONDO SPREADING GROUNDS	L-24S	3.99	3.07	2.64	2.20	1.56	3.42	4.84	5.36	4.30	7.38	7.98	5.45	52.19
1037	ARCADIA - ARBORETUM	L-24S	INC.	PAN NOT IN OPERATION											INC.
1058	PALMDALE	L-24S	7.53	4.79	3.51	2.34	2.34	4.44	6.69	9.48	11.35	13.66	15.33	10.30	91.76
1071B	DESCANSO GARDENS	L-24S	4.28	3.39	2.41	1.56	.98	3.30	3.71	4.52	3.20	6.02	7.42	5.77	46.56
1087	GREEN VERDUGO PUMP PLANT	L-A48P	10.09	6.72	5.48	4.29	3.51	5.81	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.

LEGEND

* ESTIMATE > 10% OF TOTAL
** ESTIMATE < 10% OF TOTAL
\# RECORDS INCOMPLETE, WATER IN PAN FROZEN
INC. INCOMPLETE RECORD
N.R. NO RECORD
N.I. NOT INSTALLED
P EVAPORATION PAN OWNED AND OPERATED BY AN OUTSIDE AGENCY

RUNOFF

RUNOFF

FOREWORD

This is the 27th annual or biennial report on runoff published since the inception of the Hydraulic Division in April, 1927*. These reports cover 42 years of records on various streams and channels throughout the District.

VALUE OF RECORDS

Runoff records furnish the basic data necessary for:

1. Flood data.
2. Design and operation of dams, debris basins, and spreading grounds.
3. Determination of the available water supply and conservation thereof by groundwater replenishment.
4. Determination of the quantity of industrial and natural waste.
5. Distribution of water under water rights.

SUMMARY

The two seasons for which data are included in this report are examples of the contrast between scarcity of rainfall and overabundance which so often is typical of Southern California. The 1967-68 water year produced runoff in the valley areas which was about one-third greater than the long-term mean though the precipitation was less than average. It is probable that continuing urbanization must be responsible, both through lessening the area which was formerly pervious and because of recent increases in the volume of industrial and other waste water. In the San Gabriel Mountains, below-average rainfall was accompanied by a similar reduction in the streamflow even though it may be assumed that the streams were still affected by the ample precipitation of the two prior seasons. Rapid response of gages following the onset of early storms indicates that soil-moisture deficiency was not critical. Peak discharges observed during storms in 1967-68 were not excessive at any location and in the mountains were rather minor.

The characteristics of the runoff during the 1968-69 season were different from any previously experienced. Over the past 30 years, the District's system of drains and improved channels has been under construction and is nearing completion. This has resulted in a more rapid accumulation of flows. With a relatively higher percentage of impervious ground, the peak discharges have tended to increase for any given volume and intensity of rainfall. It has been a practice in this vicinity to compare any extreme winter with that of 1937-38 when the

*Records prior to 1927 on some streams are available in either the office of the United States Geological Survey, Water Resources Division, or in the office of the State of California, Department of Water Resources. Reference to these records, if available, can be found under "Station Descriptions" herein published.

southland's most damaging storm occurred on March 2nd. The records obtained in 1968-69 indicate that the total quantity of runoff in the valleys was much higher than any measured in the period for which data are available, including 1938. Likewise, peak flows equalled or exceeded those of 1938 at many locations in urbanized parts of the District. While the San Gabriel Mountains also produced a much greater total runoff in 1968-69 than in any season in this century, peak flows were, in general, only about two-thirds as high as in 1938.

Most of the water that wastes to the ocean is measured at seven District stations. These measure, in addition to storm flow, the industrial wastes which are not affected by rainfall. The total amounts of ocean waste measured are shown on Table XVII.

The following tabulation shows the yield from the relatively impervious industrialized and subdivided valley areas as compared to the mountainous areas:

	Developed Valley Area Percent of Average		San Gabriel Mountains Percent of Average	
Season	Runoff (1)	Precip.	Runoff (2)	Precip.
1967-68	133.	85.	71.	74.
1968-69	274.	169.	524.	229.

(1) Based on period of record of Alhambra Wash and Ballona Creek drainage areas.
(2) Based on period of record of San Gabriel River and Arroyo Seco drainage areas.

EXTENT AND METHOD OF COLLECTING AND PRESENTING DATA

I. Operation of Water-Stage Recording Stations

The Flood Control District operated 99 water-stage recording stations during the 1967-68 and 1968-69 seasons. Data from 40 District stations are summarized and published in this volume. The remainder are considered to be not of general interest and are intended for special purposes such as reservoir operations, spreading activities, or hydrologic studies. The records for unpublished locations are on file at the District office.

Also included herein are data from four stations operated by the United States Geological Survey and three by The Metropolitan Water District. The latter show the monthly quantities of imported water delivered for spreading under several cooperative agreements.

Map VIII shows the location of all gaging stations operated by the District plus those which are the responsibility of the United States Geological Survey, the United States Corps of Engineers, and The Metropolitan Water District.

II. Types of Controls

The types of controls at which the gaging stations are located are listed below in order of predominance:

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

III. Types of Recorders Used

Flow stage is recorded by various types of recorders on printed charts. Some recorders are equipped with weekly charts; however, the majority of the recorders uses a continuous type chart. The most common installation involves the use of a stilling well with the recorder actuated by a float. Recently, several gaging stations have been built which use gas-pressure servo-manometers, thus eliminating the need for stilling wells. Factors which determine the choice of instrumentation include the gage-height range and time scale required, the importance of the record, and the practicability of frequent access by a District hydrographer. Recorders in use include: Stevens Types A-35, L and F, and Au.

IV. Records of Streamflow Recording Stations

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

1. Station descriptions which present pertinent data regarding location, drainage areas, channels, controls, regulations, diversions, available records, extremes of discharge, accuracy of records, and operations. These descriptions are continually being updated to reflect the latest available information. Therefore, a change from previous issues does not necessarily mean that the station was moved.

2. Daily discharge tabulations which show the mean daily runoff in second-feet and total monthly and yearly runoff in acre-feet.

3. Renewing a practice which was discontinued after 1961, this report contains hydrographs for the two major storms of 1969. The hydrographs included indicate discharge versus time at each of several gaging stations which are representative of the streams on which they are located.

4. The compilation of discharge records depends to a large extent on streamflow measurements. These are made during all conditions of flow, both in storms and throughout the year. They are used primarily to establish the stage-discharge relationship at each location and to determine variations from average conditions. Such measurements are kept on file at the District office.

5. A summary of the records of the District gaging stations contained in this report will be found in Table XVI.

V. Cooperation

The District cooperates with other agencies operating in the vicinity. District hydrographers make periodic streamflow measurements and observations at installations belonging to these organizations. The District publishes or has access to the records of such stations. In return, the data from some 22 District stations are published in the Geological Survey's annual water supply papers. Agencies with which close cooperation is maintained are:

United States Geological Survey, Water Resources Division
United States Corps of Engineers
Metropolitan Water District
San Bernardino County
Ventura County
San Gabriel River Water Committee

VI. Non-Recording Stations

Streamflow measurements are made periodically at places where no recording instruments are maintained. These measurements are made for some specific purpose and, in general, indicate base flow conditions of a stream rather than storm flows. They may be obtained upon request to the Operations Section of the Hydraulic Division. Because of the importance of flows originating from groundwater in the Whittier Narrows area, tabulations of mean daily discharge have been included in this report along with a graph showing the mean monthly discharge over a period of 45 years. Also published are the results of numerous measurements made on the percolative reaches of many streams in the District.

VII. Limitations

In those cases where incomplete recorder records were obtained, estimates are made by comparison with other flow records and rainfall data, or by interpolation between known or measured values. In the tabulation of mean daily runoff, incomplete totals are avoided by estimating any missing or unreliable records. It is believed that approximating missing current data is more satisfactory than leaving records incomplete. Familiarity with a current season's runoff characteristics facilitates making such estimates, whereas reconstruction from available data in later years would be much more difficult.

LEGEND

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

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

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

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

Prefix U – indicates stations owned and operated by the United States Geological Survey, Water Resources Division.

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

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

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

Prefix S – indicates station owned and operated by the San Gabriel River Water Committee.

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

Suffix R – indicates a recorder station.

Suffix S – indicates a staff gage station.

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

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

"a" – No gage height record due to recorder or clock failure.

"b" – No gage height record due to obstructed communication or sanded well.

"c" – Gage height record affected by backwater.

"d" – Gage height record doubtful.

"e" – Other types of estimates.

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

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

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

Zero gage height elevations shown in the station descriptions are based on the United States Geological Survey mean sea level datum.

ACCURACY

The mean daily runoff tabulations are qualified under "Accuracy" in the station description. "Excellent" indicates that error in the record is probably less than five percent. "Good" indicates a possible error greater than five percent, but probably less than 10 percent. "Fair" indicates a possible error greater than ten percent, but probably less than 20 percent. "Poor " indicates a possible error greater than 20 percent.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
STREAM
GAGING STATIONS
AND
HYDROGRAPHIC DISTRICTS
1967-68 AND 1968-69
SEASONS
PREPARED BY: S. E. BLAKELY
DATE: JUNE 1970
LEGEND
● RECORDING STATION
O STAFF GAGE STATION
U U.S.G.S. STATION
L FORMERLY LITTLE ROCK PALMDALE IRRIGATION DISTRICT STATION
P FORMERLY PASADENA WATER DEPARTMENT STATION
S SAN GABRIEL RIVER WATER COMMITTEE STATION
E CORPS OF ENGINEERS STATION
B SAN BERNARDINO COUNTY STATION
C D.W.R. STATION
V VENTURA COUNTY STATION
STREAM GAGING DISTRICT BOUNDARY
M METROPOLITAN WATER DISTRICT STATION
A POMONA VALLEY PROTECTIVE ASSOCIATION
PACIFIC OCEAN
ANTELOPE VALLEY
MOJAVE DESERT
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
PUENTE HILLS
LOS ANGELES
SCALE
MAP VIII

STATION F81D-R

ALHAMBRA WASH near Klingerman Street

LOCATION: LAT. 34°03'20", LONG. 118°05'10" ON THE LEFT (EAST) SIDE OF THE CHANNEL, 250± FEET ABOVE KLINGERMAN STREET AND 2,650 FEET BELOW GARVEY AVENUE, SOUTH SAN GABRIEL. ELEVATION OF ZERO GAGE HEIGHT 243.74 FEET.

DRAINAGE AREA: 14.5 SQUARE MILES.

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

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

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: NONE.

RECORDS AVAILABLE: AT STATION F81-R – JANUARY 14, 1930 TO SEPTEMBER 30, 1934.
AT STATION F81B-R – OCTOBER 1, 1934, TO FEBRUARY 25, 1935.
AT STATION F81C-R – FEBUARY 25, 1935 TO APRIL 27, 1936.
AT STATION F81B-R – APRIL 27, 1936, TO MAY 22, 1936.
AT STATION F81D-R – SEPTEMBER 2, 1936 TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 3,480. SECOND-FEET MARCH 8.
MINIMUM: 0.4 SECOND-FOOT AT VARIOUS TIMES.

1968-69
MAXIMUM: 3,980. SECOND-FEET FEBRUARY 6.
MINIMUM: 0.4 SECOND-FOOT AT VARIOUS TIMES.

1929-69
MAXIMUM: 5,010. SECOND-FEET MARCH 2, 1938.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD

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

74D7-M Gth 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F81D-R

Daily discharge, in second-feet of ALHAMBRA WASH near Klingerman Street, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.6	1.1	0.5	1.1	1.1	77	1.1	0.6	1.1	1.1	1.1
2	0.9	0.6	0.9	3.7	1.1	1.1	9.7	0.9	0.9	1.1	1.4	1.1
3	0.9	0.9	0.9	0.9	1.1	1.1	0.4	1.4	0.9	1.1	1.4	1.1
4	0.9	0.9	0.9	0.6	1.1	1.1	0.4	1.1	0.6	1.1	1.4	1.1
5	0.9	0.6	0.9	0.9	0.9	0.9	0.4	1.4	0.6	1.1	1.6	1.1
6	1.1	0.6	1.1	0.9	0.6	1.8	0.4	1.4	0.6	1.1	1.4	1.1
7	1.1	0.6	7.4	0.6	0.6	127	0.4	1.6	1.1	1.1	1.6	1.1
8	0.9	0.6	1.6	0.6	0.9	398	0.4	1.1	0.9	1.1	2.3	1.1
9	0.9	0.4	0.9	0.6	47	1.1	0.6	1.1	0.9	1.1	2.3	1.4
10	0.9	0.6	0.9	0.6	2.1	1.1	0.6	0.9	1.1	1.1	2.3	1.6
11	0.9	0.6	0.9	9.2	1.1	0.9	1.4	1.1	0.6	1.1	2.3	1.1
12	0.9	0.6	0.9	1.1	5.8	0.9	0.9	1.1	0.9	1.1	2.3	0.9
13	0.9	0.4	1.1	0.6	23	19.8	0.9	0.6	0.9	1.1	2.1	0.9
14	0.9	0.6	1.1	0.6	1.6	1.1	0.9	0.9	0.9	1.1	2.1	0.9
15	0.9	0.4	0.9	0.9	0.9	0.9	1.1	1.4	0.6	1.1	2.1	0.9
16	0.9	0.6	0.9	1.1	1.1	6.6	1.1	1.4	0.6	0.9	1.6	1.1
17	0.6	0.6	0.6	1.4	1.6	1.1	1.1	1.6	0.6	0.9	1.6	1.1
18	0.6	1.1	154	1.8	0.9	1.4	1.1	1.4	0.6	0.9	1.4	1.1
19	0.6	398	55	1.4	0.9	0.6	1.1	1.1	0.6	0.9	1.4	1.1
20	0.6	150	2.1	1.4	0.9	0.4	0.9	1.1	0.9	0.9	1.4	1.1
21	0.6	361	1.8	1.1	0.9	0.4	0.9	0.9	0.9	0.9	1.4	1.1
22	0.9	2.8	1.4	1.4	0.9	0.6	1.1	0.9	0.9	0.9	1.4	1.1
23	1.1	1.4	0.9	1.1	0.9	0.6	0.9	0.6	0.9	0.9	1.1	0.9
24	1.4	1.8	0.9	0.9	0.9	1.1	0.6	0.6	0.9	0.9	1.1	0.9
25	0.9	1.8	0.6	0.9	0.6	0.6	0.9	0.6	0.6	0.9	0.9	0.9
26	1.1	1.1	0.9	10.1	0.6	0.6	0.9	0.9	0.6	1.8	0.9	0.9
27	1.1	0.9	0.9	68	0.6	0.6	0.9	0.6	0.9	1.4	1.1	1.1
28	0.9	3.3	0.9	1.8	0.9	0.6	0.9	0.9	0.6	1.1	1.1	1.1
29	0.6	0.6	1.1	1.4	0.9	0.6	0.9	0.9	1.1	1.1	1.4	1.1
30	0.6	97	0.9	1.4		0.9	0.9	0.9	1.1	2.1	1.4	1.1
31	0.6		0.6	15.4		0.6		0.6		2.3	1.1	
	26.7	1,031.0	245.0	133.0	101.5	575.2	109.7	32.1	23.9	35.3	48.0	32.2
MEAN	0.86	34.4	7.90	4.29	3.50	18.6	3.66	1.04	0.80	1.14	1.55	1.07
ACRE-FEET	53.	2,040.	486.	264.	201.	1,140.	218.	64.	47.	70.	95.	64.

Remarks:

YEAR OR PERIOD MEAN 6.54
ACRE-FEET 4,740.

Form Gb 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

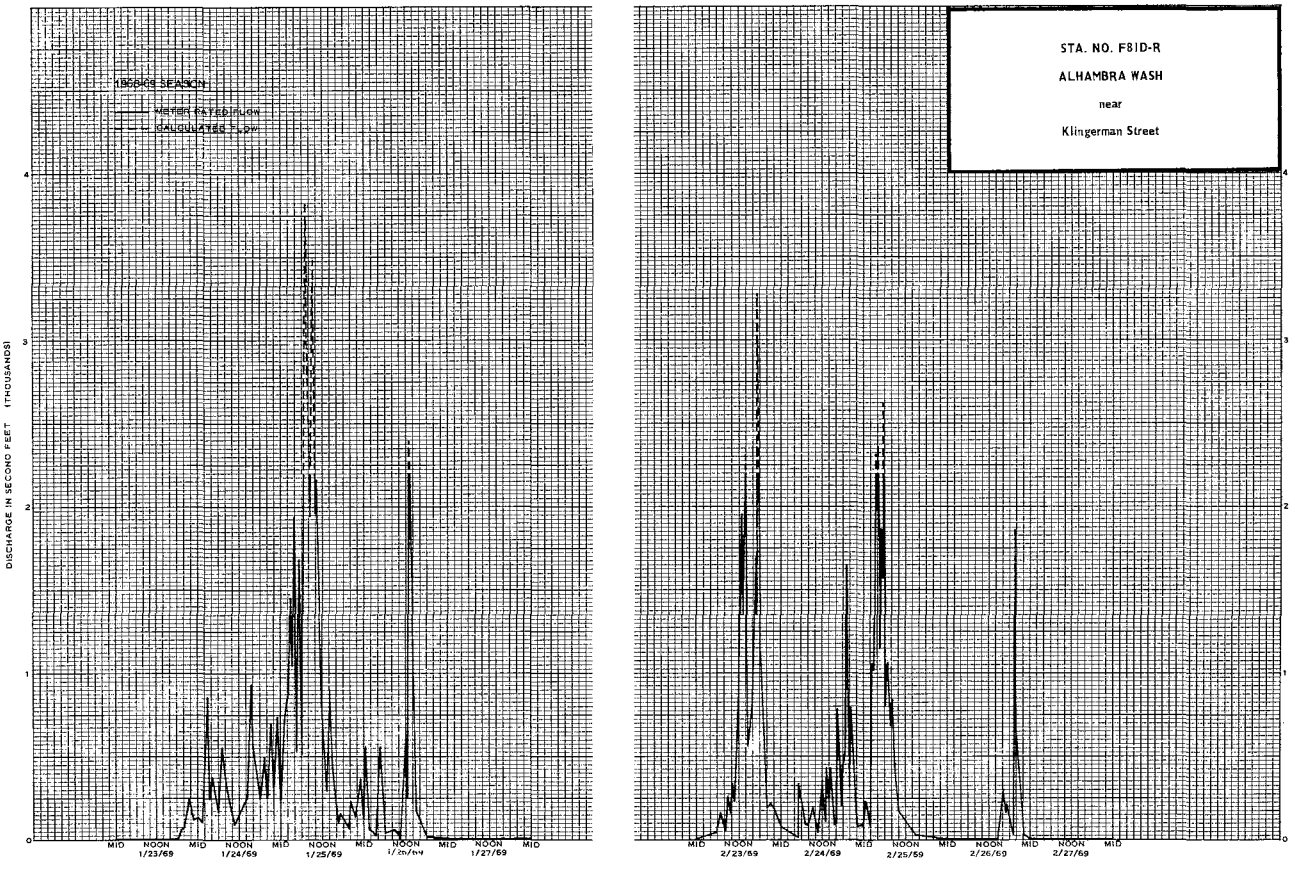
Sta. No. F81D-R

Daily discharge, in second-feet of ALHAMBRA WASH near Klingerman Street, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	1.1	0.6	0.9	1.4	2.1	1.6	1.6	2.1	0.9	2.1	0.9
2	7.7	0.9	0.6	0.9	1.1	1.1	4.9	1.8	2.1	0.9	2.1	1.4
3	4.2	0.6	0.6	1.1	1.6	1.4	11.7	1.6	1.4	1.1	2.1	0.9
4	1.1	0.6	0.4	0.9	1.4	2.1	1.1	1.8	1.4	0.9	2.1	0.9
5	0.9	0.9	0.6	0.6	75	2.1	55	1.6	1.6	0.9	2.1	0.9
6	0.9	0.9	0.9	0.9	308	2.1	1.8	1.4	1.6	0.6	2.3	0.9
7	0.9	0.6	0.9	0.9	2.6	2.1	1.8	1.1	1.4	0.9	2.3	1.1
8	0.6	0.6	0.9	0.9	4.0	13.4	1.4	1.4	1.4	1.1	2.3	1.1
9	0.6	0.9	1.1	1.1	2.8	1.1	1.8	2.1	1.8	1.1	2.3	1.1
10	0.9	0.9	1.1	1.1	2.6	54	4.8	1.8	1.6	1.4	2.3	0.9
11	0.6	0.9	6.9	1.1	2.1	1.6	2.1	1.8	1.6	1.6	4.0	0.9
12	0.6	0.9	0.6	1.1	1.8	1.8	1.6	1.6	1.6	1.4	2.3	0.9
13	0.6	0.9	0.6	112	1.1	3.4	1.8	2.1	1.8	1.1	2.6	0.9
14	1.6	3.1	0.6	87	1.1	2.8	1.8	2.1	1.4	1.4	3.4	0.6
15	0.9	26	0.9	1.8	149	1.1	2.1	1.8	1.6	1.8	2.3	1.1
16	0.6	1.1	28	1.1	2.1	1.4	1.8	1.4	2.1	2.1	1.1	1.1
17	1.1	0.9	1.4	0.9	2.3	1.8	1.8	1.4	2.1	2.1	1.4	1.1
18	1.1	0.9	0.9	76	101	2.1	1.8	1.4	1.1	2.1	1.4	0.6
19	1.4	1.1	1.1	177	62	1.8	1.6	1.4	1.1	2.1	1.8	0.6
20	1.4	1.1	1.1	490	21	2.1	1.6	1.4	1.4	1.4	1.4	0.4
21	1.1	0.9	1.6	435	68	115	1.6	1.6	0.9	1.6	1.1	0.4
22	1.1	0.9	0.9	133	56	2.3	1.8	1.8	0.9	1.6	1.4	0.4
23	1.1	1.1	0.6	27	510	1.8	1.6	2.1	1.1	1.8	1.6	0.4
24	0.9	1.1	0.6	351	242	2.1	1.6	2.1	1.4	1.8	1.6	0.6
25	0.9	0.9	36	999	432	1.8	1.8	2.1	1.1	1.8	1.6	0.9
26	0.9	0.9	29	229	4.0	2.1	1.4	2.3	0.9	2.1	1.1	0.9
27	0.9	0.6	1.1	b 3.0	2.3	2.1	1.4	1.6	1.1	2.1	1.6	1.1
28	0.9	0.6	1.1	79.0	98	2.3	1.6	2.1	0.9	2.1	1.1	0.9
29	2.6	0.6	1.1	1.6		2.3	1.4	2.3	1.1	2.3	1.8	0.9
30	22	0.6	1.1	2.1		2.1	1.1	2.3	0.9	2.6	0.9	1.1
31	1.1		0.9	1.4		1.6		2.1		1.8	0.9	
	62.3	53.1	123.8	3,218.4	2156.3	236.9	119.2	55	42.5	48.5	58.4	25.9
MEAN	2.01	1.77	3.99	104.	77.0	7.64	3.97	1.77	1.42	1.56	1.88	0.86
ACRE-FEET	124.	105.	246.	6,380.	4,280.	470.	236.	109.	84.	96.	116.	51.

Remarks:

YEAR OR PERIOD MEAN 17.0
ACRE-FEET 12,300.



STATION M340-R

ALHAMBRA WASH – METROPOLITAN WATER DISTRICT OUTLET

near Rush Street

LOCATION: LAT. 34°03'06", LONG. 118°04'59", ON THE METROPOLITAN WATER DISTRICT MIDDLE FEEDER OUTLET TO ALHAMBRA WASH AND ON THE LEFT (EAST) SIDE OF THE CHANNEL, 300± FEET NORTH OF RUSH STREET, SOUTH SAN GABRIEL.

RECORDER: A CONTINUOUS TOTALIZING RECORDER WITH VENTURI CONTROL WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION – ENTIRELY REGULATED BY A GATED OUTLET ON THE METROPOLITAN WATER DISTRICT MIDDLE FEEDER.

RECORDS AVAILABLE: MARCH 28, 1958, TO SEPTEMBER 30, 1969.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE METROPOLITAN WATER DISTRICT IN COOPERATION WITH THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

MONTHLY DISCHARGE IN ACRE-FEET:

AMOUNTS SHOWN ARE AS OF MIDNIGHT ON THE LAST DAY OF THE MONTH. APPROXIMATE MEAN DAILY FLOWS ARE AVAILABLE AT THE DISTRICT OFFICE.

	1967-68	1968-69
OCTOBER	9,490.	8,350.
NOVEMBER	4,620.	3,630.
DECEMBER	4,140.	0
JANUARY	5,780.	492.
FEBRUARY	3,250.	0
MARCH	5,700.	0
APRIL	8,040.	0
MAY	6,950.	0
JUNE	5,930.	0
JULY	4,100.	0
AUGUST	0	0
SEPTEMBER	8,510.	0
	66,520.	12,470.

STATION U1-R

ARROYO SECO above Mouth of Canyon

LOCATION: LAT. 34°13'20", LONG. 118°10'36", ON THE RIGHT (WEST) BANK 1.5 MILES ABOVE MILLARD CANYON AND 5.5 MILES NORTHWEST OF PASADENA. ELEVATION OF ZERO GAGE HEIGHT 1,397.88 FEET.

DRAINAGE AREA: 16.0 SQUARE MILES.

REGULATION AND DIVERSION: REGULATION - DEBRIS DAM 1.5 MILES UPSTREAM. DIVERSION - NONE.

RECORDS AVAILABLE: DECEMBER 1910 TO SEPTEMBER 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 1,720. SECOND-FEET NOVEMBER 19.
MINIMUM: 1.1 SECOND-FOOT SEPTEMBER 25, TO SEPTEMBER 27.

1968-69
MAXIMUM: 8,540. SECOND-FEET JANUARY 25.
MINIMUM: 1.1 SECOND-FEET SEPTEMBER 25-27.

1910-69
MAXIMUM: 8,620. SECOND-FEET MARCH 2, 1938.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY. TEN DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

REMARKS: AVERAGE DISCHARGE FOR 55 YEARS (1913-15, 1916-69) 9.69 SECOND FEET.

16D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U1-R

Daily discharge, in second-feet of ARROYO SECO above Mouth of Canyon, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.2	3.0	18	7.1	7.1	6.6	14	5.1	4.0	2.3	1.9	1.7
2	4.2	3.2	14	7.1	6.6	6.6	12	5.7	3.7	2.1	1.7	1.7
3	4.2	3.4	12	7.1	6.3	6.6	8.7	6.0	3.7	2.1	1.7	1.9
4	4.2	3.4	12	6.8	6.3	6.3	8.2	5.7	3.7	1.9	1.7	1.9
5	4.2	3.4	11	6.3	6.8	5.7	7.9	6.3	4.0	1.9	1.5	1.9
6	4.2	3.4	11	6.3	6.6	6.3	7.6	7.1	4.0	1.9	1.5	1.7
7	3.5	3.4	11	6.3	6.3	10	7.5	6.8	4.0	2.1	1.9	1.5
8	3.4	3.4	10	6.8	6.3	74	7.6	6.6	4.0	2.3	1.5	1.3
9	3.4	3.4	9.3	6.3	12	19	6.3	6.6	4.0	2.1	1.5	1.3
10	3.7	3.2	9.3	7.1	10	14	6.2	6.3	3.7	1.9	1.3	1.3
11	3.4	3.2	8.7	8.2	8.2	13	6.0	6.6	3.2	1.7	1.3	1.3
12	3.4	3.2	8.7	6.0	7.9	12	6.3	7.1	3.2	1.5	1.3	1.3
13	3.4	3.2	7.9	6.8	17	14	6.3	7.1	3.0	1.7	1.5	1.3
14	3.4	3.2	7.6	6.3	23	12	6.0	6.0	2.7	1.9	1.7	1.5
15	3.4	3.4	7.9	6.3	13	11	6.0	5.2	2.5	2.1	1.7	1.7
16	3.4	3.4	7.9	6.6	11	11	6.3	4.7	2.5	1.9	1.9	1.9
17	3.4	3.7	7.9	7.5	11	11	6.3	4.4	2.3	1.7	2.1	1.7
18	3.7	3.4	18	6.3	9.0	11	6.0	4.4	2.3	1.5	1.9	1.5
19	3.7	290	14	6.8	10	10	5.7	4.0	2.3	1.7	1.7	1.9
20	3.7	68	10	6.8	10	10	5.7	4.0	2.3	1.7	1.9	1.9
21	3.4	126	9.9	7.3	19.9	9.9	5.7	4.0	2.3	1.7	1.9	1.9
22	3.4	58	9.6	6.8	9.9	9.9	5.7	4.4	2.3	1.7	1.7	1.7
23	3.4	28	9.9	6.6	9.6	9.6	5.2	4.7	2.3	1.7	1.5	1.5
24	3.4	21	9.9	6.6	9.3	9.3	5.2	4.7	2.3	1.7	1.3	1.3
25	3.4	18	9.6	6.6	8.5	8.7	5.2	4.2	2.5	1.7	1.3	1.1
26	3.4	17	10	7.4	8.2	8.7	5.4	4.0	2.5	1.9	1.3	1.1
27	3.4	16	9.6	16	7.6	8.2	5.7	3.7	2.3	1.9	1.3	1.1
28	3.2	16	8.7	10	7.4	7.9	5.2	3.7	2.3	1.9	1.3	1.5
29	3.2	13	8.5	8.0	6.8	7.6	5.0	3.7	2.5	1.9	1.3	1.7
30	3.0	26	7.9	7.1		7.9	5.0	4.0	2.5	1.9	1.3	1.7
31	3.0		7.4	8.2		7.9		4.0		1.9	1.5	
	110.3	755.9	317.2	225.4	271.6	365.7	199.9	160.8	88.9	57.9	48.9	46.8
MEAN	3.56	25.2	10.2	7.27	9.37	11.8	6.66	5.19	2.96	1.87	1.58	1.56
ACRE-FEET	219.	1,500.	629.	447.	539.	725.	397.	319.	176.	115.	97.	93.

Remarks:

YEAR OR PERIOD MEAN 7.24
ACRE-FEET 5,250.

16D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U1-R

Daily discharge, in second-feet of ARROYO SECO above Mouth of Canyon, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	2.7	1.7	0.9	165	299	42	20	14	12	8.2	5.0
2	1.7	2.5	1.7	0.7	147	272	44	20	14	11	7.9	4.7
3	1.7	2.1	1.7	0.6	135	253	60	19	13	11	7.6	4.7
4	1.7	2.3	1.7	0.6	124	227	42	19	13	11	7.4	4.7
5	1.7	2.3	1.7	0.6	212	202	57	20	13	11	7.1	4.4
6	1.7	2.1	1.7	0.6	296	172	57	19	13	15	7.1	4.4
7	1.7	1.9	1.7	0.7	173	155	45	18	13	16	7.1	4.4
8	1.7	1.9	1.7	0.7	137	141	41	18	13	15	7.1	4.4
9	1.7	1.7	1.7	0.7	124	131	40	17	13	13	6.8	4.4
10	1.7	1.7	1.7	0.9	114	129	38	16	13	12	6.8	4.4
11	1.7	1.7	2.1	0.9	118	114	39	16	14	11	6.6	4.4
12	1.7	1.7	1.9	1.3	137	110	36	15	14	12	6.6	4.2
13	1.7	1.9	1.9	1.9	131	106	35	15	14	11	6.3	4.4
14	1.9	1.9	1.7	14	126	99	32	15	13	11	6.3	4.7
15	1.7	4.0	1.7	3.7	133	94	29	15	13	10	6.3	4.7
16	1.5	3.0	2.7	2.5	120	90	28	14	14	10	6.0	5.0
17	1.3	2.5	2.5	1.9	111	86	28	15	14	10	6.0	5.4
18	1.5	2.3	2.1	3.6	129	82	28	15	13	19.9	6.0	5.4
19	1.5	2.1	1.9	22	116	78	27	15	13	9.9	5.7	5.4
20	1.5	1.9	1.7	128	109	73	26	15	13	9.3	5.4	5.2
21	1.5	2.1	1.7	569	108	92	24	15	13	9.6	5.2	5.0
22	1.5	2.1	1.7	223	116	86	24	15	13	9.6	5.0	5.0
23	1.5	2.1	1.5	75	290	74	24	15	13	9.0	5.0	5.2
24	1.5	2.1	1.5	169	631	63	23	15	14	9.0	5.0	5.0
25	1.3	1.9	4.3	3,210	1,800	58	23	15	13	9.0	5.2	5.0
26	1.3	1.7	4.4	2,120	498	56	22	15	12	9.3	5.2	5.0
27	1.1	1.7	1.9	356	347	53	21	15	14	9.3	5.2	4.7
28	1.3	1.7	1.5	254	336	51	21	16	15	9.0	5.2	4.7
29	1.5	1.7	1.3	231		48	20	16	14	8.7	5.4	4.2
30	2.7	1.7	1.1	207		46	20	14	13	8.5	5.4	4.2
31	2.7		1.0	183		44		14		8.2	5.4	
	51.1	63.0	59.1	7,783.9	6,983	3,584	996	501	401	330.3	191.5	142.3
MEAN	1.65	2.10	1.91	251.	249.	116.	33.2	16.2	13.4	10.7	6.18	4.74
ACRE-FEET	101.	125.	117.	15,440.	13,850.	7,110.	1,980.	994.	795.	655.	380.	282.

Remarks:

YEAR OR PERIOD MEAN 57.8
ACRE-FEET 41,820.

STATION F38C-R

BALLONA CREEK near Sawtelle Boulevard

LOCATION: LAT. 33°59'54", LONG. 118°24'05", ON THE RIGHT(NORTHWEST) BANK, 530 FEET ABOVE SAWTELLE BOULEVARD, 1.5 MILES SOUTHWEST OF CULVER CITY. ELEVATION OF ZERO GAGE HEIGHT 11.98 FEET.

DRAINAGE AREA: 88.6 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - TRAPEZOIDAL CONCRETE RUBBLE.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING; HIGH FLOWS FROM CABLE CAR 215 FEET BELOW STATION.

RECORDER: A CONTINUOUS RECORDER AND SERVO-MANOMETER WERE IN SERVICE FROM OCTOBER 1, 1957 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - STONE CANYON RESERVOIR PRIOR TO JANUARY 1951. UPPER AND LOWER FRANKLIN CANYON RESERVOIR, HOLLYWOOD RESERVOIR, SILVERLAKE RESERVOIR.
DIVERSION - SOME SMALL PUMPING DIVERSIONS FOR IRRIGATION DURING EARLY PART OF RECORD.

RECORDS AVAILABLE: 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 SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 32,500 SECOND-FEET NOVEMBER 21.
MINIMUM: 7.0 SECOND-FEET NOVEMBER 11.

1968-69
MAXIMUM: 17,040. SECOND-FEET JANUARY 25.
MINIMUM: 6.2 SECOND-FEET AT VARIOUS TIMES IN SEPTEMBER.

1928-69
MAXIMUM: 32,500. SECOND-FEET ESTIMATED NOVEMBER 21, 1967.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD

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

760714M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F38C-R

Daily discharge, in second-feet of BALLONA CREEK near Sawtelle Boulevard for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11.2	11.2	23	11.2	10.6	13.0	317	12.4	18.0	12.4	20	21
2	12.4	12.4	18.0	11.8	12.4	12.4	55	12.4	18.0	12.4	19.0	20
3	11.8	11.8	13.0	14.0	11.2	12.4	13.0	15.0	a 20	14.0	16.0	22
4	12.4	11.2	12.4	11.2	10.6	14.0	12.4	11.2	21	11.2	16.0	20
5	11.8	8.8	19.0	11.2	13.0	14.0	12.4	11.2	21	12.4	16.0	22
6	11.8	11.8	13.0	10.6	15.0	13.0	10.6	15.0	a 22	11.8	16.0	23
7	11.2	12.4	49	14.0	13.0	1,530	10.6	15.0	17.0	11.2	63	20
8	10.0	10.6	22	15.0	13.0	2,060	11.8	16.0	16.0	15.0	19.0	19.0
9	11.2	10.0	10.0	14.0	72	14.0	14.0	15.0	14.0	17.0	19.0	25
10	13.0	10.6	9.4	12.4	14.0	11.2	12.4	15.0	15.0	16.0	17.0	22
11	13.0	8.2	10.0	63	10.0	12.4	15.0	12.4	15.0	13.0	17.0	23
12	12.4	9.4	9.4	14.0	14.0	12.4	13.0	10.6	15.0	13.0	18.0	22
13	14.0	10.0	8.8	12.4	147	184	11.8	10.0	17.0	10.6	19.0	23
14	11.8	10.6	10.6	11.8	13.0	13.0	10.6	11.2	15.0	10.6	18.0	19.0
15	11.2	10.6	12.4	12.4	10.6	11.8	13.0	11.8	15.0	14.0	20	18.0
16	12.4	10.6	10.0	12.4	10.6	29	11.8	13.0	14.0	15.0	21	23
17	11.2	10.0	9.4	11.8	67	18.3	12.4	12.4	17.0	17.0	19.0	22
18	11.8	10.0	1,460	11.2	11.8	11.2	11.2	14.0	16.0	19.0	23	22
19	11.8	940	213	11.2	15.0	11.2	11.8	13.0	13.0	16.0	32	22
20	11.8	459	13.0	11.8	17.0	11.8	11.2	14.0	14.0	15.0	27	23
21	11.8	6,350	11.8	10.6	a 17.0	11.8	11.2	12.4	14.0	12.4	27	17.0
22	11.2	226	11.8	10.6	16.0	11.8	13.0	13.0	11.8	19.0	20	20
23	12.4	12.4	10.0	11.2	16.0	11.8	14.0	13.0	12.4	18.0	20	21
24	14.0	12.4	10.6	11.8	16.0	11.2	17.0	13.0	13.0	20	18.0	22
25	14.0	11.2	10.6	12.4	15.0	11.2	16.0	11.2	14.0	19.0	14.0	21
26	11.2	11.2	10.6	57	15.0	13.0	13.0	14.0	15.0	20	20	21
27	13.0	12.4	11.8	323	14.0	11.8	13.0	20	11.8	19.0	17.0	20
28	10.6	15.0	12.4	13.0	14.0	13.0	12.4	20	13.0	20	21	19.0
29	10.0	12.4	13.0	10.6	a 13.0	13.0	16.0	18.0	11.8	19.0	21	17.0
30	11.8	713	11.2	10.6		11.8	12.4	16.0	10.0	17.0	22	20
31	12.4		11.8	120		11.2		18.0		18.0	18.0	
	370.6	8,965.2	2,870.0	888.2	636.8	4,140.7	729.0	429.2	460.8	478.0	653.0	629.0
MEAN	12.0	299.	66.8	28.7	22.0	134.	24.3	13.8	15.4	15.4	21.1	21.0
ACRE-FEET	735.	17,780.	4,110.	1,760.	1,260.	8,210.	1,450.	851.	914.	948.	1,300.	1,250.

Remarks:

YEAR OR PERIOD MEAN 55.9
ACRE-FEET 40,570.

7437-1M Glb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

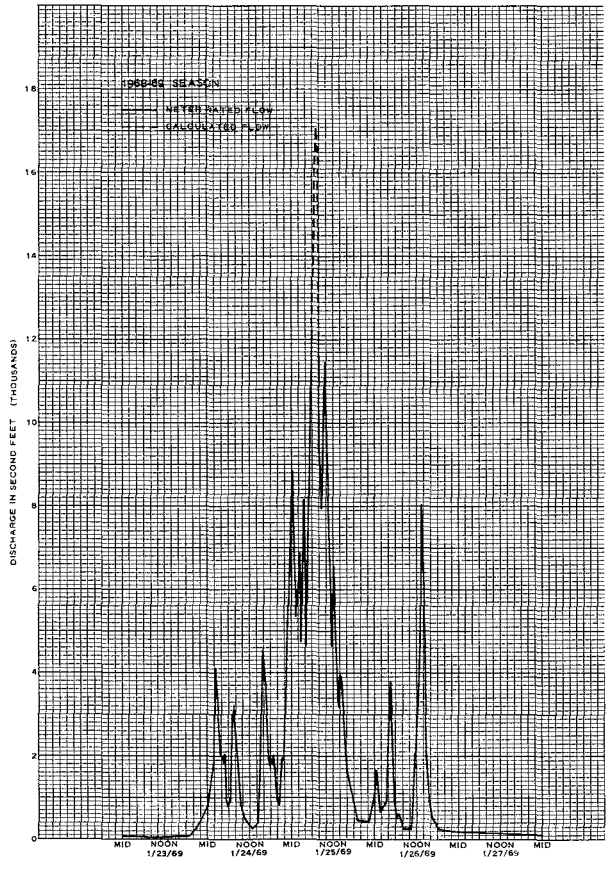
Sta. No. F38C-R

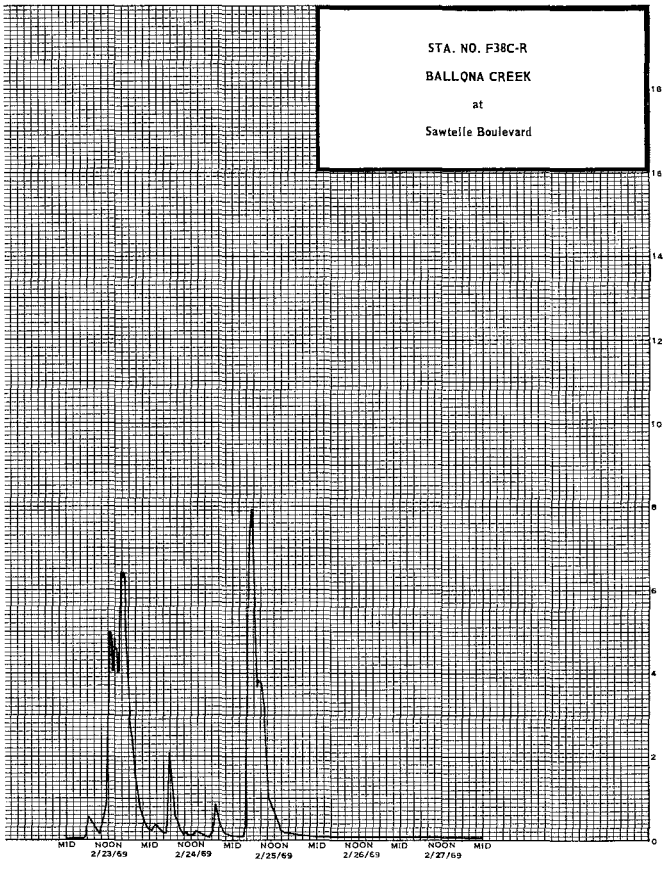
Daily discharge, in second-feet of BALLONA CREEK near Sawtelle Boulevard, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	17	16	14	78	66	20	18	13	45	45	38
2	42	13	13	16	62	41	112	19	19	48	45	50
3	93	32	14	15	62	38	70	19	17	48	45	45
4	19	28	12.4	14	52	36	22	19	18	43	50	38
5	17	16	12.4	11.8	356	32	270	18	18	45	45	8.2
6	14	16	12.4	15	1,160	32	18	18	19	48	48	8.8
7	18	18	9.4	12.4	36	32	17	18	15	45	48	10
8	19	19	8.8	14	23	25	17	18	11.8	45	48	16
9	12.4	17	11.8	11.8	21	23	18	17	18	48	38	14
10	12.4	17	12.4	12.4	23	208	19	13	16	45	43	13
11	16	18	88	9.4	22	30	19	11.8	17	93	48	12.4
12	13	18	11.2	9.4	32	25	16	18	18	50	48	12.4
13	11.8	19	11.8	698	22	27	15	16	17	45	48	10
14	70	19	10	392	23	27	19	17	12.4	50	53	10.6
15	13	170	14	13	762	22	17	17	11.8	52	50	16
16	11.8	21	120	10	36	23	18	18	17	58	43	17
17	11.2	18	13	10.6	25	30	20	15	16	52	43	18
18	11.2	20	11.8	464	1,810	27	21	13	16	55	52	20
19	11.8	19	11.8	2,830	52	27	18	19	16	50	52	21
20	11.8	20	29	3,240	75	25	16	20	18	50	50	18
21	15	23	10.6	1,730	344	283	20	16	13	58	48	17
22	14	32	10	216	326	19	19	20	12.4	58	43	25
23	14	34	12.4	110	1,660	15	18	20	17	55	38	20
24	15	27	11.2	1,360	327	18	18	15	16	50	41	20
25	13	19	301	4,340	1,300	20	16	12.4	16	45	48	19
26	12.4	17	192	1,150	76	20	14	18	14	60	48	19
27	12.4	20	15	139	58	20	13	19	13	36	48	20
28	15	17	13	245	384	21	20	18	11.2	48	45	21
29	39	20	16	84		20	18	20	12.4	43	45	32
30	127	18	14	76		17	19	16	34	45	38	34
31	18		14	78		19		14		48	38	
	740.2	762	1,052.4	18,240.8	9,207	1268	937	530.2	483	1,561	1,422	623.4
MEAN	23.9	25.4	33.9	588.	329.	40.9	31.2	17.1	16.1	50.4	45.9	20.8
ACRE-FEET	1,470.	1,510.	2,090.	36,180.	18,260.	2,520.	1,860.	1,050.	958.	3,100.	2,820.	1,240.

Remarks:

YEAR OR PERIOD MEAN 101.
ACRE-FEET 73,060.





STATION F274B-R

DALTON WASH at Merced Avenue

LOCATION: LAT. 34°04'29", LONG. 117°57'47", ON THE RIGHT (WEST) BANK, 150. FEET ABOVE MERCED AVENUE; ABOUT ONE-HALF MILE ABOVE JUNCTION WITH WALNUT WASH AND ABOUT ONE MILE SOUTH OF BALDWIN PARK. ELEVATION OF ZERO GAGE HEIGHT 348.25 MILES.

DRAINAGE AREA: 36.0 SQUARE MILES (NOT INCLUDING AREA ABOVE PUDDINGSTONE DIVERSION DAM).

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE, 60 FEET WIDE BY 15 FEET DEEP WITH 0.5 FOOT WARP OF BOTTOM AT STATION.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING; HIGH FLOWS FROM FOOTBRIDGE 100. FEET ABOVE STATION.

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - BIG DALTON DAM, SAN DIMAS DAM, PUDDINGSTONE DIVERSION DAM, BIG AND LITTLE DALTON DEBRIS BASINS, BIG AND LITTLE DALTON, SAN DIMAS WASH, IRWINDALE, CITRUS, BEN LOMOND, AND WALNUT CREEK SPREADING DEVELOPMENTS.
DIVERSION - CALIFORNIA CITIES WATER COMPANY AND SAN DIMAS LAND AND WATER COMPANY.

RECORDS AVAILABLE: AT STATION F274-R, NOVEMBER 11, 1940 TO SEPTEMBER 30, 1958.
AT STATION F274B-R, OCTOBER 1, 1958 TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 3,250. SECOND-FEET MARCH 8.
MINIMUM: 0.3 SECOND-FOOT AT VARIOUS TIMES.

1968-69
MAXIMUM: 6,550. SECOND-FEET JANUARY 25.
MINIMUM: PLUS FLOW AT VARIOUS TIMES IN SEPTEMBER.

1940-69
MAXIMUM: 6,550. SECOND-FEET JANUARY 25, 1969.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: CONSTRUCTED BY THE UNITED STATES CORPS OF ENGINEERS. LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

FD74M Gib 11-57

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F274B-R

Daily discharge, in second-feet of DALTON WASH at Merced Avenue, for the year ending September 30, 19 68

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	1.0	3.7	3.2	3.7	4.4	42	0.4	0.6	0.8	0.8	0.8
2	12	0.8	6.9	17	4.4	6.0	5.9	0.6	0.6	0.8	1.8	0.8
3	3.2	0.8	10.4	6.5	3.7	4.4	3.2	0.6	0.6	0.8	0.8	1.8
4	1.0	0.6	11.8	1.6	3.2	5.2	3.2	0.6	4.7	0.8	0.6	1.9
5	1.3	0.6	5.2	0.6	2.7	5.2	3.2	0.6	6.0	0.8	0.6	4.4
6	1.3	0.8	5.2	0.4	3.2	4.4	3.2	0.6	10	0.8	0.6	4.4
7	1.0	1.0	7.9	0.4	3.7	54	3.2	0.8	21	0.8	5.9	3.7
8	1.0	1.0	6	0.6	4.4	414	3.2	0.8	10	0.8	a 0.6	3.2
9	1.0	1.0	5.2	0.6	17	3.7	2.3	0.6	9.1	0.8	0.6	3.7
10	1.0	0.8	4.4	1.0	9.8	3.2	1.0	0.6	10	0.8	0.6	3.7
11	1.0	0.4	5.2	13	3.7	3.7	1.0	0.6	4.8	1.0	0.6	3.7
12	1.0	0.4	6	1.0	6.9	3.7	1.0	0.6	1.3	1.0	0.6	4.4
13	1.0	0.6	7.9	.6	73	6.0	0.8	0.6	1.0	1.3	a 0.6	3.7
14	0.6	0.8	24	0.6	3.4	2.7	0.8	2.5	1.0	1.3	0.6	3.7
15	0.4	1.3	12	0.8	2.3	2.7	0.8	2.7	1.0	1.3	0.4	3.7
16	5.2	2.3	6.9	1.3	2.3	2.8	0.6	0.8	1.0	1.3	0.8	3.2
17	6.9	1.0	6.0	0.8	2.7	5.0	0.6	0.8	1.0	1.3	0.6	4.4
18	3.7	5.1	95	0.8	2.3	2.3	0.3	0.6	1.0	1.3	0.6	3.7
19	2.7	240	55	0.8	2.3	0.6	0.3	0.6	1.0	1.0	0.6	6.0
20	0.8	60	2.3	0.8	3.7	0.4	0.3	0.6	1.0	1.0	0.8	4.4
21	0.8	163	4.4	0.8	2.7	0.4	0.3	0.8	1.0	1.0	0.6	3.7
22	0.6	2.3	5.2	0.8	3.7	0.4	0.3	0.8	1.0	1.3	0.6	3.2
23	0.8	3.7	3.2	1.0	3.7	0.3	0.3	0.8	1.0	1.0	0.6	3.7
24	0.8	5.2	3.2	0.8	2.7	0.4	0.3	0.8	1.0	1.0	0.6	3.7
25	1.0	6.9	3.2	0.8	2.3	0.3	0.4	0.6	0.8	0.8	0.6	3.7
26	1.0	6.0	3.7	4.8	3.2	0.4	0.6	0.4	0.8	0.8	0.8	3.2
27	1.0	6.0	3.7	31	3.7	0.6	0.4	0.6	0.8	0.8	0.8	3.7
28	1.0	5.2	3.2	1.9	3.2	0.6	0.4	0.6	0.8	0.6	0.8	3.7
29	0.6	3.7	4.4	3.7	4.4	0.4	0.6	0.4	0.8	0.6	1.0	4.4
30	0.6	56	3.7	3.2		0.4	0.4	0.4	0.8	0.6	1.0	4.4
31	0.6		3.2	3.7		0.4		0.4		0.6	1.0	
	71.0	578.3	328.8	105.2	188.1	539.0	80.9	23.2	96.3	28.9	27.5	105.9
MEAN	2.29	19.3	10.6	3.39	6.49	17.4	2.70	0.75	3.21	0.93	0.89	3.53
ACRE-FEET	141.	1,150.	652.	209.	373.	1,070.	160.	46.	191.	57.	54.	210.

Remarks:

YEAR OR PERIOD MEAN 5.94
ACRE-FEET 4,310.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F274B-R

Daily discharge, in second-feet of DALTON WASH at Merced Avenue for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.2	6.0	5.2	1.9	59	160	6.9	1.3	b 3.3	1.0	1.3	0.3
2	7.6	4.4	5.2	1.9	24	63	59	a 1.3	3.2	1.6	1.9	0.2
3	11.7	5.2	4.4	2.7	19.9	73	33	1.4	1.6	0.6	1.9	0.2
4	4.4	5.2	3.2	1.9	16.3	51	b 4.4	1.5	14.7	0.3	1.9	0.2
5	4.4	4.4	3.2	1.9	97	56	59	1.6	13.2	0.3	1.9	0.2
6	4.4	6.0	4.4	2.3	662	51	5.2	1.7	b 12.5	0.4	3.7	0.1
7	4.4	4.4	4.4	2.3	99	48	4.4	a 1.8	b 10.5	0.4	3.2	0.1
8	4.4	4.4	4.4	2.7	91	46	b 3.7	1.9	b 8.0	0.6	2.7	0.1
9	4.4	4.4	4.4	3.2	70	41	b 3.0	6.0	6.0	0.8	2.3	0.1
10	4.4	4.4	4.4	2.7	64	148	b 2.3	3.7	5.7	0.8	1.9	0.1
11	6.0	4.4	7.8	2.7	46	46	1.6	2.3	b 4.7	1.6	1.6	0.1
12	4.4	5.2	5.2	2.7	46	38	3.7	0.8	b 3.7	1.0	1.3	0.6
13	3.7	6.0	5.2	65	26	46	5.2	1.6	6.0	0.8	1.3	2.7
14	5.2	6.8	4.4	28	26	22	2.7	1.0	6.9	1.0	1.0	7.9
15	5.2	34	6.8	3.2	150	14.7	3.7	1.0	4.4	1.0	1.0	6.9
16	3.7	5.2	16.4	3.2	18.9	6.9	2.7	9.1	3.7	4.4	1.0	10.4
17	3.2	3.2	4.4	3.2	19.9	6.9	0.8	24	19.9	10.4	0.8	14.7
18	3.7	3.7	3.7	31	84	6.9	1.0	b 21	14.7	11.8	1.6	28
19	4.4	3.7	3.2	103	121	10.4	1.0	17.6	6.9	4.4	2.3	22
20	4.4	6.0	7.4	455	51	9.1	0.8	12.8	10.4	3.7	1.9	13.2
21	4.4	3.7	3.2	421	34	142	0.8	b 8.0	6.9	3.7	3.7	14.7
22	4.4	4.4	3.2	541	156	16.3	1.0	3.2	5.2	9.1	3.2	14.7
23	3.7	6.0	3.2	113	939	9.1	1.3	6.9	19.9	10.4	2.3	10.4
24	3.7	4.4	3.2	559	799	7.9	2.7	4.4	22	7.9	1.6	6.0
25	3.7	4.4	56	3,120	1,330	13.2	6.9	5.2	16.3	3.7	1.3	5.2
26	3.7	4.4	30	1,030	310	9.1	1.0	b 4.9	7.9	2.7	1.0	6.0
27	4.4	5.2	2.3	281	291	9.1	1.9	4.6	2.7	3.2	0.8	6.0
28	5.2	4.4	2.3	138	353	6.9	1.9	4.3	0.8	2.3	0.6	6.0
29	60	4.4	2.3	62		6.0	1.9	4.0	0.6	1.6	0.6	6.0
30	102	4.4	2.3	75		6.9	5.2	3.7	0.8	1.6	0.4	4.0
31	70		1.9	73		6.0		b 3.6		1.3	0.3	
	364.4	172.7	217.6	7,133.5	6,503	1,176.4	228.7	166.2	243.1	94.4	52.3	187.5
MEAN	11.8	5.76	7.02	230.	232.	37.9	7.62	5.36	8.10	3.05	1.69	6.25
ACRE-FEET	723.	342.	431.	14,150.	12,900.	2,330.	454.	330.	482.	187.	104.	372.

Remarks:

YEAR OR PERIOD MEAN 47.3
ACRE-FEET 34,300.

STATION U14-R

BIG ROCK CREEK above Mouth of Canyon

LOCATION: LAT. 34°25'15", LONG. 117°50'19", ON THE LEFT, (WEST) BANK, 0.1 MILE ABOVE PUNCHBOWL CANYON AND 0.9 MILE SOUTHWEST OF VALYERMO. ELEVATION OF ZERO GAGE HEIGHT ABOUT 4,050. FEET.

DRAINAGE AREA: 22.9 SQUARE MILES (REVISED).

REGULATION AND DIVERSION: NONE.

RECORDS AVAILABLE: JANUARY 1923 TO SEPTEMBER 1937; MAY 1938 TO SEPTEMBER 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 240. SECOND-FEET NOVEMBER 19.
MINIMUM: 4.9 SECOND-FEET SEPTEMBER 27 AND 28.

1968-69
MAXIMUM: 4,760. SECOND-FEET JANUARY 25.
MINIMUM: 3.2 SECOND-FEET NOVEMBER 12, AND DECEMBER 18.

1923-69
MAXIMUM: 8,300 SECOND-FEET MARCH 2, 1938.
MINIMUM: 0.7 SECOND-FOOT NOVEMBER 5, 1951.

ACCURACY: GOOD.

OPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY. SEVENTEEN DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

REMARKS: AVERAGE DISCHARGE FOR 46 YEARS (1923-37, 1938-69), 16.5 SECOND-FEET.

760T4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U14-R

Daily discharge, in second-feet of BIG ROCK CREEK above Mouth of Canyon for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	7.9	15	11	11	20	16	13	10	7.3	7.8	5.4
2	13	7.6	13	10	11	19	16	13	9.7	7.1	7.1	5.4
3	13	7.1	12	11	12	19	15	13	9.6	6.9	7	5.4
4	13	6.9	11	10	12	18	15	13	9.7	6.7	6.9	5.4
5	12	6.8	9.9	9.9	12	17	15	13	10	6.7	6.8	5.6
6	13	6.8	10	10	12	18	15	13	10	6.8	7	5.7
7	12	6.5	9.7	10	12	18	14	13	10	6.7	7.1	5.7
8	11	6.5	10	10	12	26	13	13	10	6.8	7	5.7
9	11	6.5	10	10	19	21	13	13	10	6.5	6.9	5.6
10	11	6.9	10	11	30	20	13	13	10	6.3	6.9	5.6
11	11	6.8	10	12	23	19	13	12	9.7	6.1	6.9	5.6
12	11	7.1	11	12	19	18	13	12	9.6	6.1	6.9	5.6
13	11	7.1	10	12	19	18	13	12	9.1	6.1	6.9	5.5
14	11	7.9	10	13	18	18	14	12	9	6.2	7.1	5.6
15	11	8.6	8.9	12	17	17	14	11	9.8	6.2	6.9	5.7
16	11	8.2	8.6	13	17	16	14	11	8.5	6.2	6.7	5.5
17	11	7.3	8.5	13	18	16	15	11	8.4	6.1	6.7	5.4
18	10	8.2	11	13	19	16	14	11	8.2	6.1	6.7	5.2
19	10	114	9.7	12	20	15	13	11	8.2	6.1	6.2	5.1
20	10	32	9.4	12	22	14	14	11	8	6.1	6.3	5.4
21	9.5	62	8.4	11	24	14	13	12	7.8	6.1	6.3	5.5
22	9.4	35	8.1	11	24	14	13	12	7.7	6.1	6.3	5.4
23	9.3	20	7.8	11	23	13	13	12	7.6	6.2	6.2	5.3
24	8.7	15	10	11	23	13	13	12	7.6	6.3	6.1	5.1
25	8.7	12	10	10	22	13	13	11	7.4	6.3	6	5
26	8.7	10	11	11	23	13	13	11	7.2	6.2	6.4	5
27	8.7	9.7	15	12	24	13	13	11	7.2	6.4	6.2	4.9
28	8.4	13	14	9.6	25	14	13	11	7.2	6.8	6.2	4.9
29	8.8	13	12	10	22	13	13	11	7.2	8.7	5.7	5
30	8.8	15	11	11		13	13	11	7.6	8.9	5.6	5
31	8.1		11	11		14		11		8.2	5.5	
	326.1	481.4	326.0	345.5	545.0	510.0	412.0	369.0	261.0	205.3	204.3	161.2
MEAN	10.5	16.0	10.5	11.1	18.8	16.5	13.7	11.9	8.70	6.62	6.59	5.37
ACRE-FEET	647.	955.	647.	685.	1,080.	1,010.	817.	732.	518.	407.	405.	320.

Remarks:

YEAR OR PERIOD MEAN 11.3
ACRE-FEET 8,230.

760T4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U14-R

Daily discharge, in second-feet of BIG ROCK CREEK above Mouth of Canyon for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.1	4.1	4.7	3.9	120	173	127	92	88	38	22	12
2	5.2	3.7	4.9	3.8	110	149	115	89	94	36	21	12
3	5.3	3.7	5	3.8	91	132	117	87	89	35	20	12
4	5.3	3.7	4.9	3.8	63	129	111	85	93	33	19	12
5	5.2	3.8	4.9	3.8	48	133	119	84	89	33	18	12
6	5	3.9	4.9	3.8	122	137	124	90	84	33	18	12
7	4.9	3.5	4.9	3.8	88	135	118	102	77	32	18	12
8	4.9	3.5	4.9	3.8	70	123	116	118	74	30	17	12
9	4.7	3.4	5	4	57	112	114	118	71	30	17	12
10	4.4	3.4	5.7	4.1	48	110	112	115	68	30	17	12
11	4.4	3.4	5.2	4.1	44	106	111	112	64	30	16	12
12	4.1	3.2	5	4.1	40	100	111	109	62	30	16	12
13	4.1	3.4	4.7	4.2	35	95	110	107	60	29	16	12
14	4.3	3.5	4.4	4.8	33	92	110	105	57	29	15	12
15	4.3	3.9	4.1	4.8	33	90	110	103	54	28	15	12
16	4.3	4.1	3.8	5.8	33	90	106	101	52	26	15	12
17	3.9	3.8	3.5	5.4	31	89	103	100	51	25	14	12
18	4	3.8	3.2	5.3	31	91	105	97	51	25	14	12
19	3.9	3.6	3.4	9	31	94	101	96	56	25	14	12
20	3.9	3.5	3.5	117	27	98	105	95	60	25	13	12
21	3.9	3.5	3.5	876	24	91	118	94	57	24	13	12
22	3.6	3.6	3.5	309	23	89	126	94	54	24	13	12
23	3.6	3.7	3.5	250	59	86	130	94	50	24	13	12
24	3.6	3.9	3.5	262	392	84	119	97	48	23	13	12
25	3.6	4.1	4.1	2370	1,670	83	112	99	45	24	12	12
26	3.6	4.2	4.2	1,800	456	82	108	93	44	25	12	12
27	3.3	4.2	4.1	683	246	82	104	94	42	27	12	12
28	3.3	4.2	3.8	344	194	67	102	91	41	26	12	12
29	3.5	4.1	3.8	180		81	98	100	38	24	12	12
30	3.9	4.3	3.8	148		101	94	99	36	23	12	12
31	4.1		3.8	125		114		92		23	12	
	131.2	112.7	132.2	7,610.1	4,219	3,238	3,356	3,052	1,849	869	471.0	360.0
MEAN	4.23	3.76	4.26	245.	151.	104.	112.	98.5	61.6	28.0	15.2	12.0
ACRE-FEET	260.	224.	262.	15,090.	8,370.	6,420.	6,660.	6,050.	3,670.	1,720.	934.	714.

Remarks:

YEAR OR PERIOD MEAN 69.6
ACRE-FEET 50,380.

STATION F111C-R

BIG TUJUNGA CREEK below Mill Creek

LOCATION: LAT. 34°18'33", LONG. 118°08'40", ON THE LEFT (EAST) BANK 500.± FEET BELOW MILL CREEK AND ABOUT 12 MILES NORTH OF LA CANADA. ELEVATION OF ZERO GAGE HEIGHT 2,650.± FEET.

DRAINAGE AREA: 64.9 SQUARE MILES,

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

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

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: NONE.

RECORDS AVAILABLE: AT STATION F111R - NOVEMBER 30, 1930 TO AUGUST 17, 1932.
AT STATION F111B-R - SEPTEMBER 15, 1932 TO MAY 18, 1950.
AT STATION F111C-R - JANUARY 16, 1948 TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 745. SECOND-FEET NOVEMBER 19.
MINIMUM: 0.6 SECOND-FEET VARIOUS DAYS.

1968-69
MAXIMUM: 20,700 SECOND-FEET FEBRUARY 25.
MINIMUM: 0.9 SECOND-FOOT AT VARIOUS TIMES IN OCTOBER.

1930-1969
MAXIMUM: NOT DETERMINED MARCH 2, 1943.
MAXIMUM: 20,700. SECOND-FEET FEBRUARY 25, 1969.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD FOR LOW FLOWS; FAIR FOR STORM PERIODS.

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

74D76M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F111C-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Mill Creek, for the year ending September 30, 19 68

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.6	2.4	22	13	14	11	18	6.6	3.7	1.3	0.9	0.7
2	3.4	2.5	17	13	14	11	22	6.6	3.6	1.3	0.9	0.7
3	3.4	2.5	14	12	14	11	18	6.6	3.4	1.2	0.9	0.7
4	3.2	2.6	14	11	14	10	14	6.6	3.7	1.2	0.9	0.7
5	3.1	2.6	13	11	13	9.7	13	6.1	4.2	1.1	0.9	0.6
6	3.1	2.7	13	11	13	9.4	12	6.1	4.2	1.1	0.9	0.6
7	3.1	2.7	13	11	13	11	12	6.3	4.3	1.0	0.9	0.6
8	3.1	2.8	12	11	13	76	11	6.3	4.2	1.0	0.8	0.6
9	3.1	3.0	12	11	16	35	10	6.6	3.4	1.0	0.8	0.6
10	3.1	3.0	11	11	19	28	9.4	6.6	3.4	0.9	0.8	0.6
11	3.1	2.8	10	11	18	21	9.4	6.8	3.1	0.9	0.8	0.6
12	3.1	2.7	9.4	10	18	19	9.4	6.8	3.0	0.9	0.8	0.6
13	3.0	2.6	9.1	10	23	18	9.4	6.8	2.7	0.9	0.9	0.6
14	3.0	2.6	8.8	10	24	18	9.1	6.8	2.7	0.8	1.0	0.6
15	3.0	2.5	8.8	10	21	17	9.4	6.6	2.5	0.8	1.0	0.7
16	2.8	2.5	8.8	10	19	16	9.4	6.3	2.4	0.8	1.1	0.7
17	2.8	2.6	9.1	10	18	15	9.7	6.3	2.2	0.7	1.1	0.7
18	2.7	2.7	12	10	17	15	9.7	6.3	2.1	0.7	1.1	0.7
19	2.7	285	12	9.7	16	14	9.4	6.1	2.0	0.7	1.1	0.7
20	2.7	105	12	9.4	15	13	9.4	6.1	1.8	0.7	1.1	0.7
21	2.7	345	11	9.1	15	12	9.1	6.1	1.7	0.7	1.1	0.7
22	2.6	122	12	8.8	15	12	8.8	6.1	1.7	0.6	1.0	0.7
23	2.5	41	12	8.8	14	13	8.6	6.1	1.7	0.6 e	0.9	0.7
24	2.4	26	14	8.8	13	13	8.6	6.1	1.6	0.6 e	0.8	0.7
25	2.4	22	16	8.8	13	12	8.3	5.5	1.5	0.6	0.7	0.7
26	2.4	20	18	9.1	12	12	8.3	4.9	1.5	0.6	0.6	0.7
27	2.4	19	18	16	12	12	8.0	4.5	1.5	0.6	0.6	0.8
28	2.4	18	18	16	12	12	7.3	4.2	1.5	1.2	0.6	0.8
29	2.4	18	16	15	12	12	7.3	4.0	1.4	1.2	0.6	0.9
30	2.4	33	15	14		12	6.8	3.8	1.4	0.9	0.6	0.9
31	2.4		14	14		12		3.7		0.8	0.7	
	88.1	1101.8	405.0	343.5	450	512.1	314.8	184.3	78.1	27.4	26.9	20.6
MEAN	2.84	36.7	13.1	11.1	15.5	16.5	10.5	5.95	2.60	0.88	0.87	0.69
ACRE-FEET	175.	2,190.	803.	681.	893.	1,020.	624.	366.	155.	54.	53.	41.

Remarks:

YEAR OR PERIOD MEAN 9.71
ACRE-FEET 7,060.

7681-IM Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

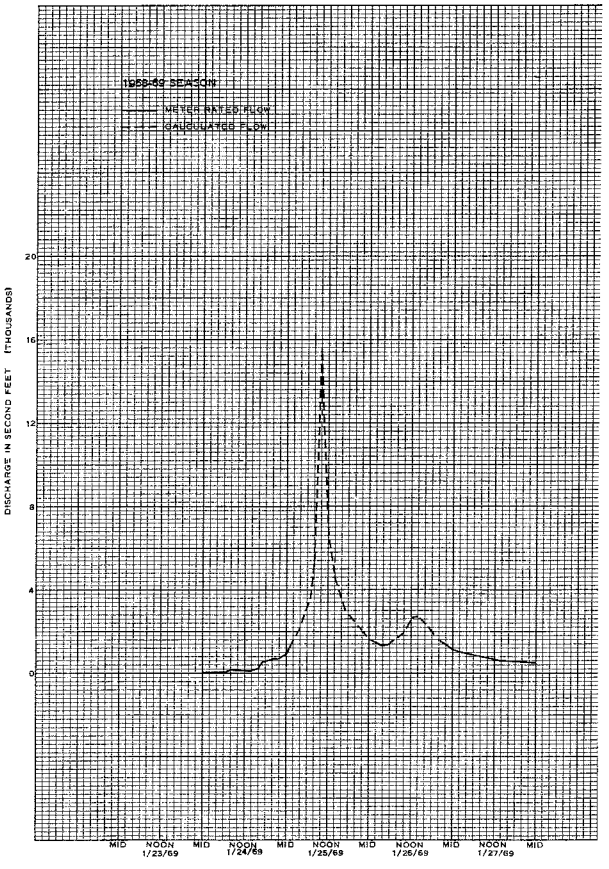
Sta. No. F111C-R

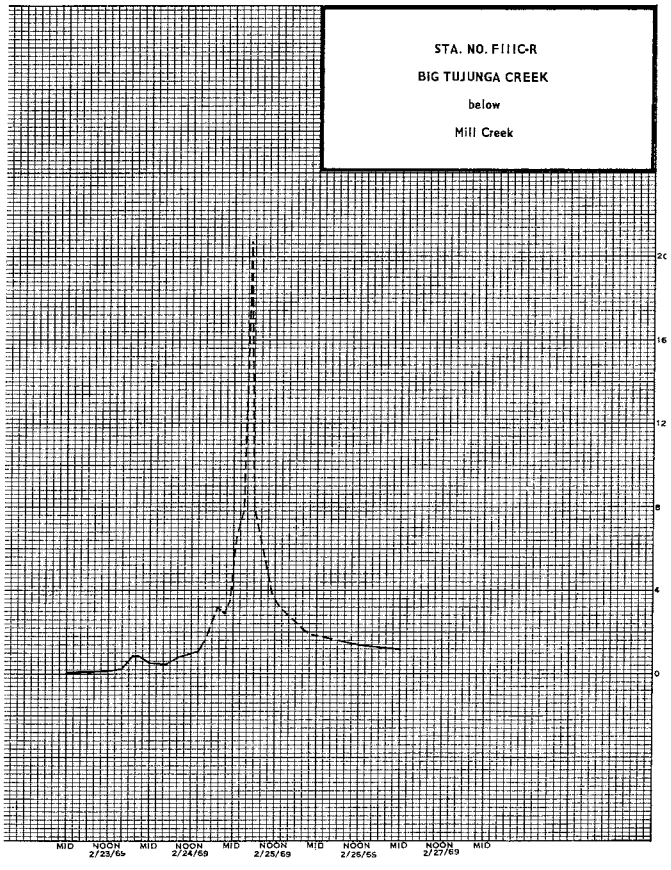
Daily discharge, in second-feet of BIG TUJUNGA CREEK below Mill Creek for the year ending September 30, 19 69

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	0.9	1.2	1.6	131	666	101	52	31	19	11	6.3
2	0.9	0.9	1.3	1.6	61	484	103	52	31	18	11	6.3
3	0.9	1.0	1.3	1.7	53	494	120	54	30	18	10	6.3
4	0.9	1.0	1.4	1.7	52	415	103	56	30	18	9.4	6.3
5	0.9	1.1	1.4	1.8	51	348	120	56	30	18	9.1	6.3
6	0.9	1.2	1.4	1.9	519	275	126	56	30	18	8.8	6.3
7	1.0	1.2	1.4	1.9	248	221	109	55	30	18	9.1	6.1
8	1.0	1.2	1.4	2.0	240	199	109	53	30	18	9.1	6.1
9	1.0	1.2	1.4	2.1	178	197	96	50	32	18	9.1	6.1
10	0.9	1.2	1.4	2.1	172	202	96	50	32	17	8.8	6.1
11	0.9	1.3	1.6	2.1	163	202	88	48	33	18	8.6	6.1
12	0.9	1.3	1.6	2.1	153	197	83	45	32	19	8.6	6.1
13	0.9	1.3	1.6	2.2	147	187	80	44	31	18	8.6	6.3
14	0.9	1.3	1.6	5.4	126	172	76	44	30	17	8.3	6.8
15	0.9	1.3	1.6	3.2	124	159	74	43	29	16	8.3	7.0
16	0.9	1.3	1.6	3.0	118	153	70	42	30	15	8.0	7.3
17	0.9	1.3	1.6	2.8	112	147	69	40	30	15	8.0	7.0
18	1.0	1.2	1.6	3.2	122	143	69	40	29	15	8.0	6.8
19	1.0	1.2	1.6	12	116	139	66	40	28	15	7.8	6.8
20	1.0	1.2	1.6	116	114	137	64	39	28	15	7.8	7.0
21	0.9	1.2	1.6	1,060	105	161	61	38	28	14	7.8	7.6
22	0.9	1.2	1.6	185	101	161	61	37	27	14	7.6	7.3
23	0.9	1.2	1.6	89	305	155	63	37	26	14	7.3	7.0
24	0.9	1.2	1.6	300	1,550	145	60	36	25	13	7.0	6.6
25	0.9	1.2	4.2	4,211	5,320	137	58	36	24	13	7.0	6.6
26	0.9	1.2	4.0	1,830	1,460	131	57	35	22	12	6.8	6.3
27	0.9	1.2	1.9	739	1,110	128	54	35	22	12	6.8	6.3
28	0.9	1.2	1.8	504	895	124	53	35	22	12	6.8	6.1
29	0.9	1.2	1.8	411		120	53	32	21	12	6.8	6.1
30	0.9	1.2	1.8	307		114	52	31	20	12	6.8	6.1
31	0.9		1.7	197		109		31		11	6.6	
	28.5	35.6	53.2	10,003.4	11,846	6,622	2,394	1,342	843	482	254.7	195.4
MEAN	0.92	1.19	1.72	323.	494.	214.	79.8	43.3	28.1	15.5	8.22	6.51
ACRE-FEET	56.	71.	106.	19,840.	27,460.	13,130.	4,750.	2,660.	1,670.	956.	505.	388.

Remarks:

YEAR OR PERIOD MEAN 98.9
ACRE-FEET 71,590.





STATION F213-R

BIG TUJUNGA CREEK above Gold Canyon

LOCATION: LAT. 34°18'02", LONG. 118°16' 04", ON THE LEFT (SOUTH) BANK, TWO MILES ABOVE MOUTH OF CANYON, SEVEN MILES BELOW BIG TUJUNGA DAM AND ABOUT FOUR MILES NORTHEAST OF SUNLAND. ELEVATION OF ZERO GAGE HEIGHT 1,571.80 FEET.

DRAINAGE AREA: 106. SQUARE MILES. (82.3 SQUARE MILES CONTROLLED BY BIG TUJUNGA DAM).

CHANNEL AND CONTROL: CHANNEL - GRAVEL AND BOULDERS.
CONTROL - FORMED BY CHANNEL.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING; HIGH FLOWS FROM CABLE CAR 90. FEET BELOW STATION.

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - FLOW REGULATED BY BIG TUJUNGA DAM.
DIVERSION - SEVERAL SMALL IRRIGATION DIVERSIONS.

RECORDS AVAILABLE: OCTOBER 1, 1932 TO SEPTEMBER 30, 1969. (RECORDS AT THE UNITED STATES GEOLOGICAL SURVEY STATION, TUJUNGA CREEK NEAR SUNLAND. OCTOBER 1, 1916 TO SEPTEMBER 30, 1932 IN WATER SUPPLY PAPERS).

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 410. SECOND-FEET NOVEMBER 21.
MINIMUM: 1.2 SECOND-FOOT SEPTEMBER 11.

1968-69
MAXIMUM: 21,260. SECOND-FEET FEBRUARY 25.
MINIMUM: 0.8 SECOND-FOOT AT VARIOUS TIMES, OCTOBER AND NOVEMBER.

1916-69
MAXIMUM: 50,000. SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM: NO FLOW OCTOBER 6, 1960.

ACCURACY: GOOD.

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

76D74M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F213-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK above Gold Canyon, for the year ending September 30, 19 68

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	18	33	63	38	24	18	13	9.0	36	3.6	2.0
2	24	11	32	59	37	23	17	13	7.9	10	3.6	2.0
3	24	10	31	54	37	23	15	13	7.2	6.5	3.4	2.0
4	24	9.6	30	46	36	23	13	13	7.2	5.2	3.4	2.6
5	24	9.6	29	37	28	23	13	14	7.2	4.2	3.4	2.2
6	24	9.3	26	34	21	24	13	13	7.2	4.2	3.2	1.9
7	24	9.3	26	32	22	28	13	13	7.2	4.2	3.4	1.8
8	24	9.3	24	28	22	72	13	14	7.2	4.2	3.4	1.7
9	24	9.0	23	21	23	34	13	13	7.2	4.0	3.2	1.6
10	23	9.0	23	22	24	31	13	14	9.0	3.4	3.0	1.5
11	22	9.0	23	22	23	29	12	14	13	3.0	2.8	1.3
12	22	9.0	23	20	23	27	13	14	13	2.8	2.8	1.3
13	22	8.6	23	19	31	26	12	14	13	2.8	2.8	1.4
14	22	8.6	22	20	32	25	12	13	13	3.0	2.8	1.5
15	22	8.6	22	20	28	25	12	13	13	3.2	3.0	1.7
16	21	8.2	23	19	27	25	12	12	13	3.2	3.0	1.7
17	20	8.6	24	19	27	25	11	12	12	3.0	3.0	1.7
18	20	8.6	33	19	27	24	11	12	12	2.8	3.0	1.7
19	20	102.	26	19	26	24	12	12	37	2.6	2.8	1.8
20	20	101	26	19	26	24	12	11	67	2.6	2.8	1.8
21	20	258	25	20	26	23	13	12	61	2.4	3.0	1.9
22	20	275	24	20	25	18	14	11	46	2.4	3.0	1.7
23	21	251	23	20	24	13	14	11	44	2.4	2.8	1.6
24	20	193	22	20	24	13	14	11	58	2.4	2.6	1.5
25	20	130	22	20	24	12	14	10	72	2.4	2.6	1.4
26	20	121	22	21	24	12	14	10	70	3.0	2.6	1.4
27	20	103	22	29	25	12	14	10	60	2.6	2.0	1.6
28	20	69	22	29	24	12	13	10	70	2.6	1.9	1.6
29	18	48	32	29	24	12	13	10	89	3.2	2.0	1.8
30	18	52	66	38		12	13	10	14	4.0	2.0	1.9
31	19		55	40		12		10		3.6	2.0	
	666	1876.3	867	878	778	710	396	375	866.3	141.9	88.9	51.6
MEAN	21.5	62.5	28.0	28.3	26.8	22.9	13.2	12.1	28.9	4.58	2.87	1.72
ACRE-FEET	1,320.	3,720.	1,720.	1,740.	1,540.	1,410.	785.	744.	1,720.	281.	176.	102.

Remarks:

YEAR OR PERIOD MEAN 21.0
ACRE-FEET 15,260.

74D16M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F213-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK above Gold Canyon for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.0	1.0	1.2	2.0	b 383	1,000	225	110	54	38	b 21	b 12
2	2.0	1.0	1.3	2.0	503	776	244	110	57	39	20	11
3	2.6	1.0	1.3	2.0	226	816	271	108	60	39	20	11
4	2.6	0.9	1.4	2.0	b 199	533	268	115	58	40	19	11
5	2.4	0.9	1.4	1.9	917	786	329	120	55	40	18	11
6	2.4	0.8	1.4	1.9	1,370	756	283	120	54	41	17	11
7	2.2	0.8	1.4	1.9	b 1,030	547	215	120	54	43	16	11
8	2.2	0.8	1.5	1.9	560	404	132	120	58	42	16	11
9	2.0	0.8	1.5	5.2	469	399	131	110	63	41	16	11
10	1.5	0.8	1.6	6.0	346	404	169	105	63	37	16	11
11	1.6	0.8	1.7	6.2	347	390	208	105	64	35	16	11
12	1.8	0.8	1.7	6.5	337	327	202	103	63	35	16	11
13	2.6	0.9	1.7	7.2	281	370	193	96	65	35	16	11
14	2.6	0.9	1.7	12	293	376	68	84	64	35	16	11
15	3.4	1.0	1.8	11	398	422	152	82	45	34	16	11
16	1.8	1.0	2.4	14	319	422	152	82	42	34	16	11
17	1.5	1.0	2.2	12	222	311	158	77	51	34	15	11
18	1.4	1.0	2.2	9.6	273	330	182	74	48	35	15	11
19	1.2	1.0	2.2	17	199	325	185	74	49	46	14	11
20	1.2	1.0	2.2	152	282	312	132	74	51	44	14	11
21	1.0	1.0	2.2	1,140	220	369	130	74	53	39	13	11
22	0.9	1.0	2.2	806	b 312	375	135	74	55	87	13	11
23	0.8	0.9	2.0	698	591	319	146	70	96	38	13	11
24	0.8	0.9	2.2	668	1,710	263	107	69	54	b 24	13	11
25	0.8	0.8	4.0	8,550	9,250	299	106	69	52	24	13	11
26	0.8	1.0	3.4	5,120	2,500	296	130	62	49	23	13	11
27	0.8	1.0	3.0	b 1,960	1,800	295	120	56	50	23	13	11
28	0.8	1.0	2.8	575	3,390	299	127	57	48	23	13	11
29	0.8	1.1	2.8	299		426	116	59	43	22	12	11
30	1.0	1.2	2.6	414		408	113	56	40	22	12	b 11
31	1.0		2.2	b 323		251		53		b 22	b 12	
	50.5	28.1	63.2	20,827.3	28,727	13,606	5,129	2,688	1,617	1,114	473	331
MEAN	1.63	0.94	2.03	672.	1,030.	439.	171.	86.7	52.9	35.9	15.2	11.0
ACRE-FEET	100.	56.	125.	41,300.	57,000.	27,000.	10,200.	5,330.	3,210.	2,210.	938.	656.

Remarks:

YEAR OR PERIOD MEAN 213.
ACRE-FEET 148,100.

STATION F108-R

CASTAIC CREEK at Highway 126

LOCATION: LAT. 34°25'42", LONG. 118°37'39", ON THE DOWNSTREAM SIDE OF HIGHWAY BRIDGE, 1.5 MILES WEST OF JUNCTION OF HIGHWAY 126 AND HIGHWAY 5, ABOUT 6 MILES NORTHWEST OF SAUGUS. ELEVATION OF ZERO GAGE HEIGHT 952.05 FEET.

DRAINAGE AREA: 202.5 SQUARE MILES.

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

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

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - NONE.

RECORDS AVAILABLE: DECEMBER 27, 1945 TO SEPTEMBER 30, 1969. SOME MEASUREMENTS DURING EARLIER YEARS.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 1,820. SECOND-FEET NOVEMBER 30.
MINIMUM: NO FLOW AT VARIOUS TIMES IN SEPTEMBER.

1968-69
MAXIMUM: 19,300. SECOND-FEET FEBRUARY 25.
MINIMUM: NO FLOW AT VARIOUS TIMES, OCTOBER AND NOVEMBER.

1949-69
MAXIMUM: 19,300 SECOND-FEET FEBRUARY 25, 1969.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: POOR

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

74D14M Gfb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F108-R

Daily discharge, in second-feet of CASTAIC CREEK at Highway 126 for the year ending September 30, 19 68

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.6	3.4	32	12	15	12	5.9	5.1	a 5.4	2.6	1.7	0.7
2	3.8	3.4	20	11	15	13	15	5.4	5.4	3.1	1.7	0.7
3	5.8	3.4	16	11	14	13	11	5.2	5.4	3.1	a 1.7	1.0
4	7.0	2.5	13	10	14	12	12	4.6	a 5.4	1.5	1.6	1.3
5	5.8	2.0	9.7	11	14	12	12	5.2	5.4	2.5	1.6	1.2
6	3.8	2.5	7.6	12	14	11	9.9	5.8	5.4	1.5	1.6	1.0
7	2.8	3.0	6.5	12	14	12	9.9	5.5	5.5	0.8	1.5	0.3
8	2.0	2.8	6.2	13	14	131	9.1	5.4	5.1	1.9	a 1.5	0.4
9	2.8	2.0	5.9	14	15	19	7.8	5.7	5.2	2.8	1.5	0.5
10	3.8	1.8	5.8	14	16	20	9.7	5.7	5.7	2.6	a 1.5	0.5
11	5.0	d 2.0	6.1	14	17	20	8.2	3.1	5.7	2.6	1.5	0.5
12	5.4	d 2.0	6.2	14	19	21	6.1	2.4	5.7	2.9	1.6	0.6
13	3.8	d 2.2	5.8	14	20	23	5.1	4.9	5.5	2.2	1.6	0.7
14	2.8	2.2	5.8	14	22	27	6.1	4.7	5.2	2.0	1.7	0
15	2.2	2.2	5.8	14	23	21	6.7	4.4	4.7	1.9	1.7	0
16	3.4	1.8	5.8	14	22	16	6.1	4.5	4.4	1.9	1.8	0.7
17	3.0	2.2	5.8	14	21	16	6.5	5.1	4.5	1.8	1.8	0.8
18	3.4	2.2	65	14	20	15	6.9	4.9	4.7	1.5	a 1.9	0.8
19	3.8	41	28	14	18	14	6.7	5.0	4.9	1.6	1.9	0.8
20	3.0	56	19	14	18	13	6.1	5.7	4.6	1.6	1.8	0.8
21	2.5	134	14	14	18	12	6.4	5.8	4.5	2.2	1.7	0.3
22	2.0	162	14	13	17	11	7.1	5.5	3.2	2.3	1.2	0
23	2.8	9.9	13	13	16	10	6.9	a 5.5	3.6	2.1	1.6	0.4
24	3.8	6.7	13	12	15	11	6.5	5.5	3.5	2.2	1.1	0.5
25	4.6	6.1	13	12	15	11	6.1	5.5	4.0	2.6	1.0	0.5
26	4.2	6.1	14	13	15	9.3	5.9	5.4	3.9	2.2	1.2	0.5
27	4.2	5.9	13	14	14	6.0	2.7	5.4	3.8	1.9	0.8	0.5
28	2.8	5.9	13	15	13	6.1	5.5	5.4	3.8	1.8	1.0	0
29	2.2	5.9	13	15	13	9.3	5.8	5.4	2.0	1.7	1.0	0
30	2.2	236	12	15		7.4	5.4	5.4	1.2	a 1.7	1.1	0.5
31	3.8		12	15		5.7		a 5.4		a 1.7	0.7	
	113.1	719.1	420.0	412.0	481.0	539.8	225.1	158.5	137.3	64.8	45.6	16.5
MEAN	3.65	24.0	13.5	13.3	16.6	17.4	7.50	5.11	4.58	2.09	1.47	0.55
ACRE-FEET	224.	1,430.	833.	815.	954.	1,070.	446.	314.	273.	129.	90.	33.

Remarks:

YEAR OR PERIOD MEAN 9.10
ACRE-FEET 6,610.

74D14M Gfb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

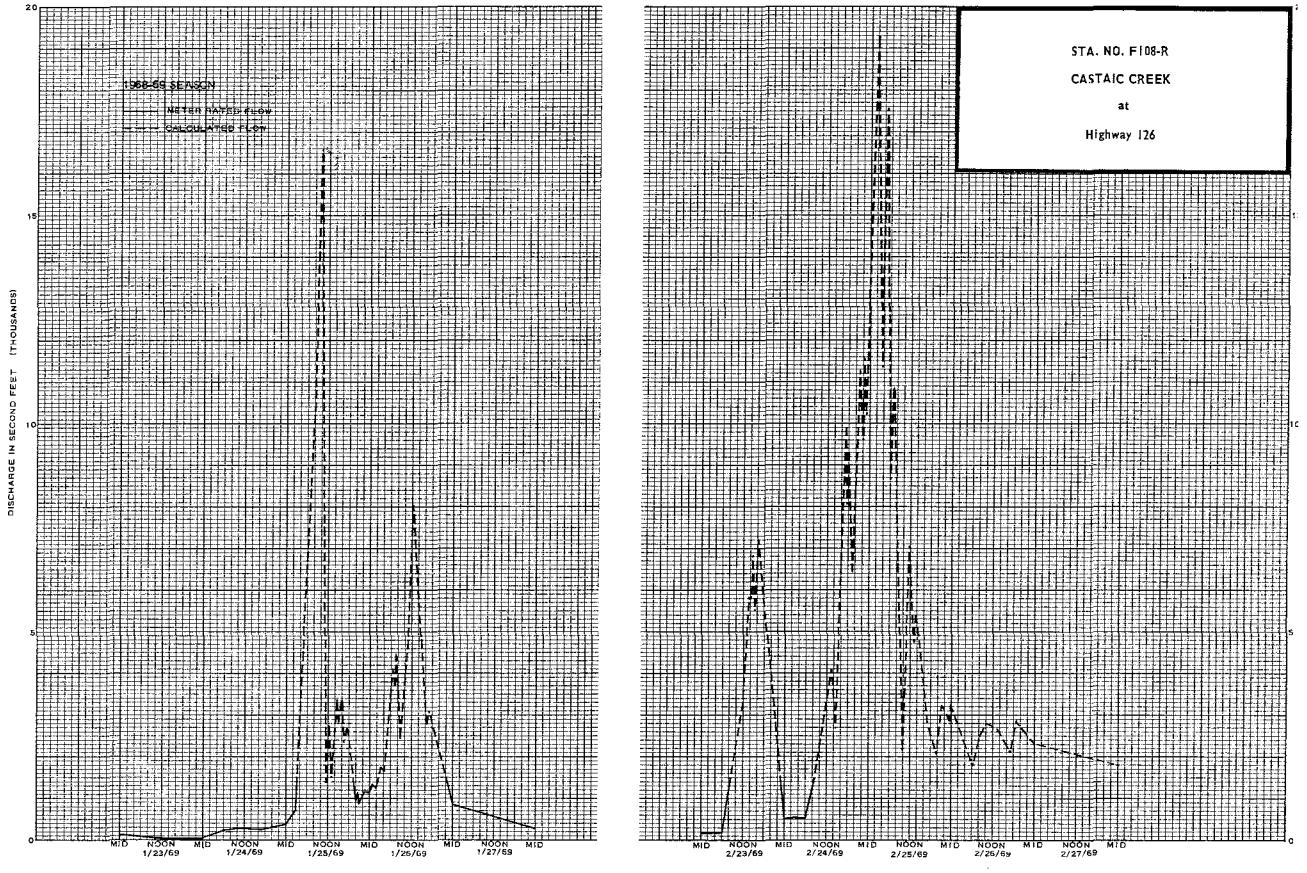
Sta. No. F108-R

Daily discharge, in second-feet of CASTAIC CREEK at Highway 126 for the year ending September 30, 19 69

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	1.2	1.6	2.6	b 130	1,044	b 128	b 58	b 29	b 13	b 2.9	b 6.0
2	0.5	0.9	2.2	3.2	115	d 920	128	57	30	13	2.7	6.7
3	1.0	0.9	2.1	e 3.4	105	d 800	131	56	32	13	2.5	7.4
4	0.8	1.6	2.2	3.3	95	d 680	125	55	34	13	2.3	8.1
5	0.4	1.6	2.2	3.2	b 85	b 560	120	54	35	12	2.1	8.0
6	b 0.4	1.2	2.2	3.1	1,280	448	115	53	36	12	2.0	7.9
7	0.3	1.4	0.9	3.0	300	420	110	52	38	11	1.9	7.8
8	0.3	1.4	0.3	2.9	193	395	100	51	40	11	1.7	7.7
9	b 0.2	0.3	2.2	2.8	173	370	95	50	42	10	1.5	7.6
10	0.2	0	2.2	2.7	127	350	88	50	44	10	1.3	7.5
11	0.9	0.5	2.2	2.6	127	330	84	49	46	10	1.1	7.4
12	1.2	1.2	2.2	2.5	102	300	80	49	47	9.0	1.0	7.6
13	0.6	1.4	2.2	e 2.3	87	279	76	48	44	9.0	1.0	7.8
14	1.0	1.3	1.2	b 2.2	71	260	72	48	41	8.0	1.0	8.0
15	1.4	0.4	+	2.6	166	240	68	48	38	8.0	1.0	8.2
16	1.5	0.1	1.9	3.1	200	220	65	46	35	7.5	1.1	8.4
17	1.6	0	3.0	3.1	152	200	62	44	32	7.5	1.1	8.7
18	1.7	1.2	3.2	b 3.1	200	180	58	42	29	7.5	1.2	9.1
19	0	1.2	3.7	48	200	170	54	40	29	7.4	1.2	8.6
20	1.1	1.1	3.6	293	159	163	50	38	27	7.4	1.3	8.1
21	1.5	1.1	2.2	1,940	87	150	46	36	25	7.4	1.4	7.6
22	1.3	1.2	0.7	384	279	145	42	34	23	7.3	1.7	7.1
23	1.4	0.2	2.2	47	1,760	140	38	32	21	7.3	2.0	6.6
24	1.1	0	2.7	229	4,120	135	34	30	19	7.3	2.3	6.1
25	1.2	1.4	1.8	3,790	6,980	125	30	29	19	6.7	2.6	4.4
26	0.2	2.0	2.2	2,760	2,470	120	30	28	18	6.1	2.9	5.0
27	0	2.2	3.5	581	2,167	118	30	27	17	5.5	3.2	5.6
28	0.9	1.7	2.7	468	2,080	120	30	26	16	4.9	3.5	6.2
29	1.2	2.1	2.6	380		122	30	26	15	4.3	4.1	6.8
30	1.0	1.6	3.4	b 177		122	b 30	27	b 14	3.7	4.7	b 7.4
31	1.2		2.8	b 150		b 125		b 28		b 3.1	b 5.3	
	26.6	32.4	68.1	11,298.7	24,010	9,751	2,149	1,311	915	267.8	65.6	219.4
MEAN	0.86	1.08	2.20	364.	858.	314.	71.6	42.3	30.5	8.63	2.11	7.31
ACRE-FEET	53.	64.	135.	22,410.	47,620.	19,340.	4,260.	2,600.	1,810.	531.	130.	435.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 137.
ACRE-FEET 99,400.



STATION F37B-R

COMPTON CREEK near Greenleaf Boulevard

LOCATION: LAT. 33°52'53", LONG. 118°13'24", ON THE LEFT (EAST) BANK, 120 FEET ABOVE GREENLEAF BOULEVARD AND ABOUT 1.5 MILES SOUTHWEST OF COMPTON. ELEVATION OF ZERO GAGE HEIGHT 50.14 FEET.

DRAINAGE AREA: 23.3 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE, 60 FEET WIDE BY 13 FEET DEEP WITH 1.0 FOOT FILLETS.
CONTROL - FORMED BY CHANNEL.

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

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: NONE.

RECORDS AVAILABLE: AT STATION F37-R JANUARY 22, 1928 TO JUNE 9, 1938; AT STATION F37B-R OCTOBER 3, 1938 TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 3,690. SECOND-FEET MARCH 7.
MINIMUM: PLUS FLOW AT VARIOUS TIMES.

1968-69
MAXIMUM: 5,890. SECOND-FEET JANUARY 20.
MINIMUM: NO FLOW AT VARIOUS TIMES.

1928-69
MAXIMUM: NOT DETERMINED MARCH 2, 1938 (OVERFLOWED BANKS).
MAXIMUM: 5,890. SECOND-FEET JANUARY 20, 1969.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED AND CONSTRUCTED BY THE UNITED STATES CORPS OF ENGINEERS. OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES CORPS OF ENGINEERS.

760T4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F37B-R

Daily discharge, in second-feet of COMPTON CREEK near Greenleaf Boulevard, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	1.2	2.6	0.6	0.4	0.8	91	0.8	0.3	0.4	0.8	0.4
2	0.6	1.2	1.9	0.9	0.4	0.8	24	0.9	0.3	0.9	0.8	0.4
3	0.6	1.2	1.9	0.8	0.4	0.6	0.4	0.8	0.4	0.6	0.6	0.6
4	0.8	0.8	1.9	0.8	0.3	0.6	0.3	0.6	0.4	0.8	0.6	0.6
5	0.6	0.8	4.3	0.8	0.3	0.6	0.4	0.8	0.4	0.6	0.4	0.6
6	0.6	0.6	3.3	0.6	0.4	0.9	0.3	0.8	0.4	0.8	0.6	1.2
7	0.6	0.4	11.4	0.6	0.4	370	0.4	0.8	0.4	0.8	0.6	1.6
8	0.3	0.6	5.0	0.8	0.4	388	0.3	0.6	0.2	0.8	0.6	0.4
9	0.4	0.3	1.2	0.9	13.6	1.6	+	0.3	0.2	0.8	0.6	0.3
10	0.4	0.4	0.8	1.2	1.2	0.6	0.2	0.4	0.3	0.6	0.8	0.9
11	0.6	0.6	0.8	7.7	0.6	1.2	0.3	0.4	0.4	0.6	0.6	0.6
12	0.3	0.4	1.2	0.9	1.3	1.6	0.4	0.6	0.6	0.8	0.6	0.2
13	0.2	0.3	0.8	0.8	39	50	0.2	0.3	0.4	0.6	0.8	0.3
14	0.3	0.4	0.4	0.6	4.6	0.4	0.2	0.3	0.4	0.6	0.9	0.2
15	0.4	0.4	0.6	0.9	0.6	0.3	0.3	0.3	0.4	0.3	0.8	+
16	0.3	0.6	0.9	0.9	0.4	4.1	0.3	0.3	0.8	0.4	0.6	0.2
17	0.4	0.4	1.9	0.8	15.9	6.0	0.3	0.4	0.6	0.6	0.9	0.2
18	0.4	0.4	320	0.6	0.6	0.6	0.2	0.3	0.6	0.6	0.6	0.4
19	0.4	270	82	0.6	0.8	0.6	0.4	0.4	0.6	0.6	0.8	0.3
20	0.6	114	0.4	0.6	0.8	0.6	0.8	0.6	0.6	0.8	1.2	0.2
21	0.4	1120	0.4	0.8	0.4	0.6	0.3	1.2	0.8	0.8	0.9	0.2
22	0.4	42	0.3	0.6	0.4	0.6	0.3	0.9	0.6	0.6	0.6	0.3
23	0.4	1.6	0.2	1.2	0.4	0.6	0.4	0.8	0.6	0.9	0.8	0.2
24	0.4	1.2	0.3	0.9	0.8	0.3	0.4	0.9	0.3	1.6	0.8	0.3
25	0.3	1.2	0.2	1.2	1.6	0.6	0.6	0.9	0.4	1.9	0.8	0.4
26	0.6	0.9	0.2	3.1	1.9	0.8	0.6	0.6	0.3	2.3	0.8	0.9
27	0.4	0.9	0.6	69	1.9	0.6	0.4	0.6	0.3	1.9	0.8	0.9
28	0.4	4.8	0.6	2.3	1.9	0.4	0.3	1.2	0.3	4.0	b 0.7	0.8
29	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.9	0.3	1.9	0.6	0.6
30	0.6	135	0.4	0.6		0.6	0.6	0.3	0.3	1.9	0.4	0.4
31	0.9		0.4	29		0.8		0.2		0.9	0.2	
	15.0	1703.2	447.5	131.7	92.3	836.2	125.0	19.1	12.9	31.7	21.8	14.6
MEAN	0.48	56.8	14.4	4.25	3.18	27.0	4.17	0.62	0.43	1.02	0.70	0.49
ACRE-FEET	30.	3,380.	888.	261.	183.	1,660.	248.	38.	26.	63.	43.	29.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 9.43
ACRE-FEET 6,850.

760T4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

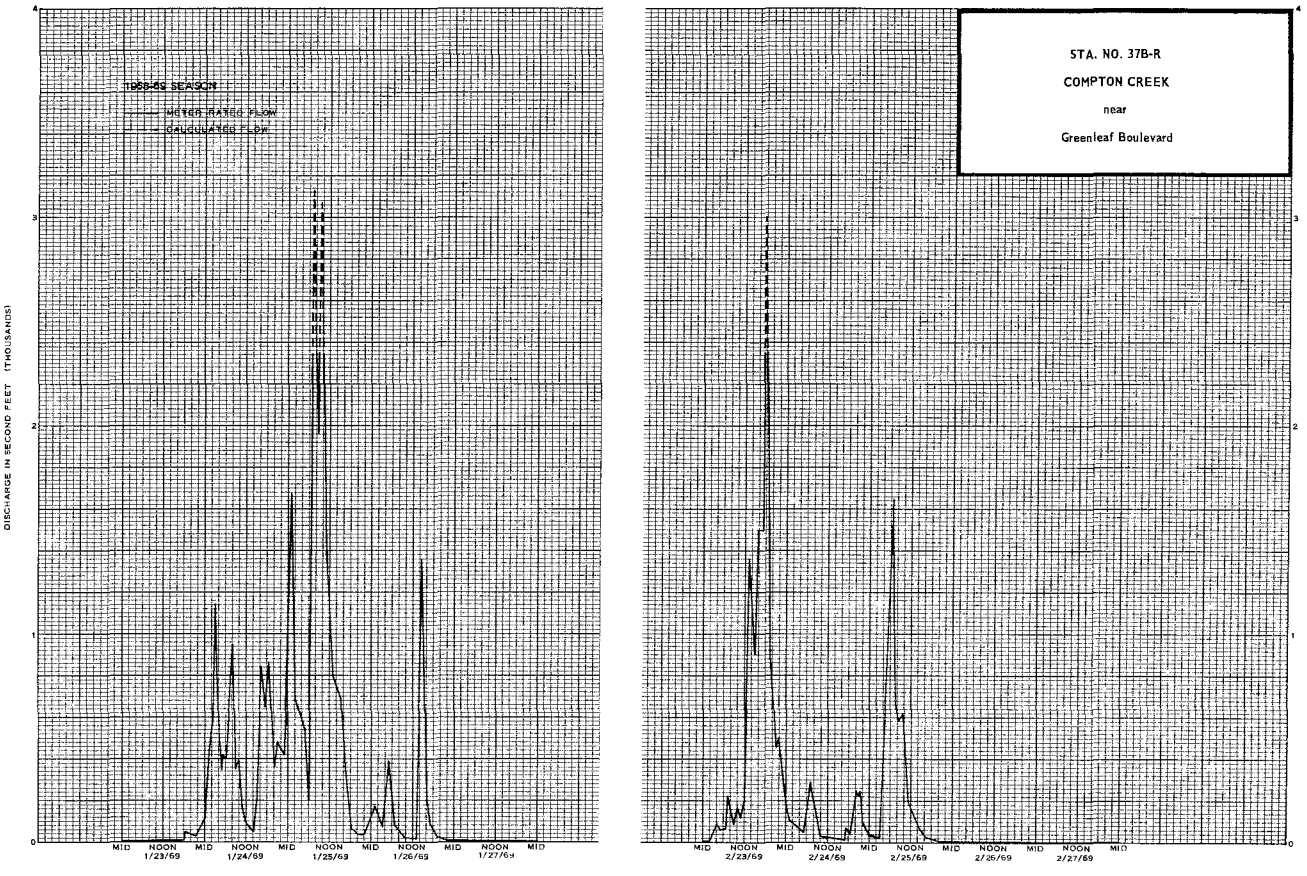
Sta. No. F37B-R

Daily discharge, in second-feet of COMPTON CREEK near Greenleaf Boulevard, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	0.4	0.3	0.2	0.8	5.8	0.8	0.6	0.9	0.9	a 1.4	0.3
2	0.6	0.6	0.4	0.3	0.8	1.2	16.2	0.4	0.8	0.9	1.3	1.2
3	22	0.6	0.4	0.3	0.8	0.9	30	0.4	1.2	0.8	1.2	1.2
4	0.3	2.3	0.4	0.2	1.2	0.8	2.3	0.3	1.2	0.3	1.1	1.6
5	0.2	0.6	0.4	0.4	102	0.6	74	0.4	0.9	0	a 0.9	1.6
6	0.4	0.6	0.4	0.4	140	0.4	2.9	0.4	1.6	0.2	0.8	1.2
7	0.4	0.8	0.6	0.5	1.6	0.3	1.9	0.2	1.2	0.2	0.8	0.3
8	0.9	0.6	0.6	0.5	1.2	0.3	1.9	0.4	0.9	0.2	0.8	0.3
9	0.8	0.4	0.4	0.4	0.8	0.4	1.6	0.4	0.6	0.3	0.8	0.8
10	0.6	0.4	0.6	0.6	0.4	27	2.3	0.3	0.8	0.3	0.4	0.9
11	0.6	0.4	28	0.6	0.6	1.6	1.2	0.2	0.8	5.5	0.6	0.9
12	0.4	0.3	0.6	0.6	0.6	1.2	1.2	0.3	0.9	0.8	0.8	1.2
13	0.4	0.2	0.3	152	0.6	68	1.2	0.9	0.8	0	0.9	1.2
14	10.6	0.4	0.3	172	0.6	1.2	0.9	0.4	0.8	0.2	0.8	0.6
15	0.9	37	0.8	1.6	90	0.9	0.6	0.6	0.9	0.6	0.6	0.6
16	0.9	0.9	32	1.2	2.6	0.9	0.3	0.4	0.9	0.9	0.9	0.9
17	1.2	0.3	0.6	0.9	1.6	0.9	0.4	0.4	0.9	0.9	0.3	1.2
18	2.3	0.2	0.3	112	44	0.9	0.6	0.3	0.9	0	0.4	1.6
19	1.9	0.3	0.4	317	30	0.9	0.4	0.3	0.8	0.4	0.3	0.8
20	0.8	0.3	7.4	1,040	28	0.6	0.6	0.4	0.8	0.4	0.8	0.8
21	0.8	0.3	0.8	364	34	139	0.6	0.4	0.8	0.4	0.8	0.4
22	0.9	0.4	0.2	12.3	123	2.6	0.9	0.4	0.6	0.8	0.9	0.3
23	0.6	0.4	0.3	12.0	564	0.8	0.9	0.4	1.6	0.9	0.8	0.6
24	0.6	0.6	0.6	451	90	0.6	0.9	0.4	0.8	1.6	0.6	0.9
25	0.8	0.2	103	951	225	0.6	0.8	0.3	0.8	1.9	1.2	1.6
26	0.6	0.3	59	140	2.6	0.3	0.9	0.4	0.6	2.3	0.9	1.2
27	0.4	0.6	1.2	2.6	1.2	0.3	0.8	0.6	0.8	1.2	2.3	0.9
28	0.6	0.8	0.9	48	32	0.6	0.6	0.6	0.4	0.8	1.6	1.6
29	0.6	0.6	2.6	1.9		0.6	0.8	1.2	0.3	1.2	1.2	1.6
30	16.4	0.6	0.4	0.8		0.4	0.6	0.8	0.3	1.6	0.9	1.6
31	0.8		0.3	0.9		0.4		0.8			0.9	
	70.1	52.4	244.5	3,696.6	1,520.0	199.8	149.3	14.3	25.6	26.5	28.0	29.9
MEAN	2.26	1.75	7.89	119.	54.3	6.44	4.98	0.46	0.85	0.88	0.90	1.00
ACRE-FEET	139.	104.	485.	7,330.	3,010.	396.	296.	28.	51.	53.	56.	59.

Remarks:

YEAR OR PERIOD MEAN 16.6
ACRE-FEET 12,010.



STATION F354-R

COYOTE CREEK below Spring Street

LOCATION: LAT. 33°48'38", LONG. 118°04'28", ON THE RIGHT (WEST) BANK 241 FEET BELOW SPRING STREET, ABOUT 7.5 MILES NORTHEAST OF LONG BEACH. ELEVATION OF ZERO GAGE HEIGHT 7.34 FEET.

DRAINAGE AREA: 185 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - TRAPEZOIDAL CONCRETE, 235 FEET WIDE AT TOP, 150 FEET WIDE AT BOTTOM BY 24 FEET DEEP WITH LOW FLOW CHANNEL NEXT TO THE STATION.
CONTROL - CHANNEL FORMS CONTROL.

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

RECORDER: A CONTINUOUS RECORDER AND SERVO-MANOMETER WERE IN SERVICE FROM OCTOBER 1, 1967, TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - PARTIALLY REGULATED BY FULLERTON DAM, BREA DAM, AND CARBON CANYON DAM.
DIVERSION - FLOOD FLOWS OVER 100 CFS FROM A 32 SQUARE-MILE AREA (INCLUDED IN DRAINAGE AREA) ARE DIVERTED TO THE SANTA ANA RIVER.

RECORDS AVAILABLE: AT STATION F41-R, (DEL AMO STREET), STREAM FLOW MEASUREMENTS ONLY, DECEMBER 1, 1928 TO JANUARY 14, 1930, AND RECORDER RECORDS AT STATIONS F41-R, F41B-R, AND F41C-R, (DEL AMO STREET) FROM JANUARY 14, 1930 TO FEBRUARY 18, 1956. AT STATION F320-R, (CENTRALIA ROAD), FEBRUARY 9, 1956 TO JULY 2, 1963; AT STATION F354-R, (SPRING STREET) DECENVER 17, 1963 TO SEPTEMBER 30. 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 6,970. SECOND-FEET MARCH 8.
MINIMUM: 1.6 SECOND-FEET OCTOBER 18.

1968-69
MAXIMUM: 11,300. SECOND-FEET JANUARY 20.
MINIMUM: 2.5 SECOND-FEET APRIL 9.

1929-69
MAXIMUM: 11,300. SECOND-FEET JANUARY 20, 1969.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

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

76D14M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F354-R

Daily discharge, in second-feet of COYOTE CREEK below Spring Street, for the year ending September 30, 19 68

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.3	2.0	19.6	3.3	7.1	11.3	184	5.9	10.1	4.6	5.9	7.1
2	3.3	2.5	5.0	3.3	5.9	7.7	181	7.1	9.5	5.0	6.5	5.9
3	3.8	1.6	3.3	7.7	4.6	8.3	11.3	5.5	11.9	5.5	8.9	8.9
4	3.3	2.0	2.9	3.3	4.6	8.9	5.9	5.5	10.7	5.5	10.7	7.1
5	3.8	2.0	4.2	3.3	5.0	10.7	5.9	5.5	10.1	5.9	9.5	5.0
6	4.5	2.5	4.6	2.9	4.2	105	5.9	5.5	7.7	8.3	10.1	5.9
7	4.2	2.5	13.0	3.3	3.3	278	5.5	5.5	7.7	6.5	37	5.5
8	4.2	2.5	43	3.8	2.9	2350	5.5	5.5	7.1	6.5	5.5	6.5
9	2.0	2.9	4.6	3.8	53	64	5.9	5.5	7.7	5.5	7.7	5.9
10	2.9	2.9	3.3	3.8	16.4	27	5.9	5.5	10.1	5.9	9.5	7.1
11	3.3	2.9	3.0	25	3.8	12.7	7.1	7.1	10.1	6.5	9.5	5.9
12	3.3	2.9	2.5	4.2	3.8	12.7	8.3	7.1	10.1	5.9	9.5	5.9
13	3.3	3.3	2.9	3.3	82	40	4.6	7.1	10.7	5.5	10.7	5.9
14	2.5	3.3	2.9	3.3	87	121	4.2	7.7	12.7	7.7	13.5	5.0
15	2.0	3.8	2.9	3.3	7.7	7.1	4.2	6.5	11.9	10.1	11.3	5.5
16	2.0	3.3	2.9	5.5	5.0	8.3	4.2	5.5	10.7	8.9	8.9	5.9
17	2.5	3.3	3.3	4.2	20	39	4.2	5.9	11.3	9.5	7.1	6.5
18	1.6	2.9	848	3.8	5.9	10.7	4.2	5.5	8.9	7.7	9.5	5.9
19	2.5	708	442	3.8	5.9	8.3	5.5	5.5	7.7	8.9	9.5	5.9
20	2.9	156	24	2.5	5.9	8.3	8.9	6.5	5.9	10.1	8.9	5.9
21	4.2	1,250	5.9	3.3	7.1	8.3	9.5	5.9	7.7	8.9	4.6	5.5
22	3.8	42	2.9	2.9	5.9	16.0	7.7	7.1	5.9	8.3	5.5	5.9
23	3.8	3.3	3.3	2.5	6.5	8.3	5.5	6.5	7.1	9.5	4.6	6.5
24	3.3	3.3	3.3	2.9	11.9	7.7	5.5	7.1	7.1	8.9	4.6	7.1
25	2.9	2.9	3.3	2.9	6.5	7.1	8.3	6.5	7.7	9.5	4.2	5.0
26	3.8	2.5	3.3	2.9	5.9	5.9	6.5	6.5	8.3	9.5	7.1	4.6
27	3.8	3.3	4.2	131	8.3	6.5	5.5	7.7	7.1	10.1	5.0	5.0
28	3.8	4.2	3.8	47	6.5	6.5	5.5	6.5	5.0	29	4.2	5.0
29	3.3	2.5	3.3	4.6	8.3	6.5	5.5	7.7	4.2	4.6	5.0	7.1
30	3.3	441	3.3	6.5		6.5	5.5	8.3	4.2	4.6	8.9	5.9
31	2.0		3.3	54		7.7		10.1		4.6	10.1	
	99.3	2668.1	1477.8	357.9	460.9	3117.1	537.2	201.3	256.9	247.5	273.5	180.8
MEAN	3.20	88.9	47.7	11.5	13.8	101.	17.9	6.49	8.56	7.98	8.82	6.03
ACRE-FEET	197.	5,290.	2,930.	710.	795.	6,180.	1,170.	399.	510.	491.	542.	359.

Remarks:

YEAR OR PERIOD MEAN 26.8
ACRE-FEET 19,570.

76D14M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F354-R

Daily discharge, in second-feet of COYOTE CREEK below Spring Street, for the year ending September 30, 19 69

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.4	11.4	4.6	4.3	13.3	50	24	10	7.4	8.8	8.8	5.2
2	5.5	9.4	4.6	5.2	10	45	24	11.4	8.1	8.8	8.8	4.3
3	8.1	8.1	6.2	6.2	10	39	153	8.8	7.4	9.4	8.8	4.9
4	8.8	35	6.8	7.4	14.6	24	8.1	8.1	8.8	8.8	8.8	5.5
5	7.4	8.1	8.8	4.9	1760	21	104	8.8	8.8	9.4	9.4	5.5
6	4.6	7.4	6.2	4.9	956	21	38	12	8.1	10	8.8	5.2
7	4.6	7.4	9.4	5.2	74	18.6	3.7	14.6	8.1	10.7	8.8	5.2
8	6.8	8.1	10.7	4.9	47	17.2	3.4	11.4	6.1	8.1	8.8	6.8
9	4.3	7.4	8.8	4.3	17.2	13.3	3.1	11.4	6.1	6.8	8.8	6.2
10	5.2	8.8	10.7	4	12	87	7.4	12	6.1	7.4	8.8	6.2
11	5.2	8.8	65	3.7	12	31	9.4	10.7	7.4	10	8.8	6.8
12	4.9	5.2	9.4	3.7	14.6	18.6	9.4	10	8.1	12	9.4	6.2
13	6.2	5.2	5.5	155	14.6	88	12	8.8	9.4	5.5	9.4	6.2
14	7.4	4.9	8.1	746	11.4	18.6	13.3	7.4	8.1	6.1	10	6.8
15	6.2	91	8.8	18.6	298	17.2	9.4	7.4	6.8	7.4	10	6.2
16	4.6	19	41	8.8	138	12	10.7	8.1	10	6.8	10	6.8
17	4.6	3.4	6.2	8.8	11.4	11.4	14.6	8.8	8.1	7.4	9.4	6.8
18	6.2	3.4	5.2	180	276	12	12	8.8	8.1	8.1	10	6.8
19	7.4	3.7	4.9	626	165	10.7	15.9	8.1	8.8	8.1	11.4	6.8
20	6.8	4	30	3,860	39	13.3	15.9	8.1	9.4	6.8	12	8.1
21	6.2	4	7.4	1,410	11.4	382	13.3	8.8	8.8	7.4	10	8.8
22	10.7	4.3	5.5	224	580	58	10	8.8	9.4	9.4	6.8	6.8
23	15.9	4	6.8	53	2,370	14.6	10	15.9	8.8	9.4	6.8	6.8
24	6.8	5.5	6.8	1,760	2,070	13.3	13.3	8.1	9.4	8.1	6.2	8.1
25	7.4	5.2	438	4,420	3,290	10.7	14.6	8.1	10	8.1	6.2	8.8
26	8.1	5.2	224	792	508	8.8	14.6	8.8	8.8	8.8	5.5	10
27	9.4	9.4	8.8	230	206	10	12	13.3	9.4	8.1	6.8	6.8
28	8.1	6.8	4.3	164	92	12	12	9.4	9.4	10.7	4.9	6.8
29	9.4	4.6	5.5	58		12	15.9	10	9.4	9.4	4.6	6.2
30	53	4.3	4.6	22		14.6	13.3	8.1	8.8	9.4	4.9	9.1
31	15.9		4.9	13.3		19.9		9.4		9.4	4.3	
	273.1	313	977.5	14,808.2	13,021.5	1124.8	620.3	303.4	251.4	264.6	256	199.7
MEAN	8.81	10.4	31.5	478.	465.	36.7	20.7	9.79	8.38	8.54	8.26	6.66
ACRE-FEET	542.	621.	1,940.	29,370.	25,830.	2,230.	1,230.	602.	499.	525.	508.	396.

Remarks:

YEAR OR PERIOD MEAN 88.8
ACRE-FEET 64,290.

STATION F378-R

DOMINGUEZ CHANNEL at Vermont Avenue

LOCATION: LAT. 33°52'17", LONG. 118°17'25", ON THE RIGHT (SOUTH) BANK, 93 FEET ABOVE VERMONT AVENUE, ABOUT ONE MILE SOUTH OF GARDENA. ELEVATION OF ZERO GAGE HEIGHT 0.00 FEET.

DRAINAGE AREA: 37.1 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE, 75 FEET WIDE BY 18 FEET DEEP WITH 21 FEET AND 6 FEET WIDE BY 2.5 FEET TRAPEZOIDAL LOW FLOW CHANNEL AT CENTER.
CONTROL - FORMED BY CHANNEL.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING, HIGH FLOWS FROM VERMONT AVENUE BRIDGE.

RECORDER: A CONTINUOUS RECORDER AND SERVO-MANOMETER WERE IN SERVICE FROM NOVEMBER 23, 1966 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: NONE.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 10,500. SECOND-FEET MARCH 7.
MINIMUM: 1.0 SECOND-FOOT JANUARY 1.

1968-69
MAXIMUM: 12,320. SECOND-FEET JANUARY 20.
MINIMUM: 1.0 SECOND-FOOT AT VARIOUS TIMES.

1966-69
MAXIMUM: 12,320. SECOND-FEET JANUARY 20, 1969.
MINIMUM: 0.8 SECOND-FOOT APRIL 17, 1967.

ACCURACY: FAIR.

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

REMARKS: GAGE IS AFFECTED BY TIDES GREATER THAN 4.0 FEET ABOVE MEAN LOWER LOW WATER.

76D74M C2b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F378-R

Daily discharge, in second-feet of DOMINGUEZ CHANNEL at Vermont Avenue for the year ending September 30, 19 68

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	1.8	2.7	1	2.1	1.7	143	2.1	2.1	2.7	c 2.9	c 2.6
2	1.7	2.7	1.5	3.5	1.6	1.3	497	2.2	2.7	3.5	2.8	2.7
3	1.7	1.8	1.4	3.1	1.5	1.3	2.2	1.8	2	3.5	2.7	2.7
4	2.2	1.5	1.4	1.3	1.5	1.3	1.6	1.7	2.9	3.1	2.6	2.8
5	1.5	1.6	14	1.1	1.5	1.3	1.7	1.7	2.2	2.3	2.4	2.8
6	1.4	2	2	1.1	1.8	1.5	1.6	1.6	2.2	2.9	2.3	2.8
7	1.4	2.1	31	1.1	2.6	1,070	1.6	2.9	2	2.3	2.2	2.7
8	1.3	2.1	9.8	1.1	2.4	674	2.3	2.9	1.7	2.1	2.1	2.7
9	1.3	2.2	1.7	2.2	33	10	1.7	2	1.8	2.3	2.1	2.6
10	1.4	1.8	1.3	1.8	5.3	2.1	2.3	2.4	1.6	2.3	2.1	2.5
11	1.4	1.8	1.2	38	2.3	1.3	2.5	2.2	1.7	1.8	2.2	2.5
12	1.3	1.8	1.5	1.8	1.8	1.5	2.2	2.2	1.4	1.8	2.2	2.4
13	1.3	2	1.4	1.4	67	51	2.1	1.8	1.6	2.1	2.3	2.4
14	1.3	2.2	1.5	1.3	11	5.6	2.3	2.1	1.8	1.7	2.3	2.4
15	1.4	1.7	1.5	1.7	1.6	2	2.4	2.2	1.8	1.6	2.3	2.3
16	1.6	2.1	1.5	1.7	1.8	12	2.1	2.3	1.6	2.2	2.2	2.2
17	1.6	2	2	1.7	35	9	1.8	2.4	1.7	2.4	2	2.1
18	2.1	1.8	211	1.7	3.3	1.7	1.3	2.2	1.8	2.3	1.9	2
19	2.4	227	109	1.8	2.2	1.6	1.8	2.4	1.7	2.9	1.8	2
20	2.2	302	3.5	1.7	1.3	1.5	1.7	2.2	1.8	2.7	1.7	2.1
21	2.0	1,920	2.1	1.7	1.3	1.3	1.3	2.2	1.7	3.3	1.5	2.2
22	2.0	179	1.6	1.8	1.4	1.7	1.3	2.2	1.8	c 3.1	1.4	2.3
23	1.7	8	1.4	2	1.3	1.7	1.2	2.3	1.6	3.3	1.5	2.5
24	2.0	2.9	1.3	1.8	1.4	1.6	1.3	1.8	1.8	3.5	1.7	2.6
25	2.6	1.6	1.1	2.1	1.4	1.8	1.3	1.8	2.1	3.6	1.9	2.7
26	2.6	1.5	1.3	18.1	1.7	2.7	1.3	2.2	2.3	3.6	2	2.8
27	2	1.4	1.6	82	3.3	2.3	1.4	2.3	2	3.6	2.2	2.8
28	2	8.9	1.6	8.2	1.8	2.3	1.3	2.6	2.4	9.9	2.4	2.8
29	2.1	2	1.4	1.8	1.8	1.7	1.5	2	2.4	2.9	2.5	2.8
30	1.7	144	1.2	1.8		2.2	1.8	2	2.9	2.9	2.5	c 2.8
31	2		1.1	62		1.8		2.1		c 2.9	c 2.6	
	54.7	2833.3	416.5	253.8	195.6	1,872.8	688.7	66.8	59.1	91.1	67.3	75.6
MEAN	1.76	94.4	13.4	8.19	6.74	60.4	23.0	2.15	1.97	2.94	2.17	2.52
ACRE-FEET	108.	5,620.	826.	503.	388.	3,710.	1,370.	132.	117.	181.	133.	150.

Remarks:

YEAR OR PERIOD MEAN 18.2
ACRE-FEET 13,240.

7-57(1M) Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F378-R

Daily discharge, in second-feet of DOMINGUEZ CHANNEL at Vermont Avenue for the year ending September 30, 19 69

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.8	1.7	1.3	1.7	1.3	5.6	2.0	3.1	2.4	c 3.7	3.5	3.9
2	4.5	1.6	1.6	2.1	1.6	1.7	26	2.6	2.2	a 3.3	2.9	3.7
3	5.8	2.8	2.0	2.1	1.3	1.6	39	2.7	2.0	3.3	3.3	2.9
4	3.5	9.2	1.7	2.3	1.4	2.0	1.4	2.9	2.2	3.3	3.1	2.7
5	2.4	1.4	2.9	2.0	151	2.6	108	4.3	2.9	3.3	3.1	3.9
6	2.4	1.5	2.6	2.0	208	2.2	7.6	3.9	2.3	3.3	3.7	3.1
7	1.7	1.6	2.6	1.7	5.3	1.7	1.7	2.7	2.9	3.3	4.7	3.3
8	2.4	1.7	2.2	1.8	3.3	2.1	1.6	2.4	2.6	3.3	3.5	2.4
9	2.4	2.0	2.2	1.7	1.5	1.7	1.8	2.0	2.0	3.3	2.9	2.3
10	2.2	1.7	2.6	2.0	1.3	39	1.8	2.4	2.6	a 7.0	3.1	3.1
11	2.2	1.6	46	1.8	1.8	1.8	1.8	2.4	2.4	13.7	2.7	2.6
12	2.2	1.5	1.5	2.0	5.5	1.5	1.6	2.1	2.6	3.9	2.6	2.4
13	2.0	1.3	1.3	244	2.4	23	1.8	2.0	2.1	4.1	4.3	2.4
14	30	1.4	1.5	186	2.2	1.8	2.1	2.3	2.7	4.7	3.1	2.7
15	2.3	65	1.2	3.1	81	1.4	2.2	2.1	2.4	4.6	3.3	2.4
16	2.2	5.3	c 1.6	2.0	5.2	1.3	2.4	2.1	2.4	4.4	3.7	4.1
17	2.0	2.0	2.0	1.3	1.7	1.4	2.3	1.8	3.3	4.3	3.3	3.1
18	2.0	1.7	1.6	198	51	1.6	2.2	2.1	3.5	3.1	2.3	3.7
19	2.1	1.6	1.4	629	93	1.4	2.4	2.1	2.7	2.4	2.4	2.9
20	2.3	1.6	c 1.5	2090	19.5	1.6	2.4	2.4	2.9	2.3	2.7	2.7
21	2.1	1.6	1.6	c 720	45	79	2.1	2.4	3.5	2.4	2.6	2.9
22	2.1	1.6	1.5	21	231	4.2	2.1	2.3	3.5	2.4	4.1	2.3
23	2.0	2.4	2.2	26	744	1.6	2.7	2.4	4.3	2.3	3.5	2.4
24	2.1	1.5	2.6	801	150	1.3	1.7	2.7	6.1	4.1	3.5	2.2
25	2.0	1.2	237	1,400	406	1.6	1.8	3.1	c 5.8	5.3	2.6	2.3
26	1.7	1.2	102	180	14.0	1.8	2.4	2.3	5.4	2.3	3.5	2.2
27	2.2	1.3	2.7	10.0	5.0	2.2	2.6	2.3	5.1	2.4	3.3	2.7
28	2.3	1.4	2.0	85	38	2.1	2.6	2.4	4.7	2.4	3.7	2.7
29	3.2	1.3	5.7	8.5		1.8	3.5	2.2	4.4	2.3	3.7	2.3
30	27	1.4	2.0	2.0		1.7	2.9	2.2	c 4.1	2.4	3.3	3.1
31	2.2		1.8	1.5		2.0		2.4		5.0	2.9	
	136.3	123.1	442.4	6,631.6	2,272.3	196.3	236.5	77.1	98.0	117.9	100.9	85.4
MEAN	4.40	4.10	14.3	214.	81.2	6.33	7.88	2.49	3.27	3.80	3.25	2.85
ACRE-FEET	270.	244.	877.	13,150.	4,510.	381.	469.	153.	194.	234.	200.	169.

Remarks:

YEAR OR PERIOD MEAN 28.8
ACRE-FEET 20,850.

STATION U7-R

FISH CREEK above Mouth of Canyon

LOCATION: LAT. 34°10'00", LONG. 117°55'25", ON THE LEFT (EAST) BANK, 0.8 MILE UPSTREAM OF MOUTH OF CANYON AND THREE MILES NORTHEAST OF DUARTE. ELEVATION OF ZERO GAGE HEIGHT ABOUT 1,000 FEET.

DRAINAGE AREA: 6.36 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - NATURAL ROCK AND GRAVEL. CONTROL - BROAD-CRESTED WEIR.

REGULATION AND DIVERSION: NONE.

RECORDS AVAILABLE: JULY TO SEPTEMBER 1916; JULY 1917 TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 282. SECOND-FEET NOVEMBER 19.
MINIMUM: 0.4 SECOND-FOOT AUGUST 25.

1968-69
MAXIMUM: 13,000 SECOND-FEET JANUARY 25.
MINIMUM: 0.7 SECOND-FOOT SEVERAL DAYS.

1916-69
MAXIMUM: 13,000 SECOND FEET JANUARY 25, 1969.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD FOR LOW FLOWS; POOR FOR HIGH FLOWS.

OPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY.

REMARKS: AVERAGE DISCHARGE, 52 YEARS, 4.92 SECOND-FEET.

76D16M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U7-R

Daily discharge, in second-feet of FISH CREEK above Mouth of Canyon, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	1.6	6.2	3.2	2.9	2.6	4.6	1.7	1.2	0.8	0.6	0.7
2	2.1	1.7	5.1	3.2	2.7	2.8	4.3	1.8	1.2	0.7	0.6	0.8
3	2.1	1.7	4.3	3.0	2.4	2.7	2.7	1.9	1.1	0.7	0.5	0.8
4	2.1	1.7	3.8	2.8	2.3	2.7	2.4	1.7	1.3	0.7	0.5	1.0
5	2.1	1.8	3.6	2.8	2.2	2.9	2.3	1.8	1.6	0.8	0.5	0.9
6	2.0	1.9	3.4	2.7	2.1	3.3	2.3	1.7	1.5	0.8	0.5	0.9
7	1.9	1.8	3.3	2.6	2.0	5.5	2.3	1.6	1.5	0.8	0.6	0.8
8	1.8	1.7	3.2	2.5	1.9	44	2.1	1.6	1.6	0.7	0.5	0.8
9	1.9	1.7	3.1	2.4	3.4	7.8	1.8	1.6	1.5	0.7	0.4	0.7
10	1.9	1.8	2.8	2.8	3.0	5.8	1.7	1.6	1.3	0.6	0.4	0.7
11	1.8	1.7	2.7	3.2	2.3	5.5	1.7	1.5	1.1	0.6	0.4	0.8
12	1.8	1.6	2.6	2.5	2.4	4.4	1.9	1.8	1.1	0.5	0.5	0.8
13	1.8	1.5	2.5	2.4	5.5	3.8	1.9	1.8	1.0	0.5	0.5	0.9
14	1.8	1.5	2.7	2.3	6.8	3.4	1.8	1.6	1.0	0.6	0.6	1.0
15	1.6	1.6	2.7	2.3	5.1	2.9	1.8	1.4	0.9	0.7	0.6	1.2
16	1.6	1.7	2.7	2.4	4.3	2.8	2.0	1.4	0.8	0.7	0.7	1.2
17	1.6	1.7	2.8	2.2	4.5	2.7	1.8	1.3	0.8	0.7	0.8	1.1
18	1.6	1.9	6.4	2.1	4.1	2.5	1.7	1.2	0.9	0.6	0.8	1.0
19	1.5	32	6.7	2.0	3.9	2.3	1.6	1.2	0.7	0.5	0.6	1.1
20	1.5	9.5	6.2	2.0	4.1	2.2	1.8	1.2	0.7	0.5	0.7	1.3
21	1.7	18	4.7	1.9	4.0	2.1	1.8	1.3	0.6	0.5	0.6	1.2
22	1.9	8.0	4.3	1.9	3.8	2.2	1.6	1.4	0.6	0.5	0.6	1.0
23	1.8	5.9	4.0	1.9	3.5	2.2	1.5	1.4	0.6	0.5	0.5	0.9
24	1.7	4.2	4.0	1.8	3.4	2.3	1.4	1.4	0.7	0.5	0.4	1.0
25	1.7	3.4	3.9	1.9	3.1	2.2	1.3	1.2	0.8	0.5	0.4	0.9
26	2.0	3.0	3.7	2.0	2.6	2.4	1.3	1.2	0.7	0.5	0.4	0.9
27	1.9	2.8	3.6	6.6	2.9	2.3	1.5	1.1	0.8	0.5	0.5	1.0
28	1.9	3.1	3.5	4.9	2.7	2.3	1.4	1.2	0.8	0.6	0.5	1.1
29	1.9	2.7	3.4	3.5	2.5	2.3	1.6	1.2	1.0	0.6	0.6	1.2
30	1.7	11	3.3	3.1		2.4	1.7	1.2	0.9	0.6	0.6	1.2
31	1.6		3.3	3.7		2.5		1.3		0.6	0.7	
	56.5	134.2	118.5	84.6	96.4	137.8	59.6	45.3	30.4	19.3	16.9	28.8
MEAN	1.82	4.47	3.82	2.73	3.32	4.45	1.99	1.46	1.01	0.62	0.55	0.96
ACRE-FEET	112.	266.	235.	168.	191.	273.	118.	90.	60.	38.	34.	57.

Remarks:

YEAR OR PERIOD MEAN 2.26
ACRE-FEET 1,640.

76D16M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U7-R

Daily discharge, in second-feet of FISH CREEK above Mouth of Canyon, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	1.2	0.8	1.1	60	95	18	10	7.7	5.2	3.6	2.0
2	1.2	1.2	0.8	1.2	45	75	19	10	7.6	5.2	3.6	2.0
3	1.2	1.2	0.8	1.2	37	68	24	10	7.5	5.2	3.4	2.0
4	1.2	1.2	0.7	1.3	31	61	17	11	7.3	5.1	3.1	2.0
5	1.2	1.2	0.7	1.4	25	56	25	9.9	7.2	5.1	3.1	2.0
6	1.2	1.1	0.7	1.5	166	52	20	10	7.2	5.1	3.1	2.0
7	1.2	1.1	0.7	1.5	137	50	18	9.3	7.2	5.1	3.0	2.0
8	1.2	1.0	0.8	1.6	76	46	16	8.7	7.1	5.1	3.0	2.0
9	1.2	1.0	0.8	1.9	82	42	15	8.2	7.0	5.1	3.0	2.0
10	1.2	1.0	0.8	1.9	92	40	16	8.1	7.0	5.2	3.0	2.0
11	1.2	0.9	0.8	2.0	102	38	15	8.1	7.0	5.4	3.0	2.0
12	1.2	0.9	0.8	2.0	72	35	14	7.9	7.1	5.7	3.0	2.0
13	1.2	1.0	0.8	2.8	50	33	14	7.9	6.7	5.8	2.6	2.0
14	1.2	0.9	0.8	11	40	31	13	9.0	6.4	5.9	2.0	2.0
15	1.2	1.4	1.0	2.8	35	29	13	8.7	6.3	5.4	1.9	2.0
16	1.2	1.0	1.1	2.2	29	28	13	8.7	6.4	5.4	1.8	2.5
17	1.2	0.8	1.0	1.9	53	27	12	7.9	6.5	5.2	1.8	2.8
18	1.1	0.8	1.0	2.0	32	26	13	11	6.1	4.9	1.7	2.8
19	1.1	0.8	1.0	14	24	25	12	10	5.8	4.6	1.5	2.7
20	1.2	0.8	1.1	75	23	24	12	9.7	5.8	4.6	1.3	2.7
21	1.2	0.8	1.0	790	21	30	13	9.7	5.8	4.3	1.2	2.7
22	1.2	0.8	1.0	350	132	27	13	9	5.8	4.0	1.1	2.7
23	1.1	0.8	1.0	130	282	25	13	7.1	5.8	3.6	1.1	2.6
24	1.1	0.7	1.0	450	566	23	12	6.9	5.6	3.5	2.8	2.6
25	1.1	0.7	1.3	5,540	930	22	11	7.3	5.6	3.4	4.1	2.6
26	1.1	0.7	1.9	3,110	450	21	11	6.8	5.6	3.2	4.2	2.6
27	1.1	0.7	1.3	2,280	250	20	11	7.1	5.4	3.0	2.9	2.6
28	1.1	0.7	1.1	800	150	19	11	7.2	5.4	3.0	2.4	2.5
29	1.2	0.7	1.2	125		18	10	7.6	5.3	2.9	2.2	2.5
30	1.3	0.8	1.2	85		19	11	7.6	5.2	3.1	2.0	2.5
31	1.3		1.1	70		18		7.6		3.7	2.0	
	36.6	28.0	30.2	13,860.3	3,892	1,123	435	268.0	192.4	142.0	78.5	69.4
MEAN	1.18	0.93	0.97	447.	139.	36.2	14.5	8.65	6.41	4.58	2.53	2.31
ACRE-FEET	73.	56.	60.	27,490.	7,720.	2,230.	863.	532.	382.	282.	156.	138.

Remarks:

YEAR OR PERIOD MEAN 55.2
ACRE-FEET 39,980.

STATION F65B-R

LITTLE DALTON CREEK above Mouth of Canyon

LOCATION: LAT. 34°10'03", LONG. 117°50'15", ON THE LEFT (EAST) BANK, 120± FEET ABOVE GLENDORA MOUNTAIN ROAD CROSSING, 0.8 MILE ABOVE MOUTH OF CANYON AND 2.6± MILES NORTHEAST OF GLENDORA. ELEVATION OF ZERO GAGE HEIGHT 1,334.38 FEET.

DRAINAGE AREA: 2.7 SQUARE MILES.

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

DISCHARGE MEASUREMENTS; LOW FLOWS BY WADING; HIGH FLOWS FROM BRIDGE, 122 FEET BELOW STATION.

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967, TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: NONE.

RECORDS AVAILABLE: F65-R - JANUARY 28, 1929 TO NOVEMBER 23, 1938. F65B-R - NOVEMBER 30, 1938, TO JANUARY 22, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 49. SECOND-FEET MARCH 8.
MINIMUM: NO FLOW AT VARIOUS TIMES.

1968-69
MAXIMUM: NOT DETERMINED.
MINIMUM: NO FLOW AT VARIOUS TIMES.

1929-69
MAXIMUM: NOT DETERMINED, 1969.
MAXIMUM: 1,700. SECOND-FEET NOVEMBER 20, 1951.
MINIMUM: NO FLOW SEVERAL MONTHS EACH YEAR.

REMARKS: THE STORMS OF JANUARY AND FEBRUARY, 1969, CAUSED EXCESSIVE MOVEMENT OF ROCKS AND DEBRIS INTO THE STREAM CHANNEL, RESULTING IN COMPLETE DESTRUCTION OF THE STATE-DISCHARGE RELATIONSHIP. THESE CONDITIONS PERSISTED FOR SEVERAL MONTHS; THEREFORE, THE SUMMARY OF DISCHARGE FOR THE 1968-69 WATER YEAR IS NOT PUBLISHED.

740T4M Cib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F65B-R

Daily discharge, in second-feet of LITTLE DALTON CREEK above Mouth of Canyon, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.2	1.0	0.4	0.5	0.5	2.2	0.2	0.2	+	0	0
2	0.4	0.1	0.8	0.4	0.5	0.5	1.6	0.2	0.1		0	0
3	0.4	0.1	0.6	0.4	0.4	0.3	0.7	0.3	0.1		0	0
4	0.4	0.1	0.7	0.4	0.3	0.3	0.7	0.3	0.1		0	0
5	0.3	0.3	0.8	0.4	0.3	0.3	0.6	0.3	0.2		0	0
6	0.3	0.4	0.7	0.3	0.3	0.3	0.6	0.3	0.2		0	0
7	0.3	0.3	0.6	0.3	0.3	2.0	0.4	0.3	0.2		0	0
8	0.3	0.3	0.6	0.3	0.4	9.4	0.3	0.3	0.2		0	0
9	0.4	0.2	0.6	0.3	0.7	1.1	0.2	0.3	0.2	+	0	0
10	0.4	0.2	0.5	0.3	0.7	0.9	0.2	0.3	0.1	0	0	0
11	0.5	0.2	0.5	0.4	0.6	0.9	0.2	0.2	+	0	0	0
12	0.5	0.2	0.6	0.4	0.7	1.4	0.2	0.3		0	0	0
13	0.5	0.2	0.6	0.4	a 2.0	2.0	0.2	0.3		0	0	0
14	0.4	0.3	0.6	0.4	1.2	1.1	0.2	0.2		0	0	0
15	0.3	0.3	0.6	0.4	0.8	1.2	0.2	0.2		0	0	0
16	0.3	0.3	0.7	0.4	0.7	1.1	0.2	0.2		0	0	0
17	0.1	0.3	0.7	0.5	0.8	1.1	0.2	0.2		0	0	0
18	0.1	0.3	2.0	0.5	0.8	0.7	0.2	0.2		0	0	0
19	0.1	11	1.8	0.5	0.8	0.6	0.2	0.2		0	0	0
20	0.1	2.1	0.9	0.4	0.9	0.6	0.2	0.2		0	0	0
21	0.2	4.1	0.8	0.4	0.8	0.5	0.2	0.3		0	0	0
22	0.3	1.6	0.6	0.3	b 0.8	0.3	0.2	0.3		0	0	0
23	0.3	0.9	0.5	0.3	0.8	0.3	0.2	0.3		0	0	0
24	0.3	0.6	0.5	0.3	0.7	0.2	0.2	0.2		0	0	0
25	0.3	0.5	0.5	0.3	0.7	0.4	0.2	0.2		0	0	0
26	0.3	0.5	0.5	0.3	0.6	0.4	0.2	0.1		0	0	0
27	0.3	0.5	0.5	0.9	0.6	0.4	0.2	+		0	0	0
28	0.3	0.7	0.5	1.2	b 0.5	v 0.3	0.2	+		0	0	0
29	0.3	0.6	0.5	0.8	0.5	0.3	0.2	+		0	0	0
30	0.3	2.8	0.4	0.6		0.3	0.2	0.1	+	0	0	0
31	0.2		0.4	0.7		v 0.3		0.2		0	0	
	9.7	30.2	21.6	13.9	19.7	30.0	11.5	6.7	1.6	+	0	0
MEAN	0.31	1.01	0.69	0.45	0.68	0.97	0.38	0.22	0.05	+	0	0
ACRE-FEET	19.	60.	43.	28.	39.	60.	23.	13.	3.2	+	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.39
ACRE-FEET 284.

STATION LI-R

LITTLE ROCK CREEK above Little Rock Dam

LOCATION: LAT. 34°27'47", LONG. 118°01'94", ON THE RIGHT (EAST) BANK, ABOUT TWO MILES ABOVE LITTLE ROCK-PALMDALE IRRIGATION DISTRICT'S DAM AND ABOUT 1,500 FEET UPSTREAM FROM SANTIAGO CREEK AND FIVE MILES SOUTH OF LITTLE ROCK. ELEVATION OF ZERO GAGE HEIGHT 3,290± FEET.

DRAINAGE AREA: 49.2 SQUARE MILES.

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

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

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: NONE.

RECORDS AVAILABLE: OCTOBER 1, 1930 TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 444. SECOND-FEET NOVEMBER 21.
MINIMUM: PLUS FLOW AT VARIOUS TIMES.

1968-69
MAXIMUM: 5,900. SECOND-FEET JANUARY 25.
MINIMUM: PLUS FLOW AT VARIOUS TIMES.

1930-67
MAXIMUM: 17,000. SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: ORIGINALLY LOCATED AND INSTALLED BY THE LITTLE ROCK-PALMDALE IRRIGATION DISTRICT. REINSTALLED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND OPERATED IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY.

76D7-M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. LI-R

Daily discharge, in second-feet of LITTLE ROCK CREEK above Little Rock Dam, for the year ending September 30, 19 68

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	1.1	25	18	11	24	15	9.6	4.5	f 0.4	4.5	e 0.1
2	0.6	1.1	19	17	11	23	21	10	3.4	0.4	2.2	0.1
3	0.6	1.1	18	17	15	21	19	10	3.4	0.4	1.7	0.1
4	0.6	1.7	16	16	16	19	21	9.0	3.4	0.4	1.1	0.1
5	0.6	1.1	15	15	17	17	22	8.4	3.9	0.3	0.6	0.1
6	0.6	1.1	13	15	15	17	21	8.4	5.6	0.3	f 0.4	0.1
7	1.1	1.7	13	15	15	17	20	7.9	6.7	0.3	e 0.3	0.1
8	1.1	1.1	12	15	15	41	17	8.4	8.4	0.3	0.3	0.1
9	1.1	1.1	11	15	29	34	16	8.4	7.3	0.3	0.3	0.1
10	1.1	1.1	11	15	90	28	15	8.4	6.2	0.3	0.3	e 0.1
11	1.7	1.1	11	15	57	25	15	8.4	4.5	0.3	0.3	+
12	1.1	1.1	10	14	42	23	16	8.4	4.5	0.3	0.3	
13	a 1.1	1.1	9.0	13	40	23	16	9.0	3.9	0.2	0.3	
14	1.1	0.6	7.9	13	40	23	16	9.0	3.4	0.2	0.2	
15	1.1	1.1	11	12	39	22	16	8.4	3.9	0.2	0.2	
16	1.1	1.1	10	12	32	22	16	6.7	3.4	0.2	0.2	
17	a 1.1	1.7	9.6	11	32	23	16	5.6	2.2	0.2	0.2	
18	1.1	2.2	13	11	38	23	16	5.0	1.7	0.2	0.2	
19	1.1	139	14	9.6	36	21	15	4.5	0.6	0.2	0.2	
20	1.1	176	11	9.6	38	18	13	3.9	f 0.6	0.1	0.2	
21	1.1	264	8.4	10	38	17	13	4.5	0.6	0.1	0.2	
22	1.1	144	7.9	10	38	16	13	6.2	0.6	0.1	0.2	
23	1.1	67	7.3	9.6	37	15	12	6.2	0.5	0.1	0.2	
24	1.1	48	9.6	10	38	15	12	6.2	0.5	0.1	0.2	
25	1.1	32	15	10	35	14	12	5.6	0.5	0.1	0.2	
26	1.1	23	25	9.6	33	14	12	4.5	0.5	0.1	0.2	
27	1.1	21	25	15	32	13	13	3.9	0.5	0.1	0.2	
28	0.6	21	23	13	31	13	11	2.8	0.4	0.1	0.2	
29	1.1	21	21	12	28	12	8.4	1.7	0.4	f 0.1	0.1	
30	1.1	23	21	11		12	8.4	3.9	f 0.4	21	0.1	+
31	1.1		19	10		12		4.5		9.0	e 0.1	
	31.2	1,001.2	441.7	398.4	938	617	456.8	207.4	86.4	36.4	15.9	1.0
MEAN	1.01	33.4	14.2	12.8	32.3	19.9	15.2	6.69	2.88	1.17	0.51	0.03
ACRE-FEET	62.	1,990.	876.	790.	1,860.	1,220.	906.	411.	171.	72.	32.	2.0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 11.6
ACRE-FEET 8,390.

USGS 1967M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

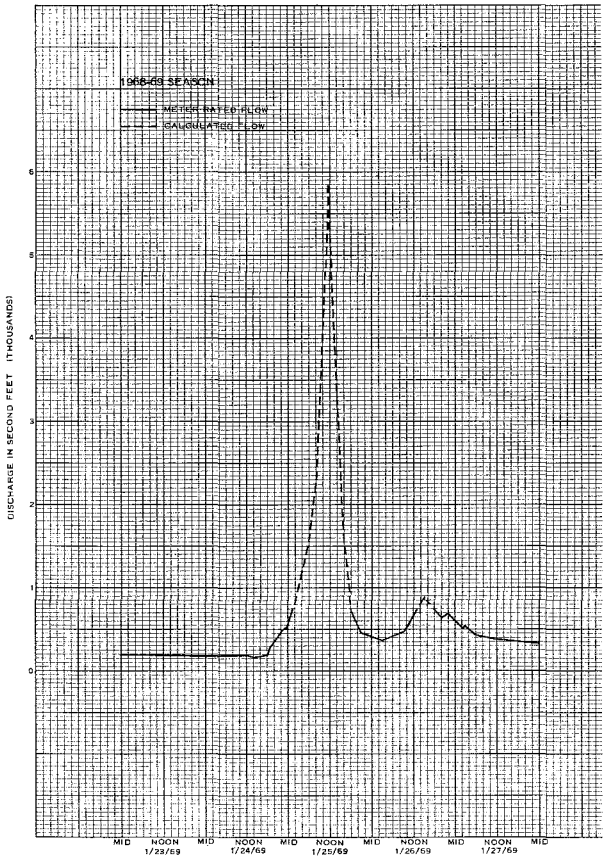
Sta. No. L1-R

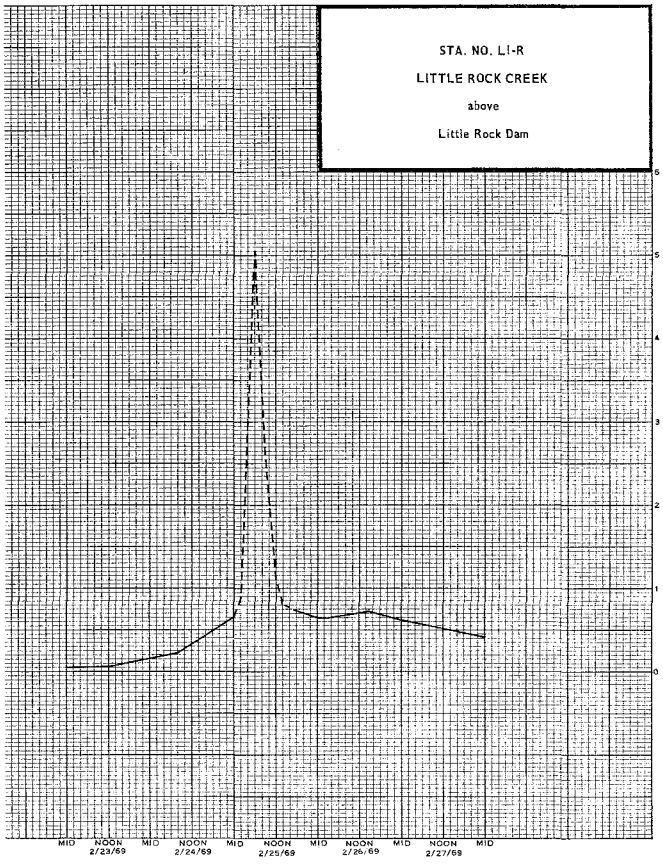
Daily discharge, in second-feet of LITTLE ROCK CREEK above Little Rock Dam, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.1	1.5	2.2	e 15	299	197	71	19	7.0	2.8	5.5
2	+	0.1	1.5	2.2	11	261	166	69	18	7.0	1.6	5.0
3	+	0.2	1.5	2.2	21	256	149	64	a 18	6.2	1.6	4.4
4	+	0.2	1.5	2.2	42	216	135	62	18	6.2	0.6	3.8
5	+	0.3	1.7	3.4	e 61	151	137	60	18	6.2	1.1	3.3
6	+	0.3	1.7	3.9	130	e 135	142	62	18	7.0	1.1	3.3
7	+	0.3	1.7	3.4	87	130	125	66	19	7.0	0.6	2.8
8	+	0.4	1.7	2.8	73	124	122	63	19	6.2	0.6	2.8
9	+	0.4	1.7	2.8	70	120	120	63	19	5.5	1.1	1.6
10	+	0.4	1.7	2.2	71	116	125	62	a 19	5.5	1.1	0.6
11	+	0.5	1.7	1.7	71	113	128	60	19	6.2	1.6	0.6
12	+	0.5	1.7	1.7	70	109	128	59	19	9.2	1.6	0.6
13	+	0.6	1.7	1.7	68	113	125	56	17	8.5	2.2	0.6
14	+	0.6	1.7	12	67	116	120	53	15	7.0	3.3	0.6
15	+	1.1	1.7	11	67	119	116	50	15	7.0	3.3	0.6
16	+	1.4	1.7	6.2	66	120	110	48	17	6.2	3.3	0.6
17	+	1.5	1.7	4.5	62	125	106	46	15	5.5	3.8	0.6
18	+	1.5	2.2	3.4	64	128	104	44	14	5.5	4.4	0.6
19	+	1.5	2.2	19	60	132	97	41	12	4.4	4.4	0.6
20	+	1.4	2.8	159	57	e 139	97	39	12	4.4	5.0	0.6
21	+	1.4	2.8	1440	55	122	102	37	12	5.0	5.5	a 1.1
22	+	1.4	2.2	244	57	100	99	35	12	5.0	5.5	a 1.1
23	+	1.4	2.2	165	87	102	95	31	12	3.3	5.5	a 1.1
24	+	1.4	2.2	235	328	104	86	29	11	2.8	6.2	1.6
25	+	1.4	2.8	1,810	1,430	116	81	27	10	2.8	7.0	1.1
26	+	1.5	9.0	580	682	139	78	26	10	2.8	7.8	1.1
27	+	1.5	6.7	407	508	153	75	24	9.2	2.8	8.5	1.1
28	+	1.5	4.5	401	351	113	72	23	10	5.5	8.5	0.6
29	+	1.5	3.4	331		119	73	21	8.5	5.0	7.8	0.6
30	+	1.5	2.8	125		139	73	20	8.5	4.4	7.0	0.6
31	+		2.8	42		177		19		3.9	6.2	
	+	27.8	76.7	6,027.5	4730.9	4,406	3,383	1,430	462.2	171.0	120.6	49.1
MEAN	+	0.93	2.47	194.	168.	142.	113.	46.1	15.4	5.5	3.9	1.6
ACRE-FEET	+	55.	152.	11,960.	9,380.	8,740.	6,710.	2,840.	916.	339.	239.	97.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 57.2
ACRE-FEET 41,430.





STATION F19-R

LITTLE TUJUNGA WASH at Foothill Boulevard

LOCATION: LAT. 34°16'28", LONG. 118°22'18", ON THE DOWNSTREAM SIDE OF FOOTHILL BOULEVARD BRIDGE, FOUR MILES EAST OF SAN FERNANDO. ELEVATION OF ZERO GAGE HEIGHT 1,068.67 FEET.

DRAINAGE AREA: 21.0 SQUARE MILES.

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

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING; HIGH FLOWS FROM FOOTHILL BOULEVARD BRIDGE.

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1957 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: NONE.

RECORDS AVAILABLE: DECEMBER 26, 1928 TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 112. SECOND-FEET NOVEMBER 19.
MINIMUM: NO FLOW PART OF YEAR.

1968-69
MAXIMUM: 1,420. SECOND-FEET FEBRUARY 25.
MINIMUM: NO FLOW PART OF YEAR.

1929-69
MAXIMUM: 8,500. SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM: NO FLOW MOST OF EACH YEAR.

ACCURACY: GOOD.

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

76D76M Gb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F19-R

Daily discharge, in second-feet of LITTLE TUJUNGA WASH at Foothill Boulevard, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	2.7	+	+	0	1.1	0	0	0	0	0
2	0	0	1.8	|	0	0	1.6	0	0	0	0	0
3	0	0	1.4	|	0	0	1.1	0	0	0	0	0
4	0	0	1.3	|	0	0	e 0.2	0	0	0	0	0
5	0	0	1.4	|	0	0	| 0.5	0	0	0	0	0
6	0	0	1.4	|	0	0	| 0.5	0	0	0	0	0
7	0	0	1.3	|	0	0.4	e 0.4	0	0	0	0	0
8	0	0	1.1	|	0	25	0	0	0	0	0	0
9	0	0	0.9	+	+	6.5	0	0	0	0	0	0
10	0	0	0.8	0	0	4.1	0	0	0	0	0	0
11	0	0	0.8	0	0	2.2	0	0	0	0	0	0
12	0	0	0.8	+	0	2.7	0	0	0	0	0	0
13	0	0	1.1	+	0.2	2.3	0	0	0	0	0	0
14	0	0	1.6	0	+	1.3	0	0	0	0	0	0
15	0	0	0.2	+	+	1.6	0	0	0	0	0	0
16	0	0	0.3	+	0	1.8	0	0	0	0	0	0
17	0	0	0.4	+	0	1.9	0	0	0	0	0	0
18	0	0	1.7	0	0	1.0	0	0	0	0	0	0
19	0	27	1.5	0	0	0.7	0	0	0	0	0	0
20	0	16	1.1	0	0	0.3	0	0	0	0	0	0
21	0	43	1.0	+	0	0.1	0	0	0	0	0	0
22	0	16	0.8	+	0	0.1	0	0	0	0	0	0
23	0	3.9	0.4	0	0	+	0	0	0	0	0	0
24	0	2.9	0.1	+	0	0.1	0	0	0	0	0	0
25	0	0.9	+	0	0	0.1	0	0	0	0	0	0
26	0	0.6	|	0	0	+	0	0	0	0	0	0
27	0	0.6	|	3.6	0	+	0	0	0	0	0	0
28	0	0.6	|	0.6	0	+	0	0	0	0	0	0
29	0	0.3	|	+	0	0	0	0	0	0	0	0
30	0	11	|	+		0	0	0	0	0	0	0
31	0		+	e 1.0		0		0		0	0	
	0	122.8	25.9	5.2	0.2	52.2	5.4	0	0	0	0	0
MEAN	0	4.09	0.83	0.17	0.01	1.68	0.18	0	0	0	0	0
ACRE-FEET	0	244.	51.	10.	0.4	104.	11.	0	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.58
ACRE-FEET 420.

7601M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F19-R

Daily discharge, in second-feet of LITTLE TUJUNGA WASH at Foothill Boulevard, for the year ending September 30, 19 69

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	28	94	v 8.0	v 8.6	v 2.8	v 0.5	0	0
2	0	0	0	0	21	77	8.0	8.4	2.8	0.4	0	0
3	0	0	0	0	13	58	10	8.2	2.7	0.4	0	0
4	0	0	0	0	9.0	47	11	8.0	2.7	0.4	0	0
5	0	0	0	0	8.0	34	13	7.9	2.7	0.4	0	0
6	0	0	0	0	95	39	14	7.8	2.8	0.3	0	0
7	0	0	0	0	84	39	14	7.7	2.9	0.3	0	0
8	0	0	0	0	61	36	14	7.7	3.0	0.3	0	0
9	0	0	0	0	43	32	14	7.6	3.1	0.3	0	0
10	0	0	0	0	28	26	14	7.5	3.2	0.2	0	0
11	0	0	0	0	20	v 24	13	7.4	3.3	0.1	0	0
12	0	0	0	0	18	22	12	7.3	3.2	v 0.1	0	0
13	0	0	0	0.1	7.3	20	11	7.2	3.1	0	0	0
14	0	0	0	0.1	2.1	19	10	7.0	3.0	0	0	0
15	0	0	0	0	16	18	9.0	6.7	2.9	0	0	0
16	0	0	0	0	12	16	8.0	6.4	2.8	0	0	0
17	0	0	0	0	12	15	7.0	6.1	2.7	0	0	0
18	0	0	0	0.1	14	13	6.0	6.0	2.6	0	0	0
19	0	0	0	0.5	16	12	5.0	5.7	2.4	0	0	0
20	0	0	0	25	14	12	4.0	5.4	2.2	0	0	0
21	0	0	0	191	15	11	4.0	5.1	2.0	0	0	0
22	0	0	0	56	20	11	6.9	4.8	1.8	0	0	0
23	0	0	0	15	278	10	9.8	4.4	1.6	0	0	0
24	0	0	0	54	920	10	9.7	4.1	1.5	0	0	0
25	0	0	0	166	1,180	8.6	9.6	3.8	1.4	0	0	0
26	0	0	0	248	611	7.3	9.5	3.5	1.2	0	0	0
27	0	0	0	114	165	7.3	9.3	3.2	1.0	0	0	0
28	0	0	0	79	107	7.5	9.1	2.9	0.8	0	0	0
29	0	0	0	51		7.7	8.9	2.9	0.7	0	0	0
30	0	0	0	33		7.9	v 8.8	2.9	v 0.6	0	0	0
31	0		0	28		v 8.0		v 2.9		0	0	
	0	0	0	1060.8	3817.4	749.3	290.6	185.1	69.5	3.7	0	0
MEAN	0	0	0	34.2	136.	24.2	9.69	5.97	2.32	0.12	0	0
ACRE-FEET	0	0	0	2,100.	7,570.	1,490.	576.	367.	138.	7.3	0	0

Remarks:

YEAR OR PERIOD MEAN 16.9
ACRE-FEET 12,260.

STATION F57C-R

LOS ANGELES RIVER above Arroyo Seco

LOCATION: LAT. 34°04'52", LONG. 118°13'36", ON RIGHT (WEST) WALL, 800 FEET ABOVE ARROYO SECO, LOS ANGELES. ELEVATION OF ZERO GAGE HEIGHT 292.58 FEET.

DRAINAGE AREA: 511 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR, CONCRETE, 177 FEET WIDE BY 29 FEET DEEP WITH A TRAPEZOIDAL INVERT 20 FEET AT TOP, 16 FEET WIDE AT BOTTOM AND ONE FOOT DEEP.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING; HIGH FLOWS FROM CABLE CAR 15 FEET ABOVE GAGE.

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - PARTIALLY REGULATED BY SEPULVEDA, PACOIMA, BIG TUJUNGA AND HANSEN DAMS; LOPEZ, PACOIMA, HANSEN, TUJUNGA WASH AND LOS ANGELES CITY DEPARTMENT OF WATER AND POWER'S HEADWORKS SPREADING GROUNDS; CHATSWORTH, ENCINO AND VAN NORMAN RESERVOIRS; PLUS SEVERAL DEBRIS BASINS. WATER AND POWER OCCASIONALLY RELEASES WATER FROM WELLS IN THE SAN FERNANDO VALLEY.
DIVERSION - WATER AND POWER DIVERTS FROM BIG TUJUNGA CREEK. THERE ARE VARIOUS SMALL DIVERSIONS FOR DOMESTIC AND IRRIGATION PLUS THE SEVERAL SPREADING GROUNDS (ABOVE).

RECORDS AVAILABLE: AT STATION F57-R - DECEMBER 1929 TO MAY 26, 1938; AT STATION 57B-R, MAY 26, 1938, TO APRIL 5, 1939, APRIL 5, 1939 TO DECEMBER 8, 1939, BI-WEEKLY MEASUREMENTS, AND AT STATION F57C-R DECEMBER 8, 1939, TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 30,920 SECOND-FEET MARCH 8.
MINIMUM: 3.4 SECOND-FEET OCTOBER 23.

1968-69
MAXIMUM: 41,820. SECOND-FEET JANUARY 25.
MINIMUM: 4.0 SECOND-FEET DECEMBER 8.

1929-69
MAXIMUM: 68,000. SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM: NO FLOW AT TIMES, 1929-30 TO 1933-34.

ACCURACY: FAIR.

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

76D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F57C-R

Daily discharge, in second-feet of LOS ANGELES RIVER above Arroyo Seco, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	5.8	74	b 13.0	21	19.4	553	7.7	7.7	8.2	6.7	5.8
2	9.8	6.7	42	13.0	9.2	14.9	154	7.7	7.2	11.0	7.7	5.4
3	7.2	7.2	34	15.0	8.7	11.6	14.9	9.2	8.7	8.7	7.7	6.2
4	6.2	8.2	27	12.5	13.5	11.0	5.8	6.2	10.4	9.8	6.2	7.7
5	4.6	8.7	17.5	b 13.0	9.8	11.6	5.0	7.7	10.4	9.2	9.2	7.7
6	4.6	7.7	21	14.2	11.0	44	5.4	8.7	9.8	9.8	6.7	7.7
7	4.6	11.6	19.4	12.2	12.2	848	3.8	8.2	8.2	9.2	276	8.2
8	3.8	8.7	60	14.2	12.8	4,780	5.4	12.8	7.7	10.4	21	6.2
9	4.2	9.2	17.5	13.5	145	64	6.7	10.4	6.2	11.0	18.4	7.2
10	6.2	9.8	20	11.6	89	25	6.2	8.7	7.7	10.4	10.4	7.2
11	5.4	10.4	20	152	14.9	27	7.7	8.7	8.2	9.2	5.8	12.8
12	7.2	11.0	20	15.6	15.6	20	7.2	27	14.2	8.7	5.4	6.7
13	5.4	12.2	19.4	7.7	541	315	5.0	18.4	10.4	8.2	7.7	6.2
14	5.0	11.0	19.4	7.2	58	49	4.6	17.5	9.8	5.4	6.7	5.8
15	4.6	11.6	27	7.2	20	20	5.4	8.7	8.7	5.0	7.7	5.4
16	4.6	12.8	26	7.2	11.0	26	6.2	11.0	5.8	7.2	7.2	6.2
17	5.4	11.6	23	6.2	122	59	5.4	10.4	6.2	6.7	6.2	7.7
18	5.4	11.0	1,150	6.2	27	14.2	7.7	8.7	7.7	6.2	5.4	8.7
19	5.8	3,360	360	6.7	11.6	10.4	6.2	8.2	8.2	6.2	6.2	7.7
20	5.4	1,840	53	6.7	9.2	11.6	5.8	8.2	7.7	7.2	6.2	7.2
21	4.2	7,190	34	6.2	11.0	9.2	5.4	9.2	7.7	5.0	7.2	6.2
22	3.8	2,060	b 17	10.4	12.8	7.2	7.7	7.2	8.7	5.4	7.7	5.8
23	3.4	72	20	9.2	11.0	5.8	14.2	7.2	8.7	6.2	6.2	6.7
24	3.8	28	20	11.0	6.7	5.4	6.7	7.7	8.2	6.7	5.8	7.2
25	4.6	b 19.0	19	11.6	9.2	5.8	18.4	9.2	8.2	6.7	5.0	9.2
26	3.8	b 17.0	20	13.5	14.9	6.7	9.2	7.7	7.7	6.2	4.6	8.7
27	3.8	b 17.0	29	574	14.2	7.7	6.7	14.2	10.4	6.7	7.2	9.8
28	5.8	19.4	20	85	10.4	7.2	5.0	19.4	8.7	5.4	7.7	9.8
29	5.4	13.5	20	15.6	13.5	7.7	6.2	12.8	10.4	6.2	7.2	8.7
30	5.8	1,260	17.5	13.5		7.7	8.2	8.7	7.2	6.7	8.2	9.8
31	6.7		b 15.0	295		5.8		7.2		6.2	7.2	
	163.7	16,071.1	2,281.7	1,399.9	1,265.2	6,457.9	909.1	324.6	256.8	235.1	508.5	225.6
MEAN	5.28	536.	73.6	45.2	43.5	208.	30.3	10.5	8.56	7.58	16.4	7.52
ACRE-FEET	325.	31,880.	4,530.	2,780.	2,510.	12,810.	1,800.	644.	509.	466.	1,010.	447.

Remarks:

YEAR OR PERIOD MEAN 82.2
ACRE-FEET 59,710.

76D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F57C-R

Daily discharge, in second-feet of LOS ANGELES RIVER above Arroyo Seco, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11.1	7.4	6.9	6.9	b 60	2,490	b 63	31	22	47	b 22	12.4
2	9.8	9.2	7.8	8.7	60	1,850	65	25	27	50	23	15.0
3	13.7	6.0	7.4	9.2	75	1,430	371	22	31	49	24	20
4	7.4	10.5	8.3	9.2	b 80	b 470	b 67	46	47	60	25	18.4
5	6.0	8.7	9.8	8.7	1,380	b 515	672	39	53	b 56	26	19.3
6	5.5	7.4	6.0	9.8	5,650	b 867	200	30	54	50	27	17.4
7	8.7	7.4	4.6	11.8	1,580	916	108	27	52	46	28	13.0
8	6.0	7.8	4.0	10.5	1,150	b 560	115	27	50	48	28	14.3
9	5.5	8.3	9.2	10.5	883	b 505	138	27	53	52	24	17.4
10	6.9	7.8	9.8	13.7	256	810	144	30	54	60	b 22	15.6
11	8.3	16.5	115	13	362	b 550	123	21	56	68	21	17.4
12	9.2	8.7	22	11.1	527	b 326	104	28	60	68	23	18.4
13	6.9	7.8	6.0	337	500	120	119	26	58	67	23	16.5
14	112	7.8	8.3	1,410	293	248	115	25	53	67	22	13.0
15	59	221	34	32	351	286	96	27	53	67	22	18.4
16	10.5	40	178	17.4	293	281	229	26	74	67	19.3	20
17	8.7	9.2	33	8.7	169	281	274	27	75	67	14.3	20
18	9.2	5.1	18.4	418	442	120	88	23	62	67	21	19.3
19	11.1	7.4	12.4	3,500	150	b 82	95	22	53	66	22	18.4
20	9.8	6.9	9.2	4,310	127	120	108	25	56	65	16.5	16.5
21	12.4	9.8	9.2	7,370	161	1,160	100	30	56	63	23	15.0
22	11.8	9.8	6.4	1,320	1,290	b 320	104	50	59	60	15.6	18.4
23	9.2	9.8	8.3	162	6,480	286	100	40	54	58	15.6	20
24	9.2	9.8	9.8	4,282	5,380	257	64	64	58	54	13.7	20
25	11.1	8.3	524	23,400	18,200	236	65	59	58	48	13.7	20
26	15	11.8	233	11,300	7,680	181	50	67	54	46	17.4	18.4
27	13.7	7.8	27	4,340	4,000	74	54	64	54	38	15.6	17.4
28	15	7.4	13.7	2,720	3,628	65	53	58	49	33	16.5	14.3
29	8.7	6.9	7.4	1,140		61	39	40	46	28	15.6	15.6
30	134	6.9	7.4	b 80		52	34	27	47	24	15.0	17.4
31	19.3		10.5	b 75		b 55		27		b 22	15.0	
	584.7	499.2	1,366.8	66,343.2	61,199	15,574	3,956	1,080	1,578	1,661	629.8	517.2
MEAN	18.9	16.6	44.1	2,140.	2,190.	502.	132.	34.8	52.6	53.6	20.3	17.2
ACRE-FEET	1,160.	990.	2,710.	131,600.	121,400.	30,880.	7,850.	2,140.	3,130.	3,290.	1,250.	1,030.

Remarks:

YEAR OR PERIOD MEAN 425.
ACRE-FEET 307,400.

STATION F34D-R

LOS ANGELES RIVER below Firestone Boulevard

LOCATION: LAT. 33°56'58", LONG. 118°10'23", ON THE RIGHT (WEST) BANK, 472 FEET DOWNSTREAM OF FIRESTONE BOULEVARD AND ABOUT THREE MILES WEST OF DOWNEY. ELEVATION OF ZERO GAGE HEIGHT 96.12 FEET.

DRAINAGE AREA: 596 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - TRAPEZOIDAL, CONCRETE, 355 FEET AT BOTTOM WITH 3 TO 1 RIPRAPPED SLOPES, LOW FLOW CHANNEL IN CENTER, 28 FEET WIDE AT TOP, 20 FEET WIDE AT BOTTOM AND ONE FOOT DEEP.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING; HIGH FLOWS FROM FIRESTONE BOULEVARD BRIDGE.

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1957 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - SAME AS STATION F57C-R PLUS DEVIL'S GATE DAM. DIVERSION - FLOW IS SUBJECT TO SAME DIVERSIONS AS STATION F57C-R. THE CITIES OF PASADENA AND SOUTH PASADENA DIVERT FLOW FROM ARROYO SECO.

RECORDS AVAILABLE: AT STATION F34-R, MARCH 1938 TO APRIL 11, 1938; (FOR PREVIOUS RECORDS, SEE STATE OF CALIFORNIA WATER RIGHTS BULLETIN NO. 5); STATION F34B-R, APRIL 11, 1938 TO NOVEMBER 3, 1949; STATION 34C-R, NOVEMBER 4, 1949 TO DECEMBER 11, 1956 AND STATION F34D-R, DECEMBER 11, 1956, TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 37,400 SECOND-FEET MARCH 8.
MINIMUM: 13. SECOND-FEET OCTOBER 7.

1968-69
MAXIMUM: 57,980. SECOND-FEET JANUARY 25.
MINIMUM: 8.9 SECOND-FEET DECEMBER 23.

1928-69
MAXIMUM: 79,000 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM: NO FLOW AT VARIOUS TIMES PRIOR TO 1940.

ACCURACY: FAIR.

OPERATION: CONSTRUCTION BY THE UNITED STATES CORPS OF ENGINEERS. LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES CORPS OF ENGINEERS AND THE UNITED STATES GEOLOGICAL SURVEY.

T6DTCM Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F34D-R

Daily discharge, in second-feet of LOS ANGELES RIVER below Firestone Boulevard, for the year ending September 30, 19 68

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.2	15.9	188	27	54	40	605	21	30	21	20	15.9
2	18.4	17.5	66	26	37	35	332	21	26	25	21	15.9
3	14.4	13.4	51	30	31	30	43	23	30	25	20	17.5
4	14.4	18.4	45	26	32	29	24	19.3	31	23	19.3	18.4
5	14.4	17.5	36	27	29	30	23	19.3	30	21	21	19.3
6	13.7	18.4	35	29	28	77	22	24	28	23	24	18.4
7	13.0	20	47	26	28	1,090	18.4	27	29	20	226	18.4
8	13.0	17.5	95	28	31	6,720	19.3	31	27	23	43	15.2
9	13.0	16.6	29	28	179	178	22	26	24	23	30	16.6
10	15.9	16.6	31	27	130	26	19.3	25	29	23	25	19.3
11	14.4	15.2	36	155	29	23	23	25	30	20	b 22	22
12	15.2	15.9	35	27	29	26	23	40	35	22	| 17.8	16.6
13	15.2	17.5	32	18.4	424	305	21	36	24	22	| 24	15.2
14	13.0	19.3	35	18.4	130	90	17.5	36	23	17.5	b 23	16.6
15	13.0	20	40	18.4	32	23	20	25	24	19.3	27	13.7
16	13.0	22	39	20	21	34	22	29	18.4	23	25	15.9
17	13.0	22	35	19.3	120	111	20	29	18.4	23	22	18.4
18	13.7	19.3	1,810	16.6	63	31	21	24	21	22	21	19.3
19	15.2	4,300	449	17.5	28	29	19.3	21	22	21	20	19.3
20	17.5	1,990	93	16.6	26	25	19.3	21	22	23	22	20
21	15.2	3,410	50	15.9	28	26	18.4	22	23	20	24	18.4
22	13.7	2,570	b 34	21	28	28	23	20	24	20	35	15.9
23	14.4	125	| 40	21	28	24	34	19.3	22	23	31	15.9
24	22	79	| 40	23	20	20	24	20	23	23	29	16.6
25	22	39	38	27	19.3	19.3	31	20	22	22	24	19.3
26	16.6	34	| 40	38	35	24	22	21	23	22	23	19.3
27	17.5	34	| 59	619	35	22	15.2	30	26	19.3	17.5	19.3
28	17.5	45	b 41	181	27	22	13.7	36	26	28	21	19.3
29	15.9	35	40	34	28	21	15.9	28	27	18.4	20	15.2
30	15.9	1,520	35	28		23	20	24	20	19.3	22	16.6
31	16.6		30	335		19.3		27		19.3	19.3	
	475.9	20,200	3,674	1,944.1	1,730.3	9,200.6	1,551.3	789.9	757.8	673.1	938.9	527.7
MEAN	15.4	674.	118.	62.7	59.7	297.	51.7	25.5	25.3	21.7	30.3	17.6
ACRE-FEET	944.	40,080.	7,290.	3,860.	3,430.	18,250.	3,080.	1,570.	1,500.	1,330.	1,860.	1,050.

Remarks:

YEAR OR PERIOD MEAN 116.0
ACRE-FEET 84,240.

7437-M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

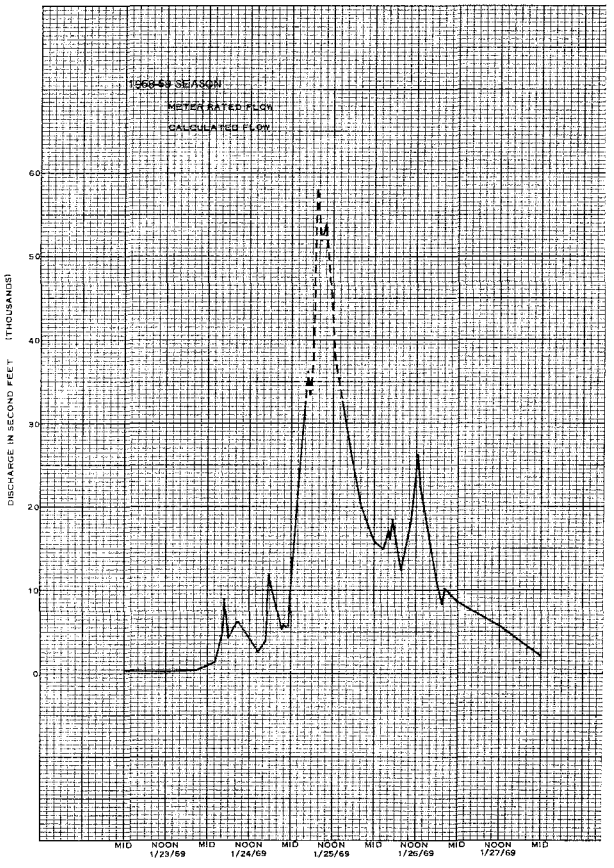
Sta. No. F34D-R

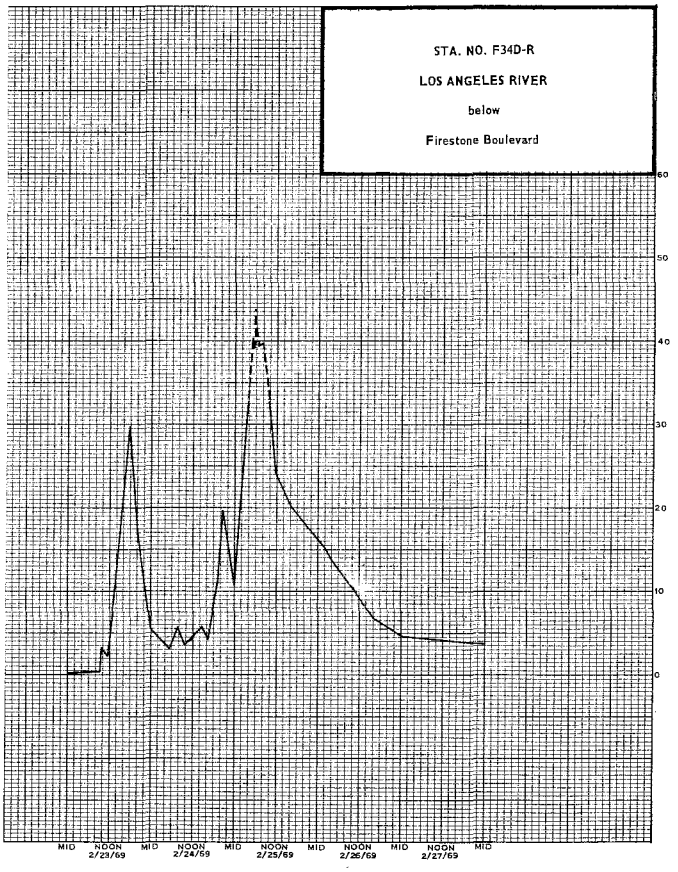
Daily discharge, in second-feet of LOS ANGELES RIVER below Firestone Boulevard, for the year ending September 30, 19 69

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18.4	15.9	13.7	12.3	260	2,600	75	55	40	b 60	45	26
2	19.3	17.5	14.4	12.3	248	1,720	91	48	50	68	45	32
3	64	18.4	15.9	14.4	260	1,250	320	42	50	68	34	36
4	21	19.3	15.9	12.3	228	630	79	74	71	70	34	35
5	15.9	19.3	17.4	13	1,460	645	577	80	75	67	37	32
6	13.7	15.9	17.4	14.4	6,830	894	317	51	75	69	50	31
7	15.2	16.6	15.2	17.4	1,640	1,020	86	48	74	72	36	27
8	16.6	16.6	14.4	16.6	1,180	685	88	48	53	70	40	31
9	14.4	15.2	19.2	16.6	888	630	101	50	b 61	90	36	37
10	15.2	13.7	34	18.3	b 810	936	88	48	70	105	37	36
11	15.9	15.9	160	17.4	b 350	372	132	42	70	120	39	36
12	15.2	17.5	32	16.6	b 400	451	131	50	74	250	36	37
13	13	14.4	17.4	306	425	365	134	50	74	90	34	34
14	95	16.6	15.9	1,990	275	260	137	50	66	94	37	30
15	83	274	24	58	1,320	298	114	53	61	102	42	34
16	18.4	83	196	28	b1,000	293	157	53	62	102	40	35
17	17.5	24	42	22	b 600	293	204	55	120	105	34	36
18	15.9	19.3	20	400	676	233	114	50	68	105	43	34
19	16.6	20	16.6	2,970	b 700	94	101	50	63	90	40	31
20	15.2	20	23	6,880	277	132	119	50	63	85	42	28
21	15.9	19.3	13.7	9,790	152	1,270	116	48	70	88	42	24
22	19.3	18.4	12.3	2,010	1,670	338	112	73	60	110	31	29
23	17.5	17.5	12.3	279	8,700	298	112	64	65	b 95	31	32
24	17.5	16.6	13	5,220	6,600	269	64	84	61	69	28	30
25	16.6	14.4	437	31,830	23,700	248	60	64	60	60	31	29
26	24	16.6	340	15,480	9,500	193	53	82	62	39	35	29
27	23	14.4	54	5,170	3,870	86	58	69	59	37	30	28
28	27	13.7	26	2,620	4,150	77	51	73	56	36	31	25
29	27	12.3	19.2	1,180		73	45	62	53	43	30	27
30	189	13.7	15.2	279		64	45	45	b 55	42	31	31
31	35		16.6	293		67		64		42	25	
	931.2	830	1,683.7	86,986.6	78,169	16,784	3,881	1,775	1,941	2,543	1,126	941
MEAN	30.0	27.7	54.3	2,810.	2,790.	541.	129.	57.3	64.7	82.0	36.3	31.4
ACRE-FEET	1,850.	1,650.	3,340.	172,500.	155,000.	33,290.	7,700.	3,520.	3,850.	5,040.	2,230.	1,870.

Remarks:

YEAR OR PERIOD MEAN 541.
ACRE-FEET 391,800.





STATION F319-R

LOS ANGELES RIVER below Wardlow Road

LOCATION: LAT. 33°49'02", LONG. 118°12'20", ON THE RIGHT (WEST) BANK, 900 FEET BELOW WARDLOW ROAD BRIDGE, LONG BEACH. ELEVATION OF ZERO GAGE HEIGHT 11.91 FEET.

DRAINAGE AREA: 815 SQUARE MILES (EXCLUDES AREA ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: CHANNEL - TRAPEZOIDAL, CONCRETE, 352. FEET WIDE AT BOTTOM WITH 2.25:1 SIDE SLOPES; 0.5 INVERTED BOTTOM TO LOW FLOW CHANNEL 28 FEET WIDE BY ONE FOOT DEEP IN CENTER OF CHANNEL.
CONTROL - CHANNEL FORMS CONTROL.

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

RECORDER: A CONTINUOUS RECORDER AND SERVO-MANOMETER WERE IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - FLOW IS SUBJECT TO THE SAME REGULATION AS STATIONS F34D-R AND 45B-R.
DIVERSION - FLOWS DIVERTED TO DOMINGUEZ GAP SPREADING GROUNDS.

RECORDS AVAILABLE: AT STATION F319-R, JANUARY 13, 1956, TO SEPTEMBER 30, 1969; AT STATION F180-R, OCTOBER 31, 1931, TO JANUARY 13, 1956. PRIOR TO 1931 SEE STATION F36-R.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 48,900. SECOND-FEET MARCH 8.
MINIMUM: 18.2 SECOND-FEET OCTOBER 9.

1968-69
MAXIMUM: 101,700. SECOND-FEET JANUARY 25.
MINIMUM: 16.2 SECOND-FEET DECEMBER 23.

1931-69
MAXIMUM: 101,700. SECOND-FEET JANUARY 25, 1969.
MAXIMUM: 99,000. SECOND FEET ESTIMATED MARCH 2. 1938.
MINIMUM: NO FLOW AT TIMES, 1930-31 AND 1933-34.

ACCURACY: GOOD.

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

760714M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F319-R

Daily discharge, in second-feet of LOS ANGELES RIVER below Wardlow Road, for the year ending September 30, 19 68

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	29	298	32	83	44	365	31	30	24	30	22
2	30	29	68	31	40	43	708	31	25	30	31	198
3	31	30	63	39	34	35	49	34	29	31	30	24
4	28	30	63	35	38	34	32	30	38	29	26	26
5	25	28	54	34	34	38	27	24	34	30	24	27
6	21	28	57	37	36	83	23	30	34	30	33	26
7	22	33	50	34	37	1,310	22	34	32	26	320	30
8	19.8	31	148	33	47	13,210	23	37	26	29	82	24
9	18.2	28	40	35	266	327	30	33	21	33	50	24
10	26	29	36	32	282	56	28	34	22	33	39	33
11	27	26	37	250	41	57	32	32	26	31	29	38
12	29	25	40	61	36	62	32	32	32	33	27	36
13	28	24	36	34	519	565	30	52	31	33	33	28
14	24	28	35	29	381	212	24	43	27	27	32	29
15	20	27	41	27	49	48	24	32	28	26	30	23
16	19.8	26	42	30	38	50	33	35	21	31	31	24
17	21	26	41	30	174	166	32	37	22	30	30	28
18	23	23	3,410	27	102	42	31	34	26	30	25	29
19	25	4,760	856	30	43	48	30	29	27	26	25	27
20	28	2,230	147	26	34	39	29	30	26	26	30	29
21	25	13,630	60	24	34	35	27	35	29	24	31	29
22	21	3,120	43	28	37	33	29	32	32	21	41	23
23	21	176	48	38	36	27	40	30	30	26	42	24
24	32	81	47	38	34	24	36	32	30	27	42	24
25	32	49	47	39	31	23	40	33	34	28	37	27
26	28	39	49	42	41	32	49	33	35	29	35	28
27	26	42	68	807	47	33	29	38	32	28	27	30
28	29	84	50	454	48	32	23	45	31	65	30	28
29	26	48	44	56	36	31	24	39	30	27	30	20
30	24	1,840	39	42		32	30	30	25	30	34	22
31	28		34	510		30		28		30	28	
	788.8	26,599	6,091	2,964	2,658	16,801	2,431	1,049	865	923	1,334	801.8
MEAN	25.4	887.	196.	95.6	91.7	542.	81.0	33.8	28.8	29.8	43.0	26.7
ACRE-FEET	1,560.	52,760.	12,080.	5,880.	5,470.	33,320.	4,820.	2,080.	1,720.	1,830.	2,650.	1,590.

Remarks:

YEAR OR PERIOD MEAN 173.
ACRE-FEET 125,790.

7-D71-M Gib 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

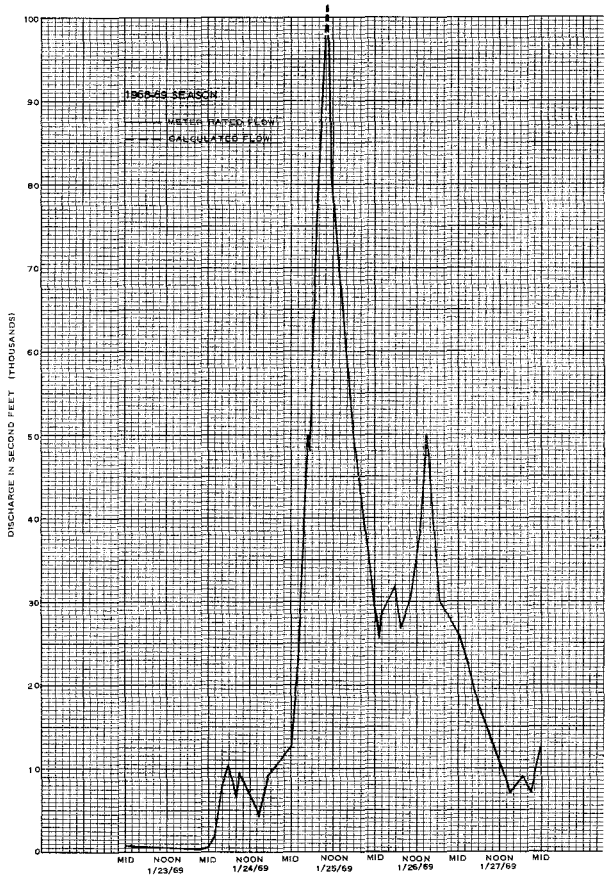
Sta. No. F319-R

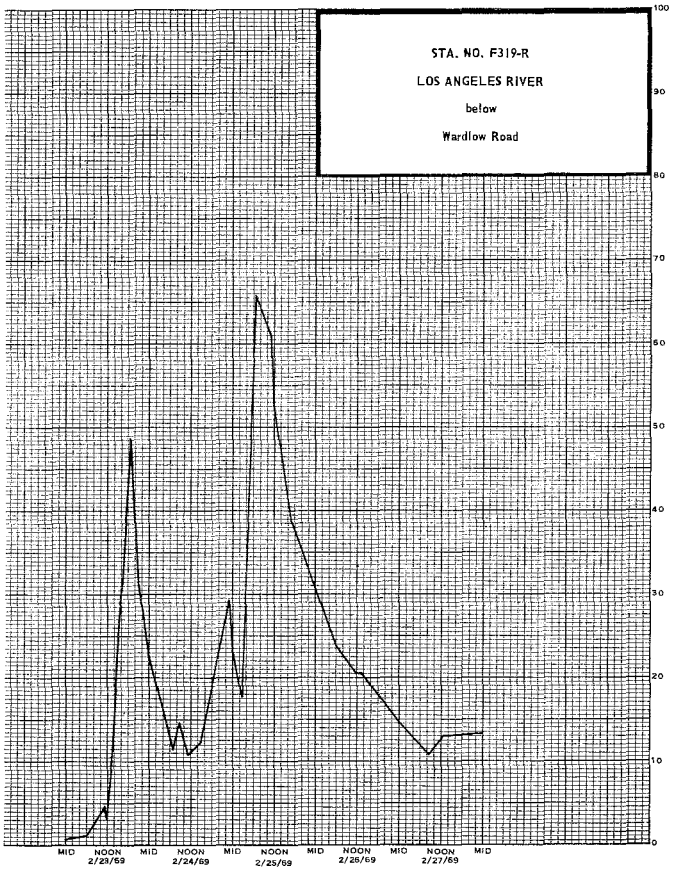
Daily discharge, in second-feet of LOS ANGELES RIVER below Wardlow Road for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	29	16.8	24	411	5,920	81	62	50	76	53	36
2	27	25	18.2	22	346	2,460	85	63	63	81	48	39
3	231	26	22	27	372	1,670	781	56	74	79	42	48
4	32	39	22	25	311	904	118	56	70	81	49	47
5	26	34	24	25	1,970	831	838	105	88	77	45	48
6	22	27	24	26	12,630	1,040	514	60	88	81	57	50
7	24	25	22	29	4,530	1,380	96	56	94	85	47	40
8	30	24	19.	26	10,890	980	105	56	81	83	49	43
9	25	21	19.7	25	6,130	885	315	54	83	120	49	47
10	25	19	27	27	3,530	1,670	237	52	90	118	45	a 46
11	26	19.8	250	25	557	640	252	47	85	134	47	46
12	24	24	54	24	904	825	266	50	94	320	53	47
13	20	19	24	511	942	761	284	58	94	103	49	44
14	87	22	17.5	2,890	553	424	284	52	85	108	54	40
15	136	4.92	24	91	3,130	504	333	54	72	129	50	44
16	28	155	317	40	2,160	530	462	57	74	123	47	45
17	25	32	83	37	925	514	388	57	154	123	40	46
18	24	26	29	624	6,120	481	372	57	88	123	47	a 44
19	26	30	25	4,420	1,450	126	346	50	86	108	50	42
20	23	29	51	12,620	2,210	152	271	56	83	97	45	38
21	20	26	20	12,070	754	2,280	210	53	103	99	54	30
22	28	26	17.5	2,860	4,520	668	138	77	86	126	44	34
23	26	24	16.2	406	15,320	482	120	63	92	112	43	38
24	26	20	18.2	7,580	15,620	411	89	90	90	81	35	39
25	28	18.2	850	54,250	40,820	359	64	88	85	68	37	40
26	32	21	835	32,030	21,690	239	63	90	81	52	45	38
27	29	20	87	13,500	12,650	124	56	94	79	47	41	38
28	30	19.8	38	12,430	13,160	92	57	86	76	47	43	34
29	29	18.2	42	2,220		86	58	79	68	58	45	33
30	292	18.2	29	600		74	57	74	70	56	49	43
31	164		27	513		70		56		53	38	
	1,591	30,691			180,105	7,340		2,526		1,440		
		1,329.2		160,597		27,577		2,008		3,048		1,247
MEAN	51.3	44.3	990.	5,180.	6,430.	890.	245.	64.8	84.2	98.3	46.5	41.6
ACRE-FEET	3,160.	2,640.	60,870.	318,500.	357,200.	54,700.	14,560.	3,980.	5,010.	6,050.	2,860.	2,470.

Remarks:

YEAR OR PERIOD MEAN 1,150.
ACRE-FEET 832,000.





STATION F279C-R

LOS CERRITOS CHANNEL at Stearns Street

LOCATION: LAT. 33°47'46", LONG. 118°06'10", ON THE RIGHT (WEST) BANK, UPSTREAM OF STEARNS STREET BRIDGE, LONG BEACH. ELEVATION OF ZERO GAGE HEIGHT 4.37 FEET.

DRAINAGE AREA: 36.2 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - TRAPEZOIDAL CONCRETE, 122 FEET WIDE AT TOP, 80 FEET AT BOTTOM AND 10 FEET DEEP.
CONTROL: FORMED BY CHANNEL.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING; HIGH FLOWS FROM STEARNS STREET BRIDGE.

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: NONE.

RECORDS AVAILABLE: OCTOBER 26, 1955 TO SEPTEMBER 30, 1969; JUNE 1, 1949 TO MAY 26, 1955 AT ATHERTON STREET; WATER SURFACE RECORDS ONLY, NOVEMBER 23, 1942 TO JUNE 1, 1949 AT SEVENTH STREET.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 5,160 SECOND-FEET NOVEMBER 21.
MINIMUM: 0.2 SECOND-FOOT SEPTEMBER 1.

1968-69
MAXIMUM: 5,580. SECOND-FEET JANUARY 20.
MINIMUM: 0.2 SECOND-FOOT AT VARIOUS TIMES.

1949-69
MAXIMUM: 5,580. SECOND-FEET JANUARY 20, 1969.
MINIMUM: NO FLOW PARTS OF SOME YEARS.

ACCURACY: GOOD.

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

FADT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F279C-R

Daily discharge, in second-feet of LOS CERRITOS CHANNEL at Stearns Street, for the year ending September 30, 19 68

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.7	3.0	1.2	2.6	1.3	64	1.9	1.9	1.0	1.3	0.2
2	1.3	1.7	1.3	1.2	2.1	1.0	17.6	1.7	1.7	1.2	1.5	0.6
3	1.2	1.5	1.0	1.2	1.2	1.2	1.3	1.5	2.1	1.2	1.5	0.6
4	1.2	1.5	1.0	1.5	1.3	1.0	1.0	1.5	1.5	1.2	2.1	1.3
5	1.2	1.5	1.3	1.9	1.2	1.3	1.0	1.5	1.7	1.3	2.6	1.3
6	1.2	2.6	1.7	1.9	1.9	1.5	1.0	1.5	1.3	2.1	4.0	1.9
7	1.2	1.5	14.0	1.9	1.0	376	1.0	1.7	1.7	1.2	6.8	1.9
8	1.0	1.5	9.9	1.7	1.0	270	1.2	2.1	3.5	1.7	2.6	1.7
9	1.2	1.5	0.8	1.5	4.9	4.9	1.2	1.9	1.9	1.9	3.0	1.9
10	1.2	1.5	0.6	1.5	1.5	1.7	1.2	2.1	1.7	1.9	2.6	2.1
11	1.3	1.5	0.8	18.9	0.8	1.2	1.5	1.7	3.0	1.7	1.7	1.5
12	1.3	1.5	0.8	1.0	1.0	1.2	1.5	1.9	3.0	1.5	1.7	1.5
13	1.2	1.5	0.6	0.8	33	17.4	1.3	1.7	2.1	1.3	1.7	1.3
14	1.7	1.7	0.4	0.6	4.4	2.1	1.3	1.9	4.4	1.7	1.7	1.2
15	1.7	1.5	0.8	0.8	1.0	1.0	1.3	1.9	4.4	1.7	1.7	1.3
16	1.0	1.5	1.0	1.2	1.2	1.2	1.3	2.6	4.0	1.9	1.7	1.3
17	1.7	1.5	1.2	1.0	10.4	4.0	1.3	2.6	4.9	1.9	1.7	1.3
18	1.7	1.5	101	1.0	1.7	1.0	1.3	2.1	4.9	1.5	1.5	1.3
19	1.3	149	90	1.2	0.8	1.0	1.5	1.9	4.4	1.7	1.3	1.7
20	1.9	84	2.1	1.2	1.2	1.0	1.5	1.9	4.4	1.5	1.2	1.3
21	1.9	984	1.2	0.8	1.2	1.0	1.5	1.7	4.4	1.7	1.2	1.5
22	1.7	18.6	1.0	1.0	1.2	1.0	1.3	1.5	4.0	1.7	1.0	1.7
23	1.5	3.0	1.2	1.0	1.2	1.0	1.2	1.3	3.5	1.9	0.6	1.5
24	1.5	1.0	1.0	1.2	1.2	1.0	1.5	1.5	4.0	2.1	0.8	1.5
25	1.7	1.5	1.0	1.3	1.3	1.2	1.9	1.3	3.5	1.7	0.8	1.3
26	1.7	1.2	1.3	1.3	1.3	1.3	1.7	1.3	2.6	1.7	0.8	1.2
27	1.9	1.0	1.3	42	4.0	1.5	1.9	1.5	3.0	1.7	0.8	1.5
28	1.3	3.0	1.2	4.0	5.9	1.5	1.7	1.7	3.0	2.1	1.2	1.5
29	1.5	1.0	1.2	4.9	1.3	1.5	1.9	1.3	1.9	2.1	1.2	1.5
30	1.3	132	1.2	3.5		1.5	1.9	1.7	1.2	2.1	1.0	1.7
31	1.3		1.2	19.6		1.5		1.9		1.9	0.6	
	43.8	1,408.0	246.1	123.8	92.8	705.0	120.8	54.3	89.6	51.8	53.9	42.1
MEAN	1.41	46.9	7.93	3.99	3.20	22.7	4.03	1.75	2.99	1.67	1.74	1.39
ACRE-FEET	87.	2,790.	488.	246.	184.	1,400.	240.	108.	177.	103.	107.	83.

Remarks:

YEAR OR PERIOD MEAN 8.28
ACRE-FEET 6,020.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

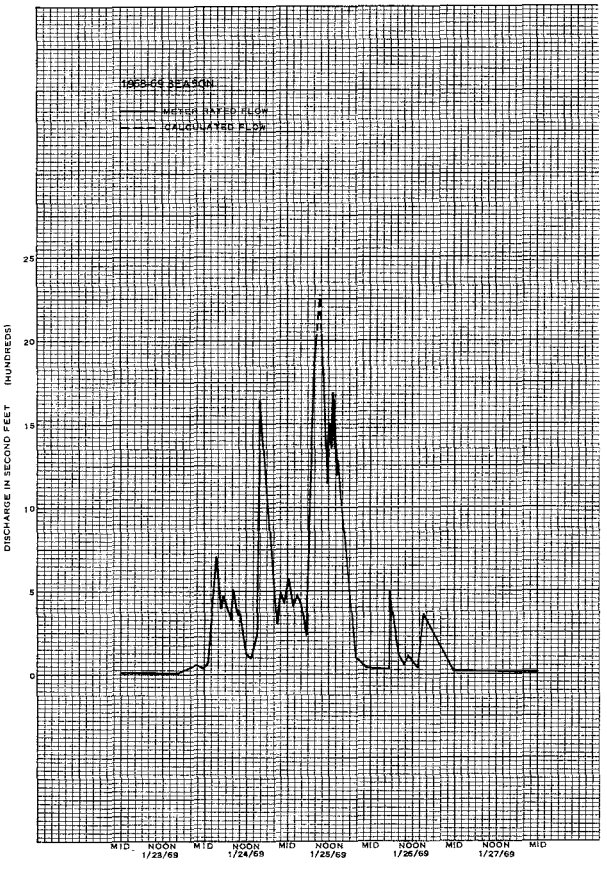
Sta. No. F279C-R

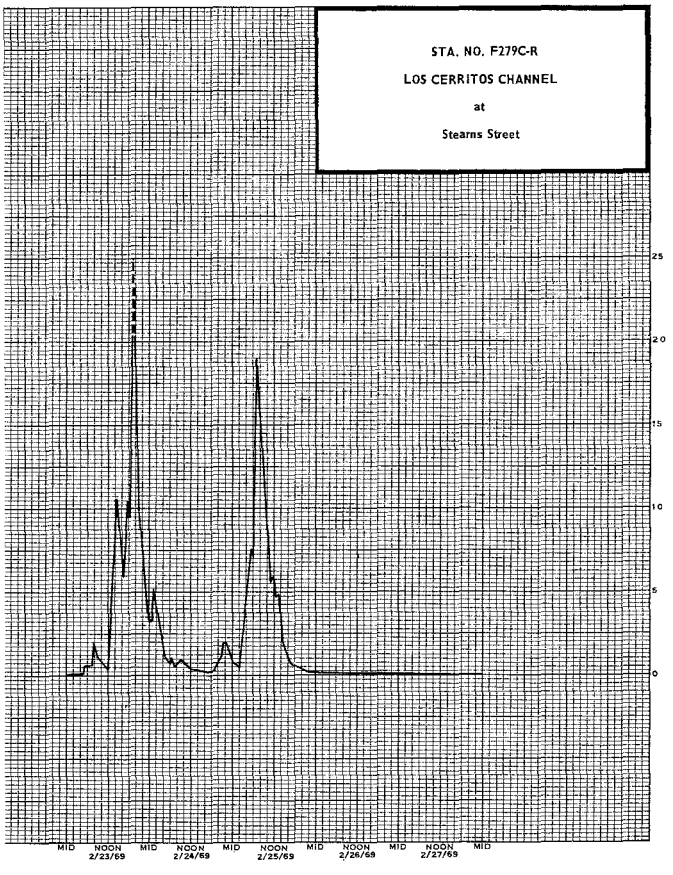
Daily discharge, in second-feet of LOS CERRITOS CHANNEL at Stearns Street, for the year ending September 30, 19 69

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	1.5	1.0	0.6	1.0	4.0	0.4	1.3	1.7	1.7	2.1	1.2
2	1.0	1.3	1.2	0.8	0.8	1.3	7.3	1.5	1.0	1.7	2.1	1.3
3	1.2	1.3	0.8	0.8	1.0	1.3	34	1.3	1.0	2.1	1.7	1.7
4	1.2	4.9	1.2	0.8	0.8	1.3	1.3	1.2	1.0	2.1	1.9	2.1
5	1.5	1.3	1.3	0.8	42	1.3	29	1.5	1.2	1.9	1.5	1.9
6	1.7	1.3	1.3	0.8	214	3.5	4.0	1.5	1.2	2.1	1.9	1.9
7	1.2	1.3	1.3	1.0	2.6	0.8	0.8	1.3	1.3	2.6	1.0	1.5
8	1.3	1.0	1.2	0.8	1.2	0.2	1.0	1.3	1.3	2.6	1.0	1.8
9	1.3	1.2	1.2	0.8	1.0	0.4	1.0	1.3	1.3	1.7	1.9	1.9
10	1.5	1.3	1.5	0.8	0.8	13.4	1.0	1.3	1.3	1.9	1.7	1.9
11	1.7	1.5	31	1.0	0.8	1.0	1.0	1.5	1.0	2.6	1.9	1.9
12	1.7	1.2	0.6	1.0	0.8	0.8	1.0	1.5	1.0	1.9	1.9	1.7
13	1.7	1.2	0.6	111	0.4	32	1.0	1.5	1.2	0.6	1.7	1.7
14	7.6	1.0	0.6	150	1.0	1.2	1.0	1.5	1.0	0.4	1.9	1.7
15	1.3	45	1.0	1.7	48	0.6	1.0	1.5	1.2	0.4	1.9	1.5
16	0.4	2.6	8.4	1.2	3.0	0.4	1.0	1.7	1.2	0.4	2.1	1.7
17	0.8	0.4	0.8	1.2	1.0	0.4	1.0	1.9	1.2	0.4	2.1	1.7
18	1.3	0.6	0.4	80	75	0.2	1.0	1.9	1.3	0.4	1.9	1.9
19	1.3	1.0	0.8	179	36	0.4	1.0	1.7	1.0	0.2	1.5	1.5
20	1.3	0.8	12.8	1,129	1.5	0.4	1.0	1.7	1.2	0.4	1.3	1.3
21	1.7	1.0	0.8	233	18.0	52	1.0	1.7	1.2	0.2	1.7	1.3
22	1.7	1.3	0.2	37	161	2.6	1.0	1.5	1.2	0.4	1.3	1.3
23	1.7	1.3	0.6	8.2	463	0.6	1.0	1.5	1.0	1.3	1.3	1.3
24	1.7	1.0	0.8	423	113	0.2	1.0	1.5	0.8	1.2	1.5	1.3
25	2.1	1.0	222	733	352	0.4	1.2	1.5	0.8	0.8	1.5	1.2
26	2.1	0.8	66	108	6.8	0.8	1.5	1.5	0.8	0.8	1.3	1.2
27	2.1	1.3	1.5	6.8	4.0	0.8	1.5	1.3	1.2	1.0	1.5	1.3
28	2.1	1.0	1.0	37	6.3	1.5	1.2	1.3	1.2	0.8	1.5	1.3
29	2.1	0.8	4.9	4.9		0.8	1.3	1.2	2.1	1.5	1.3	1.5
30	15.0	1.2	1.3	1.5		0.6	1.3	1.2	1.7	2.1	1.5	1.5
31	1.7		1.0	1.2		0.6		1.2		2.1	1.3	
	66.7	82.4	369.1	3347.7	1,556.8	125.8	101.8	45.3	35.6	40.3	52.1	47.0
MEAN	2.15	2.75	11.9	108.	55.6	40.6	3.39	1.46	1.19	1.30	1.68	1.57
ACRE-FEET	132.	163.	732.	6,640.	3,090.	250.	202.	90.	71.	80.	103.	93.

Remarks:

YEAR OR PERIOD MEAN 16.1
ACRE-FEET 11,650.





STATION F130-R

MALIBU CREEK below Cold Creek

LOCATION: LAT. 34°04'40", LONG. 118°42'03", ON THE RIGHT (WEST) BANK, 0.2± MILE DOWNSTREAM OF COLD CREEK AND SIX MILES SOUTHWEST OF CALABASAS. ELEVATION OF ZERO GAGE HEIGHT 432.82 FEET.

DRAINAGE AREA: 103. SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - COARSE SAND AND GRAVEL, LINED WITH TREES AND BRUSH.
CONTROL: CONCRETE STABILIZER INSTALLED JULY 1964.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING; HIGH FLOWS FROM CABLE CAR.

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1957 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - LAKE SHERWOOD DAM, LAKE ELEANOR DAM, MALIBU LAKE MOUNTAIN CLUB DAM, AND CRAIG'S DAM. OTHER SMALL RECREATIONAL DAMS AFFECT LOW SUMMER FLOWS.

RECORDS AVAILABLE: JANUARY 17, 1931 TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 3830. SECOND-FEET MARCH 8.
MINIMUM: 1.0 SECOND-FOOT AT VARIOUS TIMES.

1968-69
MAXIMUM: 33,760. SECOND-FEET JANUARY 25.
MINIMUM: 1.3 SECOND-FEET AT VARIOUS TIMES IN OCTOBER.

1931-69
MAXIMUM: 33,760. SECOND-FEET JANUARY 25, 1969.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD, 1967-68; FAIR, 1968-69.

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

REMARKS: CABLEWAY WASHED OUT ON JANUARY 25, 1969.

76D74M Cib 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F130-R

Daily discharge, in second-feet of MALIBU CREEK below Cold Creek, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	1.3	47	18	5.9	4.3	19	4.1	3.8	2.3	1.7	1.2
2	1.8	1.4	35	19	5.6	4.1	27	4.5	4.1	2.3	1.8	1.2
3	1.7	1.4	31	48	5.6	4.5	20	4.3	3.9	2.1	1.6	1.2
4	1.8	1.3	30	18	5.2	4.8	19	4.7	3.6	2.3	1.7	1.2
5	1.8	1.3	28	25	5.2	4.3	14	4.3	3.1	2.9	1.6	1.3
6	1.7	1.3	28	25	5.2	4.1	11	3.8	3.1	2.4	2.0	1.2
7	1.6	1.2	27	15	5.2	53	11	4.1	3.2	2.4	1.4	1.2
8	1.3	1.1	26	12	5.2	1350	9.3	4.5	3.1	2.1	1.3	1.3
9	1.3	1.2	19	13	5.0	198	8.5	4.1	3.1	2.0	1.4	1.4
10	1.3	1.2	14	9.3	5.6	87	9.3	4.1	2.9	1.8	1.3	1.3
11	1.6	1.3	14	17	6.1	58	7.8	4.3	2.9	1.7	1.4	1.4
12	1.7	1.4	14	19	6.3	43	6.7	4.5	2.9	1.4	1.6	1.4
13	1.6	1.7	13	19	7.0	54	6.7	4.1	3.1	1.6	1.6	1.6
14	1.6	1.6	12	19	6.7	59	6.5	4.1	3.1	1.7	1.4	1.8
15	1.6	1.7	12	18	14	43	6.7	3.9	2.9	1.6	1.3	2.1
16	1.4	1.4	12	14	34	33	7.2	4.3	2.8	1.6	1.4	1.8
17	1.4	1.4	12	14	8.9	34	7.4	4.5	2.6	1.4	1.4	2.1
18	1.3	1.7	109	14	5.3	31	7.0	4.1	2.6	1.6	1.4	1.7
19	1.3	71	54	12	6.1	28	6.5	4.5	2.4	1.7	1.3	2.0
20	1.1	278	35	7.0	6.1	25	6.5	4.8	2.6	1.6	1.3	1.8
21	1.1	980	28	6.1	5.6	21	7.4	5.0	2.4	1.3	1.2	1.7
22	1.2	588	28	5.9	5.4	19	6.7	4.8	2.4	1.4	1.2	1.4
23	1.2	89	27	5.9	5.0	19	6.1	5.0	3.1	1.4	1.1	1.4
24	1.2	38	22	5.4	4.8	19	5.6	4.8	2.6	1.6	1.1	1.2
25	1.2	26	20	6.7	4.8	19	5.0	4.5	2.6	1.6	1.2	1.2
26	1.2	27	20	12	4.7	19	4.7	4.3	2.4	1.6	1.1	1.1
27	1.3	29	19	43	4.3	17	5.0	4.3	2.6	1.4	1.1	1.2
28	1.3	28	24	37	4.1	14	4.7	4.3	2.3	1.2	1.0	1.3
29	1.3	24	15	7.8	4.5	14	4.5	4.1	2.3	1.0	1.0	1.4
30	1.3	75	19	6.3		14	3.9	4.1	2.4	1.0	1.2	1.4
31	1.3		18	6.5		13		3.9		1.3	1.2	
	44.3	2277.9	812	497.9	198.4	2310.1	270.7	134.7	86.9	53.3	42.3	43.5
MEAN	1.43	75.9	26.0	16.1	6.84	74.5	9.02	4.35	2.90	1.72	1.36	1.45
ACRE-FEET	88.	4,520.	1,610.	988.	394.	4,580.	537.	267.	172.	106.	84.	86.

Remarks:

YEAR OR PERIOD MEAN 18.5
ACRE-FEET 13,430.

7601M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

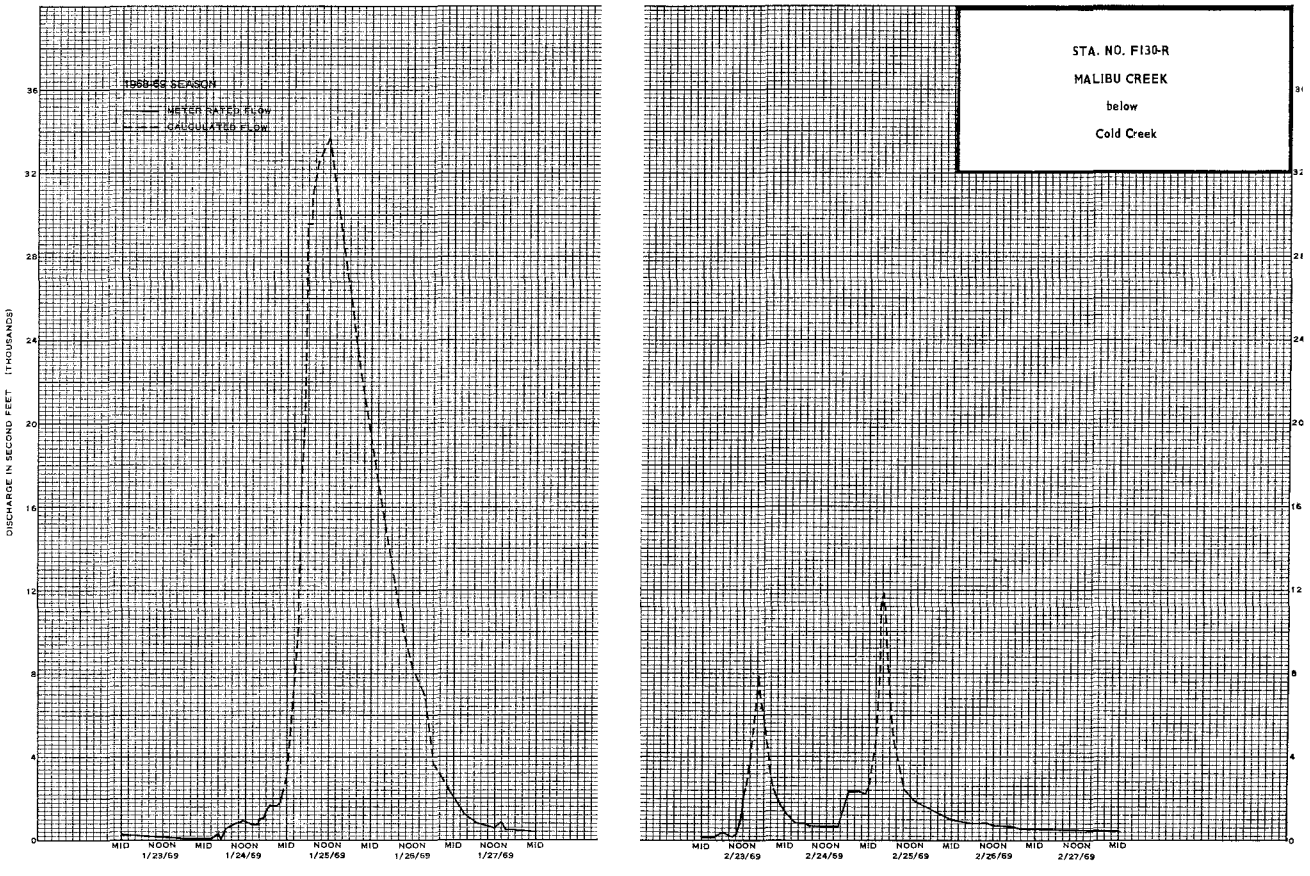
Sta. No. F130-R

Daily discharge, in second-feet of MALIBU CREEK below Cold Creek, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	2.1	2.4	4.6	121	369	44	23	12	7.4	4.0	3.6
2	1.4	2.0	1.7	3.8	102	284	46	21	12	8.0	4.4	4.2
3	1.6	2.0	1.8	3.3	86	236	56	20	11	7.1	5.1	15
4	1.6	1.8	2.0	4.0	77	194	49	21	11	6.4	4.2	22
5	1.7	1.8	1.7	3.1	136	166	60	21	10	6.6	4.2	8.0
6	1.8	1.7	1.7	2.9	1,100	149	74	18	9.6	6.8	4.6	4.6
7	1.8	1.8	1.7	2.9	373	133	50	18	11	6.8	4.4	3.6
8	1.8	1.7	1.8	2.9	247	117	40	16	10	6.5	4.0	3.8
9	1.8	1.7	1.8	3.1	192	104	37	15	9.3	6.1	4.2	4.2
10	2.0	2.0	2.1	3.3	158	117	35	15	9.3	5.8	4.2	3.6
11	2.1	2.1	2.9	3.3	139	109	29	15	9.9	6.1	4.2	5.8
12	2.0	2.1	2.1	3.3	125	100	39	14	9.0	6.1	4.0	4.6
13	1.8	2.1	2.1	3.3	109	96	34	15	9.6	6.1	4.2	4.4
14	2.8	1.8	2.9	13	100	86	30	14	9.6	6.4	4.0	4.2
15	2.8	2.4	3.4	8.6	124	80	30	14	9.9	6.4	4.0	4.2
16	2.0	2.3	3.2	5.1	121	74	29	14	11	6.1	4.0	3.6
17	1.7	2.3	3.1	4.4	91	72	27	14	11	5.6	4.0	4.7
18	1.7	2.0	2.9	5.1	91	66	26	14	9.6	5.4	4.2	4.2
19	1.7	2.0	3.1	466	78	66	28	14	10	5.6	3.8	4.4
20	1.7	2.1	3.1	1,970	69	63	27	14	9.9	6.1	3.3	4.0
21	1.6	2.0	2.9	3,110	75	66	25	15	9.6	6.1	3.3	4.4
22	1.6	2.0	2.9	516	193	63	26	15	9.3	5.4	3.6	4.2
23	1.6	2.0	2.8	173	2,110	60	26	14	9.9	5.6	3.3	4.2
24	1.8	2.0	2.8	934	1,250	36	25	14	9.0	4.6	3.6	4.2
25	1.7	2.4	4.1	24,200	3,590	41	24	14	9.3	5.4	3.1	4.2
26	1.8	2.0	4.5	9,010	770	46	24	13	9.3	5.1	3.3	4.6
27	1.8	2.0	3.4	834	491	46	23	13	8.0	5.4	3.6	4.6
28	2.1	1.7	3.2	355	426	46	22	13	8.0	5.4	3.6	4.2
29	2.3	1.6	3.6	250		44	21	12	8.6	5.1	4.2	4.4
30	2.9	1.6	3.6	189		43	22	12	7.1	4.8	4.4	2.9
31	2.1		3.8	137		43		11		4.8	3.8	
	58.5	59.1	85.1	42,224	12,544	3,215	1,028	476	292.8	185.1	122.8	158.6
MEAN	1.89	1.97	2.75	1,360.	448.	104.	34.2	15.4	9.76	5.97	3.96	5.29
ACRE-FEET	116.	117.	169.	83,750.	24,880.	6,380.	2,040.	944.	581.	367.	244.	315.

Remarks:

YEAR OR PERIOD MEAN 166.
ACRE-FEET 119,900.



STATION F330-R

MISSION CREEK below Legg Lake

LOCATION: LAT. 34°02'09", LONG. 118°03'47", ON THE RIGHT (NORTH) BANK AT OUTLET OF LEGG LAKE ON EAST SIDE OF ROSEMEAD BOULEVARD, 1.5 MILES SOUTH OF EL MONTE. ELEVATION OF ZERO GAGE HEIGHT 204.± FEET.

DRAINAGE AREA: 3.45 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - CONCRETE BOX CULVERT.
CONTROL - THREE-FOOT CIPPOLETTI WEIR.

DISCHARGE MEASUREMENTS: MEASURED BY WADING BELOW ROSEMEAD BOULEVARD.

RECORDER: A WEEKLY RECORDER WAS IN SERVICE FROM OCTOBER 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - SOME PUMPING INTO LEGG LAKE, USED TO MAINTAIN LEVEL AND TO REPLACE EVAPORATION.
DIVERSION - NONE.

RECORDS AVAILABLE: AUGUST 8, 1956 TO SEPTEMBER 30, 1969. SOME STREAMFLOW MEASUREMENTS FROM JUNE 7, 1956.

ACCURACY: GOOD.

OPERATION: LOCATED AND CONSTRUCTED BY THE LOS ANGELES COUNTY ENGINEER'S DEPARTMENT. OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

T6D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F330-R

Daily discharge, in second-feet of MISSION CREEK below Legg Lake, for the year ending September 30, 19 68

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.0	+	5.3	3.0	3.6	3.2	4.2	2.2	1.2	0.5	0.5	0.4
2	5.9		3.2	3.0	3.4	3.0	6.3	2.1	1.3	0.5	0.6	0.4
3	5.8		2.6	3.0	3.5	2.7	4.7	2.0	1.1	0.5	0.5	0.4
4	5.7		2.3	2.8	3.5	1.9	4.0	2.0	1.0	0.4	0.5	0.4
5	5.5		2.2	2.8	3.2	3.2	3.8	2.0	1.0	0.2	a 0.4	0.4
6	5.5		2.2	2.8	3.4	3.0	3.7	2.0	1.0	0.2	a 0.4	0.3
7	5.5		2.3	2.8	3.4	3.9	3.6	2.0	1.1	0.2	a 0.6	0.3
8	5.4		2.3	2.8	3.4	20	3.5	1.9	1.2	0.2	0.6	0.6
9	4.2		2.1	3.0	3.9	12.5	3.2	2.0	1.3	0.2	0.6	0.3
10	4.4		2.2	3.0	3.8	8.3	3.0	2.0	1.3	0.7	0.7	0.3
11	6.6		2.3	3.2	3.5	5.9	3.0	2.1	1.3	0.8	0.7	0.3
12	8.6		2.4	3.0	3.7	5	3.0	2.2	1.0	0.7	0.7	0.4
13	6.8		2.3	3.0	3.9	4.9	2.8	2.3	0.8	0.6	0.7	0.4
14	5.9		2.4	3.0	4.1	4.8	3.0	2.2	0.8	0.4	0.6	0.4
15	5.0		2.4	3.0	3.9	4.5	3.0	2.1	0.8	0.2	0.6	0.4
16	4.2		2.4	3.0	3.7	4.5	3.0	2.0	0.7	0.2	0.6	0.3
17	3.2		2.4	3.0	3.8	4.6	3.0	1.9	0.7	0.2	0.5	0.3
18	2.8		7.1	2.8	3.8	4.5	3.0	1.9	0.8	0.5	0.5	0.3
19	2.5		9.4	2.8	3.8	4.2	2.8	1.8	0.7	0.7	0.5	0.8
20	1.9	+	5.7	2.8	3.8	4.0	2.8	1.8	0.6	0.7	0.5	1.0
21	0.7	3.2	4.0	2.8	3.7	3.9	2.8	1.7	0.5	0.4	0.5	1.0
22	0.3	7.2	3.5	2.8	3.6	3.8	2.8	1.7	0.5	0.9	0.5	1.0
23	0.2	3.0	3.2	2.8	3.5	3.8	2.6	1.7	0.4	1.0	0.5	1.0
24	+	1.9	3.0	2.8	3.7	3.8	2.6	1.7	0.3	0.8	0.4	1.0
25	+	1.5	3.0	3.0	3.4	3.8	2.6	1.5	0.3	0.7	0.4	1.0
26	0.2	1.3	3.2	3.0	3.2	3.7	2.5	1.4	0.3	0.6	0.4	1.0
27	0.1	1.3	3.2	3.4	3.2	3.5	2.4	1.3	0.3	0.6	0.4	1.0
28	0.1	1.5	3.0	3.9	3.2	3.4	2.3	1.1	0.3	0.6	0.4	1.0
29	0.1	1.5	3.0	3.5	3.2	3.0	2.3	1.0	0.4	0.5	0.4	1.0
30	0.1	5.6	3.0	3.4		3.4	2.2	1.1	0.5	0.5	0.4	1.0
31			3.0	3.8		3.4		1.1		0.6	0.4	
	103.2	28.0	100.6	93.8	103.8	148.1	94.5	55.8	23.5	15.8	16.0	18.4
MEAN	3.33	0.93	3.25	3.02	3.58	4.78	3.15	1.80	0.78	0.51	0.52	0.61
ACRE-FEET	205.	56.	200.	186.	206.	294.	187.	111.	47.	31.	32.	36.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 2.19
ACRE-FEET 1,590.

7SD74M Gib 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F330-R

Daily discharge, in second-feet of MISSION CREEK below Legg Lake, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.0	0.5	0.6	6.8	11.0	4.8	3.7	3.4	3.8	2.3	2.1
2	1.0	1.0	0.5	0.5	6.7	10.3	4.7	3.8	3.4	4.8	2.3	2.0
3	1.0	0.9	0.5	0.5	5.8	9.4	5.7	3.9	3.9	4.6	2.3	2.0
4	1.0	0.9	0.4	0.6	5.2	9.5	5.4	3.8	3.8	4.7	2.2	1.9
5	1.0	0.9	0.4	0.6	5.8	9.4	5.2	3.9	3.6	4.8	2.1	1.8
6	1.0	0.9	0.4	0.6	10.7	8.3	5.9	4.1	3.6	4.7	2.0	1.7
7	1.0	0.9	0.4	0.6	8.3	7.8	5.5	4.9	3.6	5.0	2.0	1.7
8	1.0	0.8	0.4	0.6	6.4	7.5	6.3	4.5	3.6	4.1	2.1	2.0
9	1.0	0.8	0.4	0.6	5.8	7.4	5.4	4.4	3.6	3.0	2.1	1.9
10	1.0	0.8	0.4	0.5	5.7	9.2	5.3	4.2	3.6	2.8	2.0	1.9
11	1.0	0.8	0.4	0.5	5.4	8.6	5.2	4.1	3.6	3.0	2.0	1.7
12	1.0	0.8	0.4	0.5	5.4	7.5	5.3	3.9	3.6	3.0	2.0	1.7
13	1.0	0.8	0.4	0.5	5.2	7.0	5.2	3.9	3.7	3.0	1.7	1.8
14	1.0	0.8	0.4	7.9	4.8	6.7	5.2	3.9	3.7	2.8	1.8	1.8
15	0.9	0.8	0.4	5.3	6.4	6.3	5.0	3.9	3.8	3.2	1.9	1.9
16	0.9	0.8	0.5	3.4	9.8	6.2	4.8	3.9	3.9	3.0	1.9	2.0
17	0.9	0.8	0.5	2.1	7.4	5.9	4.7	3.8	3.9	2.8	2.0	2.0
18	0.9	0.7	0.5	2.2	7.6	5.9	4.7	3.7	4.0	2.8	2.0	2.0
19	0.9	0.6	0.5	7.5	7.9	5.8	4.6	3.7	3.9	2.6	2.0	2.1
20	0.9	0.6	0.5	25.2	9.5	6.4	4.7	3.8	3.8	2.6	1.9	2.1
21	0.9	0.6	0.4	20.6	7.5	6.9	4.5	3.7	3.7	2.6	1.8	2.2
22	0.9	0.6	0.4	11.4	9.5	8.5	4.4	3.7	3.6	2.6	1.8	2.2
23	0.9	0.6	0.4	7.1	12.8	7.0	4.1	3.6	3.7	2.6	1.8	2.2
24	0.9	0.7	0.4	10.7	16.7	6.0	4.0	3.5	4.0	2.5	1.8	2.2
25	1.0	0.7	0.5	29.0	19.7	5.5	4.2	3.6	4.1	2.6	1.9	2.1
26	1.0	0.6	0.6	28.0	14.8	5.3	4.0	3.5	4.2	2.5	2.0	2.2
27	1.0	0.5	1.5	15.8	11.7	5.2	4.0	3.5	3.8	2.5	1.8	2.2
28	1.0	0.5	1.0	10.4	10.8	5.0	3.8	3.5	3.6	2.6	1.9	2.2
29	0.9	0.5	0.7	9.1		5.0	3.7	3.4	3.6	2.6	1.9	2.2
30	1.0	0.5	0.6	7.8		4.9	3.7	3.4	3.5	2.5	1.9	2.2
31	1.0		0.6	7.1		4.8		3.4		2.4	1.9	
	29.9	22.2	15.9	217.8	240.0	220.2	144.0	118.6	111.8	99.1	61.1	60.0
MEAN	0.96	0.74	0.51	7.03	8.57	7.10	4.80	3.82	3.73	3.20	1.97	2.00
ACRE-FEET	59.	44.	32.	434.	476.	437.	286.	235.	222.	197.	121.	119.

Remarks:

YEAR OR PERIOD MEAN 3.67
ACRE-FEET 2,660.

STATION F83-R

MISSION CREEK at San Gabriel Boulevard

LOCATION: LAT. 34°01'45", LONG. 118°04'06", ON THE RIGHT (WEST) UPSTREAM ABUTMENT OF SAN GABRIEL BOULEVARD BRIDGE ABOUT 2 MILES NORTHEAST OF MONTEBELLO. ELEVATION OF ZERO GAGE HEIGHT 188.20 FEET.

DRAINAGE AREA: 4.15± SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND WITH WEEDS, BRUSH AND FENCES.
CONTROL - CHANNEL FORMS CONTROL.

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

RECORDER: A WEEKLY RECORDER WAS IN SERVICE OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - PARTIALLY REGULATED BY OUTFLOW FROM LEGG LAKE.
DIVERSION - NONE.

RECORDS AVAILABLE: JUNE 14, 1930 TO SEPTEMBER 30, 1969; SOME WEEKLY STREAM FLOW MEASUREMENTS WERE TAKEN PRIOR TO INSTALLATION OF RECORDER IN 1930.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 31. SECOND-FEET ESTIMATED MARCH 8.
MINIMUM: 0.8 SECOND-FOOT OCTOBER 23.

1968-69
MAXIMUM: NOT DETERMINED DUE TO FLOODING.
MINIMUM: 2.3 SECOND-FEET AT VARIOUS TIMES.

1930-69
MAXIMUM: NOT DETERMINED MARCH 2, 1938.
MAXIMUM: 336. SECOND-FEET FEBRUARY 22, 1944.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

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

REMARKS: NEARLY ALL FLOWS ORIGINATE IN RISING WATER.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F83-R

Daily discharge, in second-feet of MISSION CREEK at San Gabriel Boulevard, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.2	1.0	8.4	6.5	7.5	6.4	7.1	5.2	3.7	2.4	1.6	1.4
2	6.1	1.1	6.5	6.5	7.5	6.3	9.6	5.0	3.7	2.7	1.5	1.4
3	5.7	1.1	5.8	6.4	7.5	6.1	8.7	4.9	3.6	2.8	1.5	1.5
4	5.4	1.2	5.5	6.3	7.6	5.5	8.1	4.8	3.6	2.7	1.6	1.5
5	5.3	1.2	5.3	6.2	7.4	6.4	7.8	4.7	3.7	2.7	1.6	a 1.6
6	5.3	1.4	5.3	5.9	7.3	6.1	7.6	4.7	3.8	2.6	1.6	1.6
7	5.3	1.5	5.4	5.9	7.3	6.4	7.4	4.8	3.9	2.5	1.6	1.6
8	5.2	1.6	5.5	5.9	7.3	25	7.3	4.8	4.0	2.4	1.6	1.9
9	4.8	1.7	5.4	6.0	7.4	21	7.0	4.9	4.1	2.4	1.6	1.7
10	4.2	1.7	5.4	6.0	7.4	13	6.7	4.9	3.8	2.4	1.6	a 1.7
11	5.0	1.8	5.7	6.0	7.0	9.8	6.7	4.9	3.4	2.4	1.6	1.7
12	7.0	1.7	5.8	6.0	6.9	9.1	6.5	5.0	3.2	2.4	1.6	1.8
13	5.9	1.8	5.8	6.0	6.5	9.2	6.6	5.1	3.0	2.2	1.6	1.8
14	5.4	1.8	5.9	6.2	7.0	9.1	6.7	5.0	3.0	1.9	1.6	1.8
15	4.9	1.6	5.9	6.3	6.9	8.9	6.9	4.9	2.7	1.8	1.6	1.9
16	4.4	1.6	5.9	6.3	7.0	8.9	6.9	4.8	2.7	1.6	1.7	2.1
17	3.4	1.6	6.0	6.4	7.0	8.8	6.9	4.7	2.6	1.6	1.7	1.9
18	3.0	1.8	9.3	6.2	7.1	8.7	6.8	4.5	2.5	1.8	1.7	1.9
19	2.7	2.4	13	6.2	7.2	9.3	6.7	4.5	2.6	2.0	1.7	2.4
20	2.4	2.4	10	6.3	7.3	8.0	6.6	4.3	2.5	2.0	1.7	2.9
21	1.6	4.4	8.2	6.3	7.3	7.7	6.5	4.2	2.4	1.9	1.6	2.9
22	1.0	9.6	7.5	6.3	7.1	7.5	6.3	4.1	2.2	1.8	1.6	2.8
23	0.8	6.4	7.3	6.3	7.0	7.3	6.2	4.1	2.1	2.3	1.6	2.8
24	0.9	4.9	7.0	6.3	7.0	7.2	6.0	4.0	2.3	2.2	1.6	2.7
25	0.9	4.4	6.9	6.3	6.8	7.2	5.9	3.8	2.4	1.9	1.6	2.6
26	0.9	4.4	7.0	6.5	6.6	7.1	5.8	3.7	2.5	1.9	1.6	2.7
27	0.9	4.2	7.0	6.4	6.4	6.9	5.6	3.6	2.5	1.8	1.5	2.6
28	1.0	4.6	6.8	7.0	6.3	6.8	5.5	3.5	2.4	1.8	1.3	2.7
29	1.0	4.6	6.7	6.7	6.3	6.6	5.4	3.3	2.4	1.7	1.3	2.8
30	1.0	7.2	6.5	6.8		7.2	5.2	3.5	2.3	1.6	1.3	3.0
31	1.0		6.5	7.4		7.4		3.7		1.6	1.2	
	108.6	86.7	209.2	195.6	204.9	269.9	203.0	137.9	89.6	65.7	48.5	63.7
MEAN	3.50	2.89	6.75	6.31	7.07	8.71	6.77	4.45	2.99	2.12	1.56	2.12
ACRE-FEET	215.	172.	415.	388.	406.	535.	403.	274.	178.	130.	96.	126.

Remarks:

YEAR OR PERIOD MEAN 4.60
ACRE-FEET 3,340.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F83-R

Daily discharge, in second-feet of MISSION CREEK at San Gabriel Boulevard, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	3.0	2.5	3.0	13	15	10	8.1	8.3	7.7	5.9	5.1
2	2.4	3.0	2.4	3.0	13	14	10	8.3	8.3	8.4	5.8	5.0
3	2.4	3.1	2.4	3.0	13	13	11	8.4	8.5	8.3	5.9	4.9
4	2.8	3.1	2.4	3.0	12	13	11	8.3	8.3	8.2	6.0	4.7
5	3.2	3.2	2.4	3.0	13	13	10	9.0	8.2	8.1	6.0	4.8
6	3.2	3.1	2.4	3.0	c 21	13	11	9.4	8.2	7.8	5.8	4.9
7	3.2	2.9	2.4	3.0	15	13	11	10	8.4	7.8	5.4	4.9
8	3.2	2.8	2.4	3.0	11	13	11	9.8	8.4	7.5	5.4	5.1
9	3.2	2.8	2.4	3.1	11	13	13	9.4	8.5	6.3	5.3	5.1
10	3.2	2.6	2.4	3.0	11	13	12	9.3	8.5	6.2	5.5	5.2
11	3.2	2.5	2.5	3.0	11	13	12	8.4	8.4	7.0	5.6	5.2
12	3.2	2.6	2.6	3.0	10	13	12	8.3	8.6	6.5	5.5	5.2
13	3.2	2.6	2.4	3.3	10	12	12	8.2	8.4	6.5	5.4	5.2
14	3.2	2.6	2.4	8.4	10	12	12	8.2	8.6	6.5	5.4	5.2
15	3.2	2.7	2.4	7.8	12	12	12	8.3	8.5	6.5	5.4	5.2
16	3.2	2.7	2.5	6.3	15	11	11	8.3	8.3	6.3	5.4	5.2
17	3.2	2.7	2.5	5.0	13	11	11	8.3	8.2	6.1	5.5	5.3
18	3.2	2.8	2.4	5.0	13	11	11	8.3	8.4	6.1	5.4	5.3
19	3.2	2.9	2.4	9.4	14	10	11	8.3	8.4	6.0	5.5	5.5
20	3	2.9	2.4	29	15	10	11	8.3	8.4	6.0	5.5	5.7
21	2.7	2.6	2.3	30	13	11	11	8.4	8.3	6.1	5.7	5.8
22	2.6	2.5	2.3	20	15	12	10	8.4	8.5	6.1	5.7	5.9
23	2.7	2.5	2.4	12	23	11	10	8.5	8.5	6.0	5.6	6.0
24	2.9	2.6	2.3	27	27	10	10	8.5	8.9	6.1	5.5	6.2
25	2.7	2.6	2.4	39	30	11	9.8	8.6	9.0	6.6	5.4	6.3
26	2.6	2.6	2.9	38	20	11	9.6	8.6	9.0	6.2	5.4	6.3
27	2.5	2.6	4.0	26	17	11	9.2	8.6	8.3	6.2	5.4	6.2
28	2.5	2.5	3.5	20	c 16	11	8.8	8.7	8.4	6.1	5.4	6.2
29	2.4	2.4	3.1	18		11	8.4	8.7	8.4	6.1	5.6	6.0
30	2.6	2.5	3.1	17		11	8.3	8.3	7.8	6.0	5.1	5.9
31	2.4		3.1	15		10		8.3		5.9	5.0	
	89.3	82.0	80.0	372.3	417	368	320.1	266.5	252.9	207.2	171.4	163.5
MEAN	2.90	2.73	2.58	12.1	14.9	11.8	10.7	8.60	8.43	6.70	5.53	5.45
ACRE-FEET	178.	163.	159.	738.	827.	730.	635.	529.	502.	411.	340.	324.

Remarks:

YEAR OR PERIOD MEAN 7.64
ACRE-FEET 5,540.

STATION F181-R

MONTEBELLO STORM DRAIN above Rio Hondo

LOCATION: LAT. 33°59'59", LONG. 118°06'17", ON THE RIGHT (SOUTH) WALL, 500± FEET ABOVE MOUTH, 150 FEET EAST OF EAST END OF MINES AVENUE, MONTEBELLO.
ELEVATION OF ZERO GAGE HEIGHT 162.22 FEET.

DRAINAGE AREA: 9.6 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - 14 FT. X 10 FT. CONCRETE-COVERED DRAIN. THE STAGE DISCHARGE RELATION MAY BE AFFECTED BY BACKWATER FROM THE RIO HONDO DURING FLOOD FLOWS.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING; HIGH FLOWS FROM OPENINGS IN TOP OF THE BOX.

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: NONE.

RECORDS AVAILABLE: JANUARY 12, 1932 TO AUGUST 5, 1954; DECEMBER 9, 1954 TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 923. SECOND-FEET MARCH 8.
MINIMUM: 0.2 SECOND-FOOT ON SEVERAL DAYS.

1968-69
MAXIMUM: 1,600. SECOND-FEET ESTIMATED JANUARY 25.
MINIMUM: PLUS FLOW AT VARIOUS TIMES.

1931-69
MAXIMUM: 1,600. SECOND-FEET ESTIMATED JANUARY 25, 1969.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

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

REMARKS: MAY BE AFFECTED BY BACKWATER DURING FLOOD FLOWS.

74D74M Gfb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F181-R

Daily discharge, in second-feet of MONTEBELLO STORM DRAIN above Rio Hondo, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.8	0.6	0.5	0.6	0.6	30	0.4	0.4	0.8	1.2	1.1
2	0.4	0.8	0.5	1.0	1.0	0.6	4.0	0.4	0.5	1.0	1.2	1.1
3	0.4	1.0	0.6	1.0	0.5	0.6	0.6	0.8	0.8	1.0	1.1	1.1
4	0.4	0.8	0.5	0.3	0.6	0.5	1.1	0.5	0.6	0.8	0.8	1.1
5	0.4	0.8	1.2	0.6	0.4	0.6	1.1	0.4	0.4	1.0	0.5	1.0
6	0.3	0.5	1.0	0.4	0.2	6.0	1.4	0.4	0.5	1.0	0.5	1.4
7	0.5	0.5	1.4	0.4	0.4	63	1.1	0.6	1.0	0.8	2.6	1.1
8	0.5	0.4	1.2	0.4	1.8	197	1.2	0.5	0.5	1.0	0.5	1.0
9	0.5	0.5	0.8	0.4	9.0	0.8	1.2	0.5	0.6	1.0	0.6	1.1
10	0.5	0.8	0.8	0.3	0.5	0.3	1.4	0.8	0.8	1.0	0.5	1.1
11	0.6	0.6	0.8	2.3	0.3	0.5	1.4	0.5	1.0	1.0	0.8	1.1
12	0.6	0.5	1.1	0.6	1.4	0.6	0.8	0.6	1.2	1.1	1.0	1.2
13	0.6	0.5	1.8	0.5	8.2	11.1	0.8	0.6	1.2	1.1	1.4	1.4
14	0.6	0.4	0.8	0.6	1.0	0.5	0.8	0.8	1.6	1.1	1.4	1.2
15	0.6	0.4	0.8	0.6	0.4	0.8	0.6	0.6	1.0	1.4	1.7	1.2
16	0.6	0.4	0.5	1.4	0.6	4.8	0.8	0.8	1.0	1.2	2.0	1.4
17	1.0	0.5	0.8	0.6	2.0	0.8	0.2	1.0	1.0	1.2	1.4	1.2
18	1.0	0.4	73	1.2	0.5	0.6	0.2	1.0	0.6	1.6	1.1	1.4
19	1.0	57	25	1.6	0.6	1.8	0.6	1.0	0.6	1.4	1.1	1.6
20	0.8	22	0.6	0.6	0.5	0.5	0.4	0.8	0.4	1.4	1.1	1.6
21	1.0	198	0.8	0.8	0.4	0.4	0.4	0.8	0.8	1.4	0.8	1.2
22	1.1	1.4	1.2	0.4	0.4	1.0	0.5	0.5	0.6	1.2	1.0	1.2
23	1.0	0.3	0.8	0.4	0.5	0.6	0.8	0.5	0.8	1.2	0.8	1.0
24	0.8	0.4	0.6	0.8	0.5	0.8	0.5	0.5	1.0	1.2	1.1	0.8
25	0.6	0.4	0.6	0.8	0.5	1.0	0.8	0.6	1.0	1.4	0.8	0.6
26	1.0	0.4	1.0	3.3	0.5	1.0	0.6	0.4	0.8	1.6	1.0	0.6
27	0.8	0.4	0.6	16.8	0.6	1.0	0.6	0.6	1.0	1.4	1.0	0.5
28	0.8	1.4	0.6	0.8	0.3	1.0	0.6	0.3	1.1	3.2	0.8	0.5
29	0.8	0.4	1.1	0.5	0.5	1.2	0.5	0.4	0.8	1.1	1.0	0.5
30	1.0	51	0.6	1.0		1.0	0.5	0.5	1.0	1.1	1.1	0.5
31	0.8		0.5	8.3		0.8		0.8		1.2	1.1	
	21.5	343.7	122.2	49.2	34.7	301.8	55.5	18.9	24.6	37.9	33	31.8
MEAN	0.69	11.5	3.94	1.59	1.20	9.74	1.85	0.61	0.82	1.22	1.06	1.06
ACRE-FEET	43.	682.	242.	98.	69.	599.	110.	37.	49.	75.	65.	63.

Remarks:

YEAR OR PERIOD MEAN: 2.94
ACRE-FEET 2,130.

760:4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F181-R

Daily discharge, in second-feet of MONTEBELLO STORM DRAIN above Rio Hondo for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	1.6	0.3	0.5	1.1	3.4	0.5	0.8	0.8	1.0	2.0	1.1
2	7.9	0.6	0.3	0.8	1.0	1.6	13.9	1.1	0.8	1.0	2.0	1.4
3	2.8	0.8	0.3	1.1	1.1	1.7	4.2	0.5	0.5	1.1	2.0	0.8
4	0.2	1.0	0.3	0.3	1.1	1.2	0.8	0.5	0.5	1.4	3.6	0.8
5	0.3	0.4	0.3	0.3	29	0.8	14.6	1.0	1.0	1.0	1.8	1.0
6	0.4	0.4	0.6	0.6	93	1.2	0.8	0.2	1.0	1.1	2.4	0.5
7	0.5	0.5	0.4	0.3	2.0	1.6	0.5	0.3	1.4	1.6	2.0	0.6
8	1.2	0.6	0.4	0.5	0.8	10.0	0.8	0.3	1.0	2.2	2.6	0.5
9	1.0	0.6	0.4	0.5	0.6	0.8	0.6	0.6	1.0	1.2	1.8	0.6
10	0.8	0.4	0.5	0.6	0.8	34	1.7	0.5	1.0	1.1	1.8	0.5
11	1.2	0.5	5.2	0.3	0.5	0.5	0.8	0.5	1.0	1.8	2.4	0.6
12	1.1	0.4	0.6	0.4	0.5	1.0	0.8	1.0	1.0	1.4	1.8	1.1
13	1.0	0.4	0.6	49	0.3	0.6	0.8	0.5	1.4	1.6	1.6	0.6
14	2.5	0.5	0.3	35	0.6	1.1	1.2	0.5	0.8	1.7	1.8	0.5
15	1.0	17.7	0.6	0.4	66	0.8	1.0	0.6	1.2	2.0	2.4	1.0
16	0.6	0.4	11.6	0.4	1.7	0.6	1.1	1.0	1.6	2.2	2.6	0.5
17	0.6	0.4	1.2	0.8	1.0	1.2	0.5	0.6	0.5	3.0	1.6	0.6
18	1.0	0.8	0.6	42	29	1.0	1.2	0.6	0.6	1.6	1.6	0.8
19	0.6	0.5	1.0	77	26	0.8	0.8	1.1	0.6	1.6	1.4	0.6
20	0.6	0.6	2.9	216	12.6	1.0	0.6	0.5	1.1	1.2	1.6	0.6
21	0.8	0.5	0.5	124	11.3	33	1.4	0.5	0.8	1.4	1.4	0.5
22	0.5	1.0	0.4	23	33	0.8	0.8	0.5	0.8	3.0	1.6	0.8
23	0.5	0.5	1.0	5.8	c 257	0.8	0.6	1.1	1.4	1.6	1.6	0.5
24	0.8	0.5	0.4	145	168	1.1	1.1	0.6	0.8	1.8	1.4	0.5
25	1.1	0.5	22	c 424	c 183	0.6	1.4	0.5	1.0	3.2	1.6	0.8
26	0.8	0.5	21	c 97	176	1.0	1.1	0.6	1.1	2.0	1.2	0.8
27	0.8	0.5	0.8	65	34	0.6	0.8	0.4	1.4	1.7	1.1	0.3
28	1.0	0.5	0.2	76	66	1.2	1.1	0.6	1.2	3.2	1.1	0.8
29	2.7	0.6	0.6	2.0		0.8	0.6	1.1	1.1	1.4	1.0	0.8
30	12.8	0.4	0.8	1.6		0.6	0.6	0.5	1.4	1.4	1.0	0.6
31	1.1		0.5	1.4		0.6		1.0		1.8	0.8	
	48.7	34.6	76.6	1391.6	1217.0	106.0	56.7	20.1	29.8	53.3	54.6	21.1
MEAN	1.57	1.15	2.47	44.9	43.5	3.42	1.89	0.65	0.99	1.72	1.76	1.70
ACRE-FEET	97.	69.	152.	2,760.	2,410.	210.	112.	39.9	59.1	106.	108.	42.

Remarks:

YEAR OR PERIOD MEAN 8.52
ACRE-FEET 6,165.0

STATION F122-R

PALLETT CREEK at Valyermo Highway

LOCATION: LAT. 34°27'38", LONG. 117°51'53", ON THE LEFT (WEST) BRIDGE ABUTMENT UPSTREAM SIDE OF VALYERMO HIGHWAY BRIDGE, 1.3 MILES NORTH OF VALYERMO RANGER STATION, FIVE MILES SOUTHEAST OF PEARBLOSSOM. ELEVATION OF ZERO GAGE HEIGHT 3,535± FEET.

DRAINAGE AREA: 18.3 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND GRAVEL.
CONTROL - BRIDGE CULVERT FOR EXTREMELY HIGH FLOWS.

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

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - NONE.

RECORDS AVAILABLE: OCTOBER 31, 1961 TO SEPTEMBER 30, 1969. PREVIOUS MEASUREMENTS AT STATION F122-S.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 9.6 SECOND-FEET NOVEMBER 21.
MINIMUM: 0.3 SECOND-FOOT AT VARIOUS TIMES.

1968-69
MAXIMUM: 1,480. SECOND-FEET FEBRUARY 25.
MINIMUM: 0.3 SECOND-FOOT AT VARIOUS TIMES.

1961-69
MAXIMUM: 1,480. SECOND-FEET FEBRUARY 25, 1969.
MINIMUM: NO FLOW PART OF SOME YEARS.

ACCURACY: FAIR.

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

76D74M Gib 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F122-R

Daily discharge, in second-feet of PALLETT CREEK at Valyermo Highway, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	1.0	1.3	1.1	0.8	0.9	1.0	1.2	0.5	0.8	0.8	0.7
2	1.3	1.0	1.3	1.1	0.8	0.9	a 1.0	0.8	0.5	0.8	0.8	0.4
3	1.3	1.0	1.3	1.1	0.8	0.9	1.0	0.8	0.5	0.8	0.7	0.4
4	1.3	1.0	1.2	1.1	0.8	1.0	0.9	1.0	0.5	0.8	0.6	0.4
5	1.2	1.0	1.2	1.0	0.8	1.0	0.9	1.0	0.5	0.8	0.5	0.4
6	1.1	1.0	1.2	1.0	0.8	1.0	0.9	1.0	0.5	0.8	0.5	0.4
7	1.1	1.0	1.2	1.0	0.8	1.0	0.9	1.0	0.5	0.7	0.5	0.4
8	1.1	0.9	1.1	1.0	0.8	1.0	0.9	1.0	0.5	0.7	0.5	0.4
9	1.1	0.7	1.1	1.0	0.8	1.0	0.8	1.0	0.5	0.7	0.5	0.4
10	1.1	0.7	1.1	1.0	0.8	1.0	a 0.8	1.0	0.5	0.7	0.5	0.4
11	1.0	0.7	1.0	1.0	0.8	1.0	0.8	0.9	0.6	0.6	0.5	0.4
12	1.0	0.8	1.0	1.0	0.8	1.0	0.9	0.8	0.6	0.6	0.5	0.4
13	1.0	0.8	0.9	1.0	0.8	1.0	0.9	0.8	0.6	0.5	0.5	0.4
14	1.0	0.8	0.8	1.0	0.8	1.0	1.0	0.7	0.6	0.5	0.5	0.4
15	1.0	0.8	0.8	1.0	0.8	1.0	1.0	0.6	0.6	0.5	0.6	0.4
16	1.0	0.8	0.8	1.0	0.8	1.0	1.0	0.6	0.6	0.4	0.6	a 0.4
17	1.0	0.8	0.9	1.0	0.8	1.0	1.0	0.6	0.7	0.4	0.7	a 0.3
18	1.0	0.8	0.9	0.9	0.8	1.0	1.0	0.7	0.7	0.4	0.7	0.3
19	1.0	2.7	1.0	0.9	0.8	1.0	1.0	0.7	0.7	0.3	0.7	a 0.3
20	1.0	2.9	1.0	0.8	0.8	0.8	1.0	0.7	0.7	0.3	0.7	0.3
21	1.0	5.0	1.0	0.8	0.8	0.8	1.1	0.7	0.7	0.3	0.7	0.3
22	1.0	3.1	1.0	0.8	0.8	0.8	1.2	0.7	0.7	0.3	0.7	0.3
23	1.0	2.2	1.0	0.7	0.8	0.8	1.3	0.7	0.7	0.3	0.7	0.3
24	1.0	1.9	1.0	0.7	0.8	0.8	1.3	0.7	0.7	0.3	0.7	0.3
25	1.1	1.7	1.1	0.7	0.8	0.8	1.3	0.6	0.7	0.3	0.7	0.3
26	1.1	1.6	1.1	0.7	0.9	0.8	1.3	0.6	0.7	0.3	0.7	0.3
27	1.1	1.4	1.1	0.7	0.9	0.8	1.3	0.6	0.8	0.4	0.7	0.3
28	1.1	1.3	1.1	0.8	0.9	0.8	1.3	0.6	0.8	0.4	0.7	0.3
29	1.0	1.2	1.1	0.8	0.9	0.8	1.3	0.6	0.8	1.3	0.6	0.3
30	1.0	1.3	1.1	0.8		0.8	1.2	0.5	0.8	1.3	0.6	a 0.3
31	1.0		1.1	0.8		0.9		0.5		0.8	0.6	
	33.3	41.9	32.8	28.3	23.6	28.4	31.3	23.7	18.8	18.1	19.3	10.9
MEAN	1.07	1.40	1.06	0.91	0.81	0.92	1.04	0.76	0.63	0.58	0.62	0.36
ACRE-FEET	66.	83.	65.	56.	47.	56.	62.	47.	37.	36.	38.	22.

Remarks:

YEAR OR PERIOD MEAN 0.85
ACRE-FEET 615.

76D74M Gib 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F122-R

Daily discharge, in second-feet of PALLETT CREEK, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.3	a 0.4	e 0.5	e 0.8	29	e 29	11	6.8	4.5	2.5	1.5
2	0.3	0.3	0.4	0.5	0.7	26	18	12	7.6	4.5	1.5	1.5
3	0.3	0.3	0.4	0.5	0.8	22	15	11	6.8	4.5	1.5	1.0
4	0.3	0.4	a 0.4	0.5	1.0	20	15	12	6.0	4.5	1.0	1.0
5	0.3	0.4	e 0.4	0.5	e 1.1	12	18	11	5.5	4.0	1.0	1.0
6	0.3	0.4	0.4	0.5	6.8	11	23	10	5.5	3.5	1.0	a 1.0
7	0.3	0.4	0.4	0.5	1.6	9.2	22	10	5.0	4.5	1.0	1.0
8	0.3	0.4	0.4	0.5	1.6	8.4	20	9.2	5.0	4.0	1.5	1.0
9	0.3	0.4	0.4	0.5	1.0	6.8	14	9.2	5.0	3.0	1.5	a 1.0
10	0.3	0.4	0.4	0.5	0.7	6.8	16	10	5.0	2.5	2.0	1.0
11	0.3	0.4	0.4	0.5	0.9	6.0	20	9.2	4.5	3.0	2.0	1.0
12	0.3	0.4	0.4	0.5	1.4	7.6	20	8.4	5.0	2.5	2.0	1.0
13	0.3	0.4	0.4	0.5	1.4	11	15	8.4	5.0	2.0	2.0	1.0
14	0.3	0.4	0.4	0.5	1.4	8.4	15	7.6	5.0	1.0	2.0	1.0
15	0.3	0.4	0.4	0.5	1.4	6.0	e 15	8.4	5.0	1.5	2.0	1.0
16	0.3	0.4	0.5	0.5	1.4	5.0	13	7.6	a 5.0	1.5	2.5	0.9
17	0.3	0.4	0.5	0.5	1.4	4.5	13	7.6	a 4.5	1.5	2.5	0.9
18	0.3	0.4	0.5	0.5	1.3	6.0	12	8.4	4.0	2.5	2.5	0.9
19	0.3	0.4	0.5	e 0.5	1.2	7.6	12	7.6	4.5	a 2.5	2.5	0.9
20	0.3	0.4	0.5	1.8	1.2	9.2	11	7.6	4.5	2.5	2.0	0.9
21	0.3	0.4	0.5	18	1.2	4.0	11	7.6	4.5	2.5	1.5	1.0
22	0.3	0.4	0.5	2.8	1.3	2.5	10	7.6	4.5	2.5	1.5	1.5
23	0.3	0.4	0.5	1.0	2.7	0.7	10	6.8	4.5	2.5	1.0	1.5
24	0.3	a 0.4	0.5	1.1	203	0.5	12	6.8	4.5	2.5	1.0	1.5
25	0.3	0.4	0.5	280	770	0.5	12	6.8	5.0	2.0	1.0	1.5
26	0.3	0.4	0.5	37	133	0.3	11	6.8	5.0	2.0	1.0	1.0
27	0.3	0.4	0.5	15	14	e 0.5	12	6.8	5.0	2.0	1.0	2.0
28	0.3	0.4	0.5	e 2.4	21	0.6	8.4	7.6	5.0	2.0	1.0	2.0
29	0.3	0.4	0.5	e 1.9		0.7	10	7.6	5.0	a 2.0	1.0	2.0
30	0.3	a 0.4	0.5	1.9		0.7	11	6.8	4.5	2.0	1.0	2.0
31	0.3		e 0.5	e 1.1		e 1.8		6.8		2.5	2.0	
	9.3	11.7	14.0	373.5	1174.3	238.1	436.4	264.2	152.7	84.5	49.5	36.5
MEAN	0.30	0.39	0.45	12.0	41.9	7.68	14.5	8.52	5.09	2.73	1.60	1.22
ACRE-FEET	18.	23.	28.	741.	2,330.	472.	866.	524.	303.	168.	98.	72.

Remarks:

YEAR OR PERIOD MEAN 7.79
ACRE-FEET 5,640.

STATION F64-R

RIO HONDO above Mission Bridge

LOCATION: LAT. 34°01'59", LONG. 118°04'22", ON THE RIGHT (WEST) BANK ABOUT 1,000 FEET ABOVE MISSION BRIDGE (SAN GABRIEL BOULEVARD) AND TWO MILES NORTHEAST OF MONTEBELLO. ELEVATION OF ZERO GAGE HEIGHT 190.77 FEET.

DRAINAGE AREA: 115. SQUARE MILES (EXCLUDES DRAIN. AREA ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: CHANNEL - SAND AND SILT.
CONTROL - NONE.

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

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - PARTIALLY REGULATED BY SIERRA MADRE DAM, EATON DAM, SANTA FE DAM, SANTA ANITA DAM, AND SAWPIT DAM; SEVERAL DEBRIS BASINS AND SPREADING GROUNDS; AND RELEASE FROM THE METROPOLITAN WATER DISTRICT'S MIDDLE FEEDER TO ALHAMBRA WASH.
DIVERSION - THE CITY OF PASADENA DIVERTS WATER FROM EATON CREEK; THE CITY OF MONROVIA FROM SAWPIT AND MONROVIA CREEKS; THE CITY OF SIERRA MADRE FROM LITTLE SANTA ANITA CANYON; SEVERAL DIVERSIONS FOR IRRIGATION AND SPREADING.

RECORDS AVAILABLE: JULY 1, 1928 TO SEPTEMBER 30, 1969 (FOR RECORDS PRIOR TO JULY 1928, SEE STATE DIVISION OF WATER RIGHTS BULLETINS). (RECORDS FROM MARCH 6, 1938, TO MARCH 15, 1938 ARE FOR STATION F64B-R.)

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 7,900 SECOND-FEET MARCH 8.
MINIMUM: 5.3 SECOND-FEET SEPTEMBER 1.

1968-69
MAXIMUM: 20,000. SECOND-FEET JANUARY 25.
MINIMUM: 6.6 SECOND-FEET AT VARIOUS TIMES.

1928-69
MAXIMUM: 28,000 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

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

REMARKS: WATER PURCHASED FROM THE METROPOLITAN WATER DEPARTMENT PASSES THIS STATION FOR SPREADING IN THE COASTAL BASIN.
1967-68 - 66,520. ACRE-FEET.
1968-69 - 12,470. ACRE-FEET.

74DT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F64-R

Daily discharge, in second-feet of RIO HONDO above Mission Bridge, for the year ending September 30, 19 68

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	158	162	9.4	131	119	155	271	137	220	120	9.0	5.3
2	156	162	7.7	137	119	175	106	107	220	235	9.4	5.6
3	160	160	7.3	135	121	177	130	59	225	235	9.4	6.6
4	160	156	8.0	137	123	179	126	b 8.0	228	235	10	78
5	160	154	9.0	137	121	182	126	b 8.0	230	248	11	196
6	150	152	70	137	126	192	124	60	225	235	8.0	200
7	142	152	151	137	131	475	123	112	238	235	17	186
8	142	148	139	137	130	1490	121	111	230	235	9.4	184
9	150	148	124	120	196	18	135	111	133	235	13	173
10	156	146	114	70	16	b 10	150	111	9.4	160	9.4	162
11	156	146	114	70	8.5	109	152	111	9.4	c 8.0	9.0	164
12	158	146	128	104	13	212	150	118	9.0	c 9.0	9.4	173
13	154	144	142	99	64	152	150	124	8.5	10	9.9	182
14	156	111	112	99	22	93	148	113	9.0	9.0	9.9	191
15	152	9.0	69	99	7.7	196	150	129	13	b 8.5	9.0	196
16	150	9.0	146	99	7.3	214	152	158	13	b 8.0	8.0	170
17	137	68	146	106	11	210	154	160	15	b 7.5	8.0	12
18	139	142	584	119	5.6	65	154	160	14	7.3	7.0	107
19	144	1,130	176	121	79	15	156	164	12	7.7	8.0	215
20	182	544	15	123	122	13	154	158	11	9.9	7.7	205
21	232	1,030	8.0	121	8.5	12	154	166	11	7.3	7.7	203
22	245	23	8.5	123	7.0	12	154	166	13	7.3	7.3	205
23	228	12	7.7	119	6.0	12	154	164	102	7.3	7.7	171
24	250	11	7.7	114	5.6	9.0	156	164	242	8.5	7.0	160
25	194	9.9	7.7	118	5.3	48	160	152	235	7.3	6.3	160
26	152	7.7	66	109	55	116	162	150	235	9.9	7.3	168
27	154	8.0	133	193	133	114	175	117	238	9.0	7.0	171
28	156	37	130	15	135	118	173	b 8.4	162	14	7.0	179
29	156	70	130	9.9	137	116	168	89	13	9.4	7.7	184
30	158	437	131	49		111	164	150	9.0	10	7.7	133
31	158		130	144		109		188		11	6.6	
	5,145	5,634.6	3,031.0	3,431.9	2,034.5	5,109.0	4,552	3,733.4	3,332.3	2,358.9	270.8	4,545.5
MEAN	166.	188.	97.8	111.	70.2	165.	152.	120.	111.	76.1	8.74	152.
ACRE-FEET	10,200.	11,180.	6,010.	6,810.	4,040.	10,130.	9,030.	7,410.	6,610.	4,680.	537.	9,020.

Remarks:

YEAR OR PERIOD MEAN: 118.
ACRE-FEET: 85,660.

76D14M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F64-R

Daily discharge, in second-feet of RIO HONDO above Mission Bridge, for the year ending September 30, 19 69

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.4	158	7.3	7.0	b 130	c 475	89	124	128	18	213	15
2	11	162	7.7	7.3	b 220	490	181	157	131	12	210	16
3	128	144	7.0	8.1	b 300	475	211	131	141	12	200	15
4	210	139	7.3	7.5	167	c 390	32	124	131	12	197	14
5	220	142	7.3	7.2	506	290	253	131	131	11	124	13
6	203	140	7.3	7.8	1,810	230	92	92	157	12	10	13
7	208	126	7.7	7.8	c 190	195	72	94	170	12	9.4	12
8	228	135	7.3	7.8	125	213	174	103	89	13	9.4	12
9	228	122	7.7	8.1	110	170	197	134	84	13	9.1	11
10	196	116	7.7	7.8	105	436	305	128	12	13	9.1	10
11	200	123	23	7.8	119	151	263	121	11	16	9.4	9.7
12	222	83	7.3	7.2	105	151	266	118	9.7	11	9.1	10
13	212	56	7.0	335	c 80	144	289	121	9.7	11	8.8	11
14	220	92	7.0	419	173	121	296	121	9.4	11	8.4	12
15	215	90	7.7	11	862	100	322	114	9.4	12	8.1	12
16	171	16	56	9.2	122	81	295	124	10	12	7.2	13
17	166	10	8.0	85	81	81	233	111	60	12	7.2	13
18	171	57	7.0	339	582	97	242	108	157	11	7.5	13
19	179	72	7.0	464	453	100	226	114	151	10	47	13
20	105	61	8.5	1,650	370	97	279	118	157	9.7	152	12
21	9.9	8.0	7.7	1,490	285	539	190	121	157	9.4	154	12
22	8.5	9.5	6.6	717	662	118	124	124	157	72	92	12
23	62	8.5	6.6	106	2,960	81	80	105	141	174	50	13
24	156	8.0	7.0	982	2,520	77	80	97	118	180	34	12
25	140	7.7	93	8,600	6,010	72	79	92	121	190	25	12
26	137	7.7	100	3,500	1,430	65	124	92	128	190	21	12
27	150	7.3	9.4	1,310	871	63	114	105	131	190	21	11
28	156	7.3	8.0	615	922	70	121	141	128	190	19	11
29	101	7.3	8.5	358		65	124	137	134	210	20	12
30	77	7.3	8.0	289		56	111	134	116	226	18	14
31	70		8.0	210		58		134		220	16	
	4,569.8	2121.6	475.6	21,575.6	22,261	5,851	5,664	3,670	3,089.2	2,095.1	1,725.7	370.7
MEAN	147.	70.7	15.3	695.	795.	189.	189.	118.	103.	67.6	55.7	12.4
ACRE-FEET	9,060.	4,210.	943.	42,790.	44,150.	11,600.	11,230.	7,280.	6,130.	4,160.	3,420.	735.

Remarks:

YEAR OR PERIOD MEAN 201.
ACRE-FEET 145,710.

STATION F45B-R

RIO HONDO above Stewart and Gray Road

LOCATION: LAT. 33°56'48", LONG. 118°08'43", ON THE LEFT (EAST) BANK, 0.6 MILE UPSTREAM OF JUNCTION OF RIO HONDO AND LOS ANGELES RIVER AND ABOUT 1.5 MILES WEST OF DOWNEY. ELEVATION OF ZERO GAGE HEIGHT 91.4 FEET.

DRAINAGE AREA: 140 SQUARE MILES. (EXCLUDES DRAINAGE AREA ABOVE SANTA FE DAM.)

CHANNEL AND CONTROL: CHANNEL - TRAPEZOIDAL, CONCRETE, 100 FEET WIDE AT TOP WITH 2.25:1 RIPRAPPED SLOPES.
CONTROL - CHANNEL FORMS CONTROL.

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

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - SAME AS STATION F64-R PLUS WHITTIER NARROWS AND RIO HONDO SPREADING GROUNDS. FLOW FROM SAN GABRIEL RIVER BELOW SANTA FE DAM AND ABOVE WHITTIER NARROWS DAM IS OCCASIONALLY DIVERTED TO RIO HONDO.
DIVERSION - THE CITY OF PASADENA DIVERTS WATER FROM EATON CREEK; THE CITY OF MONROVIA DIVERTS WATER FROM MONROVIA AND SAWPIT CREEKS; THE CITY OF SIERRA MADRE DIVERTS WATER FROM LITTLE SANTA ANITA CANYON. THERE ARE ALSO SEVERAL DIVERSIONS FOR IRRIGATION AND SPREADING.

RECORDS AVAILABLE: MARCH 1928 TO APRIL 18, 1951, AND FROM OCTOBER 31, 1951 TO SEPTEMBER 30, 1969. (FOR RECORDS PRIOR TO MARCH 1928, SEE STATE DIVISION OF WATER RIGHTS BULLETINS.)

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 17,900. SECOND-FEET MARCH 8.
MINIMUM: PLUS FLOW AT VARIOUS TIMES.

1968-69
MAXIMUM: 46,900. SECOND-FEET JANUARY 25.
MINIMUM: PLUS FLOW AT VARIOUS TIMES.

1928-69
MAXIMUM: 46,000 SECOND-FEET JANUARY 25, 1969.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

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

760T4M Gib 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F45B-R

Daily discharge, in second-feet of RIO HONDO above Stewart and Gray Road for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.2	0.2	0	0.3	1.0	76	2.8	4.4	+	0.3	+
2	0.3	0.3	+	+	0.3	0.3	19.9	2.8	1.8	+	0.3	|
3	0.1	0.3	0	+	0.3	0.3	b 0.4	2.8	2.0	0.3	0.3	|
4	+	0.3	0	0	0.3	0.3	| 0.4	0.3	2.0	0.3	0.3	|
5	|	0.5	1.4	+	0.3	0.3	| 0.4	0.3	0.2	1.4	0.2	+
6	|	1.0	0.4	|	0.3	17.0	| 0.4	+	+	0.5	0.3	0.3
7	|	0.3	2.7	|	0.3	196	| 0.4	|	0.2	1.0	1.0	1.8
8	+	0.3	2.2	|	4.0	4,300	| 0.3	|	0.2	0.5	0.2	0.2
9	0.2	0.2	+	|	14.8	b 1.0	| 0.3	|	+	0.3	0.3	0.3
10	0.3	+	0	+	1.4	1.0	| 0.3	+	+	0.5	0.3	0.3
11	0.3	|	+	4.2	0.3	1.0	| 0.3	0.3	0.5	0.1	0.3	0.2
12	0.2	|	+	0.3	0.3	1.0	| 0.3	0.3	1.8	0.1	0.3	0.2
13	0.2	|	+	0.2	11.1	25	| 0.3	0.2	0.3	+	0.3	0.2
14	0.3	|	0	0.2	1.8	1.0	| 0.2	+	+	+	0.2	0.2
15	0.3	|	0	0.2	0.3	1.0	| 0.2	|	0.2	+	0.2	0.2
16	0.2	|	0	0.3	0.3	3.1	b 0.1	|	+	0.2	0.3	+
17	0.2	|	+	0.3	2.0	1.0	+	+	+	+	0.2	0.2
18	0.3	+	1,100	0.3	0.3	0.8	+	0.1	+	|	0.2	0.2
19	0.1	577	77	1.0	0.3	0.7	+	+	+	|	+	0.3
20	+	1,801	+	0.3	0.3	0.5	b 0.1	|	0.1	|	|	0.3
21	+	2,370	|	0.3	0.3	0.4	| 0.2	|	0.1	|	|	0.3
22	+	24	|	0.3	0.3	0.3	| 0.3	|	+	|	|	1.0
23	0.2	+	|	0.3	0.3	0.2	| 0.3	|	0.2	|	|	0.3
24	0.3	|	+	0.3	0.3	b 0.1	| 0.4	+	+	|	|	0.3
25	0.3	|	0	0.5	0.3	+	| 0.5	0.1	|	|	|	0.3
26	0.3	|	+	3.0	0.3	|	| 0.8	0.2	|	+	|	0.3
27	0.3	+	|	34	1.0	|	| 1.1	0.2	|	0.2	|	0.3
28	0.3	0.1	|	1.4	1.0	|	| 1.4	1.4	|	7.2	|	0.2
29	0.2	+	|	0.3	0.5	|	b 1.7	0.2	|	0.3	|	+
30	0.2	158	+	0.3	|	|	| 2.0	1.8	+	0.3	|	+
31	0.2	|	0	21	|	+	|	3.6	|	0.2	+	|
	5.6	3,233.5	1,183.9	69.0	43.6	4,553.3	189.0	17.4	14.0	13.4	5.5	7.9
MEAN	0.18	108.	38.2	2.22	1.50	147.	3.63	0.56	0.47	0.43	0.18	0.26
ACRE-FEET	11.	6,410.	2,350.	136.	86.	9,030.	216.	35.	28.	27.	11.	16.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 29.3
ACRE-FEET 18,360.

760T4M Gib 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F45B-R

Daily discharge, in second-feet of RIO HONDO above Stewart and Gray Road for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	|	0.3	1.0	2,270	0.8	1.4	0.4	0.4	0.8	0.8
2	0.2	0.1	+	0.3	1.2	b 317	20	1.4	0.8	+	1.0	1.0
3	7.1	0.2	|	0.8	1.2	| 8.0	117	1.2	0.4	0.1	0.8	1.0
4	0.3	0.3	|	0.6	1.4	| 0.1	0.8	1.0	0.3	0.4	0.8	0.3
5	0.2	+	|	0.6	267	| 0.1	145	1.4	0.4	0.3	0.8	0.1
6	0.3	|	|	0.6	4,770	| 0.1	7.1	1.2	0.6	0.4	+	0.3
7	0.3	|	|	0.8	1,980	| 0.1	1.4	1.0	0.6	0.8	0.3	0.1
8	0.3	|	|	0.8	4,260	| 0.1	1.4	0.8	0.4	0.8	0.4	0.1
9	0.2	+	|	0.6	4,170	| 0.1	9.5	0.8	0.3	0.8	0.8	+
10	0.3	0.1	+	0.8	1,930	263	88	0.8	0.1	0.6	0.8	+
11	0.2	0.2	8.6	0.6	40	| 2.0	132	0.8	+	0.8	0.8	+
12	0.3	0.2	+	0.3	117	| 0.1	104	0.8	|	1.2	1.0	0.1
13	0.3	+	|	114	104	| 0.1	142	0.8	|	0.8	0.8	+
14	1.4	+	+	114	92	| 0.1	142	0.6	|	0.6	0.8	0.3
15	0.3	23.8	0.3	1.0	1,240	| 0.1	157	0.6	+	0.6	1.0	+
16	0.2	1.0	14.2	0.4	669	| 0.1	157	0.8	0.1	0.6	1.0	+
17	0.2	0.2	0.3	1.2	38	| 0.1	122	0.8	1.0	0.1	0.8	|
18	0.3	0.2	+	97	198	| 0.1	209	0.6	0.6	+	0.6	0.8
19	0.2	0.3	0.1	191	385	25	193	0.6	0.8	|	0.8	0.4
20	0.2	0.2	3.8	1,980	959	| 0.1	152	0.6	2.6	|	0.8	+
21	0.2	0.1	+	1,420	309	273	60	0.4	7.6	|	0.8	|
22	0.3	+	|	275	1,500	51	3.2	0.4	1.2	|	0.8	|
23	0.2	0.1	|	5.8	6,570	| 0.3	2.6	1.2	0.8	|	0.8	|
24	0.2	0.1	+	1,110	6,700	| 0.1	1.8	0.8	0.8	|	0.8	|
25	0.3	+	38	23,100	19,100	| 0.1	1.6	0.8	0.4	|	0.6	|
26	0.2	|	37	18,000	12,800	| 0.1	1.4	0.6	0.6	|	0.8	|
27	0.3	|	0.1	7,620	8,110	| 0.2	2.4	0.6	0.6	+	0.1	|
28	0.1	|	0.4	8,280	8,280	| 0.3	1.0	0.4	0.6	a 0.1	0.1	|
29	0.1	|	1.2	271	|	| 0.5	1.0	0.6	0.8	| 0.3	0.1	|
30	15.2	+	0.4	145	|	| 0.7	1.4	0.6	+	| 0.4	0.3	+
31	0.1	|	0.3	17.8	|	b 0.8	|	0.4	|	a 0.6	0.6	|
	30.0	27.1	104.7	62,750.3	86,592.8	3,213.5	1,976.7	24.8	22.8	10.7	20.7	5.3
MEAN	0.97	0.90	3.38	2,020.	3,090.	130.	65.9	0.80	0.76	0.35	0.67	0.18
ACRE-FEET	60.	54.	208.	124,500.	171,800.	6,370.	3,920.	51.	45.	21.	41.	10.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 424.
ACRE-FEET 307,100.

STATION U15-R

SAN ANTONIO CREEK below Edison Company Power Plant Diversion

LOCATION: LAT. 34°12'58", LONG. 117°40'04", ON RIGHT (WEST) BANK, 0.5 MILE UPSTREAM OF SOUTHERN CALIFORNIA EDISON COMPANY'S SIERRA POWER PLANT AND 8.8 MILES NORTHEAST OF CLAREMONT ELEVATION OF ZERO GAGE HEIGHT 3,400± FEET.

DRAINAGE AREA: 16.5 SQUARE MILES.

RECORDS AVAILABLE: MARCH 1901 TO SEPTEMBER 1969.
AVERAGE DISCHARGE - 52 YEARS (1917-69) 12.3 SECOND-FEET; AVERAGE COMBINED DISCHARGE OF CREEK AND CONDUIT (1901-69) 64 YEARS 25.3 SECOND-FEET.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 105. SECOND-FEET NOVEMBER 19.
MINIMUM: 0.2 SECOND-FOOT AUGUST 12.

1968-69
MAXIMUM: 16,400. SECOND-FEET JANUARY 25.
MINIMUM: 0.3 SECOND-FOOT DECEMBER 24.

1917-69
MAXIMUM: 21,400. SECOND-FEET MARCH 2, 1938.
MINIMUM: 0.3 SECOND-FOOT AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY. THIRTY-TWO DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

REMARKS: SOUTHERN CALIFORNIA EDISON COMPANY'S CONDUIT DIVERTS WATER ABOVE STATION.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U15-R

Daily discharge, in second-feet of SAN ANTONIO CREEK near Edison Company Power Plant Diversion, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	1.1	8.1	1.8	1.8	1.2	9.3	1.3	1.1	1.3	1.8	0.4
2	0.9	1.1	2.2	1.7	1.6	1.2	7.3	1.7	1.2	1.3	1.7	0.4
3	0.9	1.2	2.4	1.6	1.6	1.1	6.1	1.7	1.4	1.3	1.6	0.5
4	0.9	1.2	2.1	1.5	1.6	1.1	5.3	1.8	1.5	1.1	1.5	0.6
5	0.9	1.2	2.0	1.5	1.5	1.0	1.1	1.7	1.5	1.2	1.4	0.5
6	0.9	1.2	2.0	1.5	1.5	1.1	1.1	1.7	1.6	1.2	1.1	0.4
7	0.9	1.3	2.0	1.5	1.4	1.3	1.1	1.7	1.7	1.2	0.3	0.4
8	0.9	1.6	2.0	1.4	1.4	22	1.1	1.7	1.7	1.2	0.3	0.4
9	0.9	1.5	1.9	1.4	1.5	5.3	1.1	2.1	1.7	1.1	0.3	0.4
10	0.9	1.3	1.7	1.4	1.8	4.3	1.3	1.7	1.6	0.9	0.3	0.4
11	0.9	1.3	1.7	1.4	1.8	3.7	1.3	1.7	1.5	0.9	0.2	0.4
12	0.9	1.2	1.9	1.4	1.7	3.3	1.3	1.8	1.5	0.7	0.2	0.4
13	0.9	1.1	1.8	1.4	2.3	9.7	1.3	1.7	1.4	0.7	0.2	0.4
14	0.9	1.1	1.7	1.4	2.7	11	1.3	1.7	1.3	0.7	0.4	0.4
15	0.9	1.1	1.8	1.4	2.2	8.9	1.3	1.7	1.3	0.6	0.6	0.4
16	0.9	1.1	1.7	1.4	2.1	8.4	1.5	1.6	1.3	0.6	0.7	0.5
17	0.9	1.1	1.9	1.4	2.0	7.3	1.5	1.6	1.2	0.6	0.8	0.4
18	0.9	1.2	1.8	1.5	1.9	3.3	1.4	1.5	1.2	0.6	0.8	0.4
19	1.0	9.4	1.7	1.5	1.9	2.3	1.4	1.3	1.2	0.5	0.8	0.5
20	1.0	19	1.6	1.5	1.8	2.0	1.3	1.2	1.2	0.5	0.8	0.6
21	1.0	10	1.6	1.5	1.7	1.7	1.3	1.1	1.2	0.5	0.8	0.6
22	1.1	6.0	1.7	1.5	1.6	1.5	1.3	1.2	1.2	0.5	0.7	0.6
23	1.1	4.0	1.7	1.5	1.5	1.4	1.3	1.2	1.1	0.5	0.7	0.5
24	1.1	3.0	1.9	1.5	1.4	1.3	1.3	1.1	1.2	0.5	0.6	0.5
25	1.1	2.0	2.0	1.5	1.4	1.2	1.3	1.0	1.2	0.5	0.6	0.4
26	1.2	2.0	1.9	1.7	1.4	1.1	1.3	1.0	1.2	0.5	0.6	0.4
27	1.2	2.0	1.9	2.7	1.4	1.1	1.3	0.9	1.2	0.6	0.7	0.4
28	1.2	1.9	1.9	2.3	1.3	1.0	1.3	0.8	1.3	7.1	0.4	0.4
29	1.2	1.8	1.9	2.0	1.3	1.0	1.3	1.2	1.3	18	0.4	0.5
30	1.1	9.9	1.9	2.0		0.9	1.3	1.1	1.3	6.3	0.4	0.6
31	1.1		1.8	2.0		0.9		1.1		2.6	0.4	
	30.4	92.9	64.2	49.8	49.1	112.6	61.4	44.6	40.3	56.0	22.2	13.7
MEAN	0.98	3.10	2.07	1.61	1.69	3.63	2.05	1.44	1.34	1.81	0.72	0.46
ACRE-FEET	60.	184.	127.	99.	97.	223.	122.	88.	80.	111.	44.	27.

Remarks:

YEAR OR PERIOD MEAN 1.74
ACRE-FEET 1,260.

TSD14M C6b 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U15-R

Daily discharge, in second-feet of SAN ANTONIO CREEK below Edison Company Power Plant Diversion, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.60	0.7	0.7	0.7	373	375	152	110	92	37	29	24
2	0.7	0.6	0.7	0.8	335	343	159	109	91	37	30	24
3	0.8	0.6	0.8	0.7	304	331	169	109	90	37	30	24
4	0.8	0.6	0.7	0.6	271	316	158	108	88	36	30	24
5	0.8	0.6	0.7	0.6	241	282	161	108	85	36	29	23
6	0.7	0.6	0.7	0.6	364	249	159	108	83	35	29	22
7	0.7	0.6	0.7	0.6	343	228	150	107	81	35	29	21
8	0.7	0.6	0.7	0.6	261	204	147	107	79	35	27	21
9	0.6	0.6	0.6	0.6	201	190	144	106	75	34	29	21
10	0.6	0.5	0.6	0.6	164	179	141	106	73	34	29	21
11	0.6	0.5	0.7	0.7	138	164	139	105	71	34	28	21
12	0.6	0.6	0.7	0.8	133	152	137	104	68	33	29	20
13	0.6	0.6	0.6	0.9	131	138	135	103	64	33	29	20
14	0.6	0.6	0.6	1.3	128	126	133	103	62	32	29	20
15	0.7	0.8	0.6	1.0	128	118	131	102	59	31	29	19
16	0.6	0.8	0.6	0.8	128	118	129	102	57	31	29	19
17	0.6	0.8	0.6	0.6	126	116	127	102	55	31	29	19
18	0.5	0.8	0.6	0.6	126	116	124	102	52	30	29	19
19	0.5	0.7	0.5	1.8	124	116	121	101	50	30	28	18
20	0.5	0.8	0.6	15	124	116	119	101	48	30	28	18
21	0.5	0.7	0.5	663	124	116	118	100	46	30	27	18
22	0.5	0.7	0.4	440	122	116	117	100	45	30	27	17
23	0.5	0.7	0.4	300	174	116	116	99	43	29	26	17
24	0.6	0.6	0.3	500	450	116	115	99	42	29	26	17
25	0.6	0.7	1.0	4,430	2,070	113	115	98	41	29	26	17
26	0.5	0.6	1.5	2,400	814	116	114	98	41	32	26	17
27	0.5	0.6	1.1	1,480	713	118	113	97	40	32	25	17
28	0.5	0.6	1.0	530	425	115	112	97	39	30	25	16
29	0.5	0.7	0.9	440		114	111	96	39	30	25	16
30	0.6	0.7	0.8	412		118	110	95	38	30	25	15
31	0.6		0.8	404		136		94		30	25	
	18.7	19.6	21.7	12,028.9	9,035	5,270	3,976	3,176	1,836	1,002	861	585
MEAN	0.60	0.65	0.70	388.	323.	170.	133.	102.	61.2	32.3	27.8	19.5
ACRE-FEET	37.	39.	43.	23,860.	17,920.	10,450.	7,890.	6,300.	3,640.	1,990.	1,710.	1,160.

Remarks:

YEAR MEAN 104.
OR
PERIOD ACRE-FEET 75,030.

TSD14M C6b 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No.

Daily discharge, in second-feet of SAN ANTONIO CREEK AND SOUTHERN CALIFORNIA EDISON COMPANY'S CONDUIT, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	14	22	16	16	17	24	20	17	15	1.8	9.8
2	16	14	17	16	15	18	20	21	17	14	1.9	10.0
3	16	14	18	16	15	18	21	21	17	14	1.6	10
4	16	14	18	16	15	20	21	21	16	14	1.5	10
5	16	14	18	16	14	20	20	21	16	14	1.4	9.9
6	16	14	18	16	14	21	19	21	17	14	5.9	9.8
7	16	14	18	16	14	21	19	20	17	14	12	9.9
8	16	14	18	16	14	43	20	21	17	14	12	9.9
9	16	14	17	16	14	26	20	21	17	14	12	9.9
10	16	13	17	16	16	25	20	21	17	14	11	9.9
11	16	13	17	16	15	25	20	21	16	14	11	9.9
12	16	13	17	16	15	24	20	21	16	14	11	9.8
13	16	13	17	16	16	27	20	20	16	14	11	9.9
14	16	13	17	16	18	24	20	21	16	14	10	9.9
15	16	13	17	16	16	22	21	20	15	14	10	9.8
16	15	13	16	16	17	21	22	20	15	14	10	10
17	15	13	16	15	17	20	22	21	15	14	10	9.9
18	15	13	17	16	16	16	21	20	15	14	10	9.9
19	15	21	17	16	16	16	21	19	15	13	10	9.9
20	15	30	16	16	16	16	21	19	15	12	10	10
21	15	23	16	16	17	16	21	19	14	12	10	10
22	15	20	16	16	17	16	21	19	15	12	10	10
23	15	17	17	16	16	15	20	18	15	12	10	10
24	15	16	17	16	17	15	20	18	15	13	10	10
25	15	15	17	16	17	15	21	18	15	13	10	10
26	15	16	17	16	17	14	21	18	15	13	10	9.6
27	14	16	16	18	17	14	21	18	15	13	10	9.6
28	14	17	16	16	17	14	21	18	14	18	9.8	9.6
29	14	17	16	15	17	15	21	18	14	20	9.8	9.7
30	14	23	16	15		15	21	17	14	6.5	9.8	9.8
31	14		16	15		15		17		2.6	10	
	476.0	474	528	494	461	604	620	608	468	413.1	273.5	296.4
MEAN	15.4	15.8	17.0	15.9	15.9	195.	20.7	19.6	15.6	13.3	8.82	9.88
ACRE-FEET	944.	940.	1,050.	980.	914.	1,200.	1,230.	1,210.	928.	819.	542.	587.

Remarks:

YEAR MEAN 15.7
OR
PERIOD ACRE-FEET 11,360.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No._____

Daily discharge, in second-feet of SAN ANTONIO CREEK AND SOUTHERN CALIFORNIA EDISON COMPANY'S DIVERSION, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.8	9.7	9.1	9.1	373	375	152	110	92	37	29	24
2	9.9	9.3	9.1	9.2	335	343	159	109	91	37	30	24
3	10	9.3	9.2	9.1	304	331	169	109	90	37	30	24
4	10	9.3	9.1	9.0	271	316	158	108	88	36	30	24
5	10	9.3	9.1	9.0	241	282	161	108	85	36	29	23
6	9.9	9.3	9.1	9.0	364	248	159	108	83	35	29	22
7	9.9	9.3	9.1	9.0	343	228	150	107	81	35	29	21
8	9.9	9.3	9.1	9.0	261	204	147	107	78	35	27	21
9	9.6	9.3	9.0	9.0	201	190	144	106	75	34	29	21
10	9.6	9.2	9.0	9.0	164	179	141	106	73	34	29	21
11	9.5	9.2	8.7	9.1	138	164	139	105	71	34	28	21
12	9.8	9.2	8.7	9.2	133	152	137	104	68	33	29	20
13	9.8	9.2	8.6	9.3	131	138	135	103	64	33	29	20
14	9.8	9.3	8.6	11	128	126	133	103	62	32	29	20
15	9.9	10	8.6	11	128	118	131	102	59	31	29	19
16	9.6	9.5	8.6	11	128	118	129	102	57	31	29	19
17	9.6	9.5	8.6	11	126	116	127	102	55	31	29	19
18	9.5	9.5	8.6	11	126	116	124	102	52	30	29	19
19	9.5	8.9	8.5	17	124	116	121	101	50	30	28	18
20	9.5	1.9	8.6	37	124	116	119	101	48	30	28	18
21	9.5	0.7	8.5	685	124	116	118	100	46	30	27	18
22	9.5	2.3	8.4	462	122	116	117	100	45	30	27	17
23	9.5	9.1	8.4	322	174	116	116	99	43	29	26	17
24	9.6	9.0	8.3	522	450	116	115	99	42	29	26	17
25	9.6	9.1	10	4,430	2,070	113	115	98	41	29	26	17
26	9.5	9.0	11	2,400	814	116	114	98	41	32	26	17
27	9.5	9.0	10	1,480	713	118	113	97	40	32	25	17
28	9.5	9.0	9.7	530	425	115	112	97	39	30	25	16
29	9.5	9.1	9.3	440		114	111	96	39	30	25	16
30	9.6	9.1	9.2	412		118	110	95	38	30	25	15
31	9.6		9.2	404		136		94		30	25	
	300.0	254.9	279.0	12314.0	9035	5270	3976	3176	1836	1002	861	585
MEAN	9.68	8.50	9.00	397.	323.	170.	133.	102.	61.2	32.3	27.8	19.5
ACRE-FEET	595.	506.	553.	24,420.	17,920.	10,450.	7,890.	6,300.	3,640.	1,990.	1,710.	1,160.

Remarks:

YEAR OR PERIOD MEAN 107.
ACRE-FEET 77,136

STATION M382-R

SAN DIMAS WASH – METROPOLITAN WATER DISTRICT OUTLET

above Foothill Boulevard

LOCATION: LAT. 34°07'34", LONG. 117°47'41", ON THE RIGHT, (WEST) BANK AT THE INLET STRUCTURE OF THE PAVED CHANNEL AND ABOUT 1,250. FEET ABOVE FOOTHILL BOULEVARD; ABOUT 2. MILES NORTH OF SAN DIMAS. ELEVATION OF OUTLET APPROXIMATELY 1,078.5 FEET.

RECORDER: A CONTINUOUS TOTALIZING RECORDER WITH VENTURI CONTROL WAS IN SERVICE FROM OCTOBER 29, 1968, TO SEPTEMBER 30, 1969.

REGULATION: ENTIRELY REGULATED BY A GATED OUTLET ON THE METROPOLITAN WATER DISTRICT UPPER FEEDER.

RECORDS AVAILABLE: OCTOBER 29, 1968, TO SEPTEMBER 30, 1969.

OPERATION: LOCATED, CONSTRUCTED, AND OPERATED BY THE METROPOLITAN WATER DISTRICT IN COOPERATION WITH THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

MONTHLY DISCHARGE IN ACRE-FEET:

AMOUNTS SHOWN ARE AS OF MIDNIGHT ON THE LAST DAY OF THE MONTH. APPROXIMATE MEAN DAILY FLOWS ARE AVAILABLE AT THE DISTRICT OFFICE.

	1968-69
OCTOBER	411.
NOVEMBER	0
DECEMBER	0
JANUARY	0
FEBRUARY	0
MARCH	0
APRIL	0
MAY	0
JUNE	0
JULY	0
AUGUST	0
SEPTEMBER	0
TOTAL	411.

STATION P3-R

SAN GABRIEL RIVER - WEST FORK above Forks

LOCATION: LAT. 34°14'28", LONG. 117°51'45", ON THE RIGHT (SOUTH) BANK, 0.2 MILE ABOVE RINCON RANGER STATION, 1.5 MILES ABOVE EAST FORK AND ABOUT 13.5 MILES NORTH OF AZUSA. ELEVATION OF ZERO GAGE HEIGHT 1,474.94 FEET.

DRAINAGE AREA: 102. SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND BOULDERS.
CONTROL - CONCRETE DIP CROSSING ABOUT 100 FEET BELOW STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING; HIGH FLOWS FROM CABLE CAR 75 FEET BELOW STATION.

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - FLOW FROM 40.4 SQUARE MILES REGULATED BY COGSWELL DAM; 61.6 SQUARE MILES UNREGULATED.
DIVERSION - NONE.

RECORDS AVAILABLE: DECEMBER 3, 1930 TO SEPTEMBER 30, 1969. RECORDS PRIOR TO DECEMBER 3, 1930 FILED WITH STATION P1-R, SAN GABRIEL RIVER - WEST FORK, 0.5 MILE ABOVE FORKS. RECORDS FROM JULY 12, 1936 TO SEPTEMBER 27, 1938, ARE FROM STATION P3B-R, SAN GABRIEL RIVER - WEST FORK, 400 FEET BELOW NORTH FORK.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 1,440. SECOND-FEET NOVEMBER 19.
MINIMUM: 12. SECOND-FEET SEVERAL DAYS IN SEPTEMBER.

1968-69
MAXIMUM: 25,950. SECOND-FEET FEBRUARY 25.
MINIMUM: 8.0 SECOND-FEET OCTOBER 25.

1930-69
MAXIMUM: 34,000. SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM: 0.3 SECOND-FOOT OCTOBER 17, 1931.

ACCURACY: GOOD, 1967-68; FAIR, 1968-69.

OPERATION: MOVED FROM A PREVIOUS LOCATION BY THE DISTRICT FOR THE PASADENA WATER DEPARTMENT. THIS STATION WAS LATER TAKEN OVER, RECONSTRUCTED, AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY.

76D74M C(b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. P3-R

Daily discharge, in second-feet of SAN GABRIEL RIVER – WEST FORK above Forks, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	71	69	160	94	46	50	50	26	23	20	17	14
2	74	69	146	91	45	48	52	27	23	18	16	14
3	74	65	142	88	45	48	41	27	23	17	15	15
4	74	33	142	76	43	48	36	27	23	16	15	15
5	74	31	133	48	41	48	35	27	23	16	15	15
6	74	31	115	48	41	48	35	27	23	17	15	14
7	74	31	43	48	41	56	35	26	24	17	17	14
8	71	31	42	46	43	203	33	25	26	17	16	14
9	71	31	88	46	61	91	33	26	26	17	16	13
10	74	31	88	45	76	71	33	27	24	17	15	12
11	74	31	88	45	60	64	33	27	23	16	14	12
12	74	31	88	45	57	62	35	30	22	16	14	12
13	67	31	86	45	54	64	35	29	22	17	14	12
14	71	31	70	43	102	60	35	28	20	17	15	13
15	71	31	45	38	86	55	33	27	20	17	15	14
16	69	33	45	38	74	55	35	26	20	17	16	14
17	69	33	46	38	71	55	35	25	20	17	17	14
18	66	35	63	38	69	57	33	23	20	17	17	13
19	66	453	67	38	62	50	31	22	20	17	17	14
20	69	254	62	38	64	48	31	22	20	17	17	14
21	69	502	60	38	64	50	30	23	20	17	17	14
22	71	559	60	38	62	48	29	24	20	16	16	14
23	71	331	64	38	57	45	28	24	19	16	15	14
24	71	179	64	36	57	43	30	27	19	16	15	13
25	71	165	62	36	55	40	29	26	20	16	15	13
26	71	151	62	37	55	38	28	25	20	15	15	12
27	69	142	62	71	53	36	28	24	20	15	15	13
28	69	133	62	58	53	35	29	24	20	16	15	13
29	69	126	65	48	53	35	29	23	20	17	14	14
30	69	181	97	46		33	28	24	20	17	14	15
31	69		94	48		31		24		17	14	
	2196	3854	2511	1530	1720	1715	1007	792	643	518	478	407
MEAN	70.8	128.	81.0	49.4	59.3	55.3	33.6	25.5	21.4	16.7	15.4	13.6
ACRE-FEET	4,360.	7,640.	4,980.	3,030.	3,410.	3,400.	2,000.	1,570.	1,280.	1,030.	948.	807.

Remarks:

YEAR OR PERIOD MEAN 47.5
ACRE-FEET 34,460.

7ED74M Gib 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. P3-R

Daily discharge, in second-feet of SAN GABRIEL RIVER – WEST FORK above Forks for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	14	11	14	707	1,500	340	156	112	74	66	45
2	15	14	11	14	329	1,010	345	154	109	76	66	42
3	16	14	11	13	474	1,160	353	149	109	74	66	46
4	16	14	11	13	466	1,000	276	154	109	62	66	46
5	15	14	11	13	582	762	300	146	103	61	66	46
6	15	14	11	13	1,850	710	363	156	101	60	58	45
7	15	13	11	13	1,910	919	334	171	97	61	55	40
8	16	13	11	12	1,050	851	314	210	95	61	55	43
9	15	13	11	12	978	802	304	183	93	67	55	43
10	16	13	11	12	743	765	309	172	93	67	55	43
11	16	13	12	12	659	717	294	156	93	60	55	43
12	16	13	12	13	608	693	285	156	105	62	51	43
13	15	13	11	14	442	682	272	154	91	60	54	43
14	16	13	11	42	323	532	268	154	95	60	54	43
15	18	18	11	23	337	285	256	151	93	55	52	45
16	26	14	12	20	329	314	248	146	95	51	52	40
17	30	13	12	19	305	314	240	141	93	49	52	40
18	40	13	13	19	316	318	240	137	89	63	54	39
19	48	13	13	68	336	318	233	134	87	76	48	40
20	48	12	13	550	371	323	230	137	83	74	52	42
21	46	12	13	3,060	375	374	275	139	83	74	51	45
22	53	12	13	2,150	501	351	241	139	83	71	49	46
23	52	11	13	1,300	2,260	340	224	129	81	72	51	40
24	11	11	13	2,630	4,490	328	213	132	80	71	51	42
25	10	11	20	12,990	14,370	318	252	129	78	71	52	40
26	11	11	22	12,850	6,570	323	204	125	78	71	45	42
27	11	11	17	4,500	3,700	351	183	125	81	71	45	43
28	12	11	14	1,380	3,200	334	183	120	80	71	45	42
29	12	11	14	1,140		334	164	116	76	62	46	42
30	13	11	14	969		331	159	112	76	66	46	38
31	14		14	831		345		109		66	46	
	673	383	397	44,709	48,581	17,704	7,902	4,492	2,741	2,039	1,659	1,277
MEAN	21.7	12.8	12.8	1,442.	1,735.	571.	263.	145.	91.4	65.8	53.5	42.6
ACRE-FEET	1,330.	760.	790.	88,680.	96,360.	35,120.	15,670.	8,910.	5,440.	4,040.	3,290.	2,530.

Remarks:

YEAR OR PERIOD MEAN 363.
ACRE-FEET 262,900.

STATION P4B-R

SAN GABRIEL RIVER - EAST FORK above Forks

LOCATION: LAT. 34°14'09", LONG. 117°46'18", ON THE RIGHT (NORTH) BANK, 2.5 MILES ABOVE THE WEST FORK AND ABOUT 12 MILES NORTH OF AZUSA. ELEVATION OF ZERO GAGE HEIGHT 1,567.04 FEET.

DRAINAGE AREA: 88.2 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL, AND BOULDERS. CONTROL - CONCRETE STABILIZER WITH 20-FOOT LOW FLOW NOTCH WAS CONSTRUCTED IN NOVEMBER 1947. CONTROL HEIGHT INCREASED 2.0 FEET SEPTEMBER 1955.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING; HIGH FLOWS FROM CABLE CAR 23 FEET ABOVE GAGE.

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: NONE.

RECORDS AVAILABLE: AT STATIONS P4-R (ABOUT 0.6 MILE DOWNSTREAM) AND P4B-R, NOVEMBER 30, 1932, TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 693. SECOND-FEET NOVEMBER 19.
MINIMUM: 12. SECOND-FEET SEPTEMBER 26.

1968-69
MAXIMUM: 21,900. SECOND-FEET JANUARY 25.
MINIMUM: 12.9 SECOND-FEET OCTOBER 23.

1932-69
MAXIMUM: 46,000. SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM: 1.6 SECOND-FEET SEPTEMBER 4, 1961.

ACCURACY: LOW FLOWS - GOOD; HIGH FLOWS - FAIR.

OPERATION: MOVED FROM PREVIOUS LOCATION BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT FOR THE PASADENA WATER DEPARTMENT. THE STATION WAS LATER TAKEN OVER, RECONSTRUCTED, AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOGRAPHICAL SURVEY.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. P4B-R

Daily discharge, in second-feet of SAN GABRIEL RIVER – EAST FORK above Forks, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	28	66	51	44	77	74	53	40	27	23	18
2	34	28	59	51	44	74	73	54	38	25	21	18
3	33	29	55	51	44	69	66	53	34	25	19	20
4	34	28	54	50	45	68	66	50	35	26	18	20
5	34	28	51	49	44	68	66	51	35	29	18	17
6	34	27	49	49	44	69	65	50	36	28	18	16
7	31	27	48	48	44	72	62	50	38	27	18	17
8	31	28	45	48	44	174	61	49	39	24	19	17
9	30	28	45	45	52	98	61	49	40	25	17	17
10	31	28	45	42	78	83	58	48	37	25	16	17
11	32	27	44	41	72	75	57	49	35	25	16	17
12	33	26	44	41	64	77	58	51	34	25	17	17
13	32	26	41	40	82	77	57	50	34	25	16	17
14	31	26	40	39	92	71	55	48	33	23	16	16
15	29	26	41	38	81	71	58	48	33	24	17	16
16	29	26	40	39	78	71	62	45	32	23	17	16
17	29	27	41	40	78	72	65	45	32	22	17	15
18	29	27	58	40	81	71	62	45	32	21	17	15
19	29	239	59	39	83	69	59	42	31	20	19	15
20	29	156	51	39	83	68	58	44	31	22	19	15
21	29	127	48	39	83	68	57	45	30	21	19	15
22	28	96	46	36	81	65	55	45	29	22	19	15
23	28	68	49	35	80	64	53	45	29	22	20	15
24	28	54	51	38	81	64	54	44	28	23	19	15
25	28	49	55	36	81	64	53	42	28	22	17	14
26	28	46	58	39	81	64	53	41	29	20	18	14
27	27	45	59	51	83	62	53	41	30	17	19	14
28	27	49	59	50	83	61	51	40	30	26	19	15
29	28	45	57	46	80	61	51	40	29	38	18	15
30	29	84	54	42		59	51	40	28	34	19	15
31	28		54	45		59		40		27	17	
	935	1548	1566	1347	2010	2265	1775	1437	989	763	562	483
MEAN	30.2	51.6	50.5	43.5	69.3	73.1	59.2	46.4	33.0	24.6	18.1	16.1
ACRE-FEET	1,850.	3,070.	3,110.	2,670.	3,990.	4,490.	3,520.	2,850.	1,960.	1,510.	1,110.	958.

Remarks:

YEAR OR PERIOD MEAN 44.8
ACRE-FEET 31,090.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

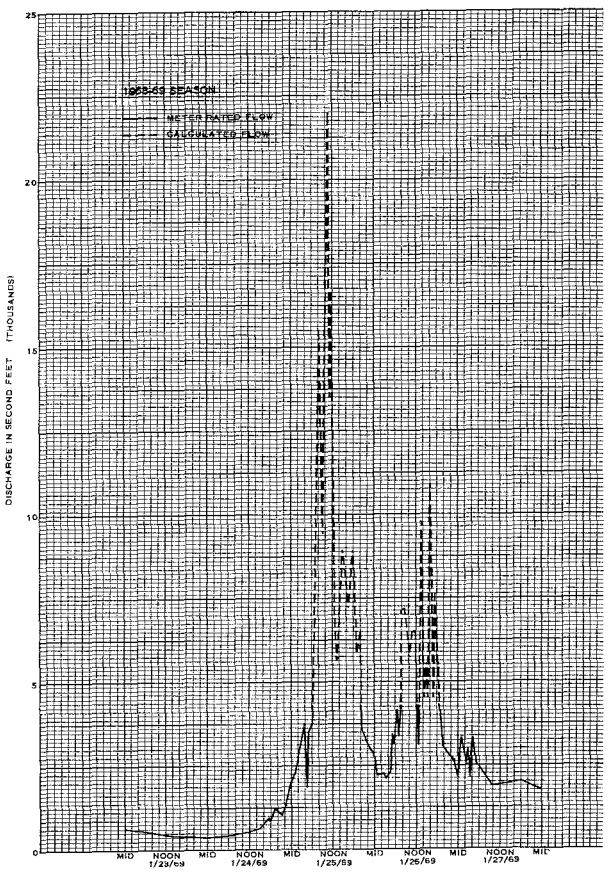
Sta. No. P4B-R

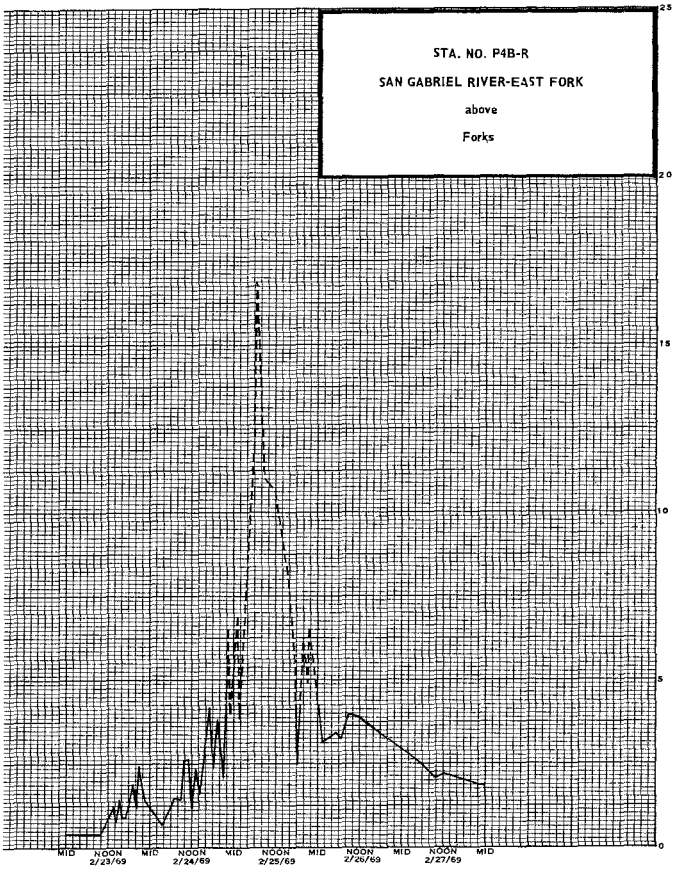
Daily discharge, in second-feet of SAN GABRIEL RIVER – EAST FORK above Forks, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	16	15	17	720	v 1590	488	282	229	137	76	46
2	16	15	16	16	612	1360	460	279	226	138	75	47
3	16	15	16	16	536	1060	495	269	217	125	73	45
4	16	16	15	16	524	942	v 461	266	212	123	72	45
5	16	17	15	16	531	750	505	256	212	121	72	45
6	16	16	15	16	959	732	v 593	266	206	119	69	45
7	16	16	15	16	v 693	710	477	259	201	117	66	44
8	16	15	15	16	v 654	639	v 459	263	201	115	65	46
9	16	15	15	17	v 587	660	v 451	279	195	111	63	44
10	16	14	15	17	519	687	456	285	193	105	61	42
11	17	14	16	17	v 490	580	463	292	187	104	61	42
12	16	15	16	16	473	560	451	296	181	105	64	42
13	15	15	16	18	491	517	416	279	170	105	61	42
14	16	15	15	47	v 508	450	426	266	164	105	60	42
15	16	20	15	32	516	350	416	259	161	102	59	45
16	16	19	16	26	v 468	336	380	256	156	98	58	46
17	15	17	16	22	472	365	375	253	154	94	57	46
18	16	16	16	21	468	385	349	250	151	93	57	45
19	15	15	16	50	440	418	341	247	156	93	57	42
20	15	15	16	307	413	500	328	241	151	91	53	42
21	15	15	16	2110	402	541	328	235	150	88	51	42
22	14	15	16	1080	v 394	512	341	241	146	87	50	42
23	14	15	15	503	842	500	345	250	144	83	49	40
24	13	14	13	725	2280	478	337	250	144	83	48	39
25	14	15	22	6890	8070	462	320	247	142	82	49	39
26	14	14	26	4500	3460	419	306	247	141	80	50	40
27	14	15	21	2150	v 2260	460	296	244	141	82	50	40
28	14	15	20	v 1620	v 1770	514	282	244	140	85	49	40
29	15	15	19	1310		533	279	241	138	80	48	38
30	15	15	18	965		530	282	238	138	79	47	38
31	16		17	854		578		235		76	46	
	475	464	515	23426	30552	19118	11906	8015	5147	3106	1816	1281
MEAN	15.3	15.5	16.6	756.	1,090.	617.	397.	259.	172.	100.	58.6	290.
ACRE-FEET	942.	920.	1,020.	46,460.	60,600.	37,920.	23,620.	15,900.	10,210.	6,160.	3,600.	2,540.

Remarks:

YEAR OR PERIOD MEAN 290.
ACRE-FEET 209,890.





STATION U8-R

SAN GABRIEL RIVER below Morris Dam

LOCATION: LAT. 34°10'11", LONG. 117°53'16", ON THE RIGHT (NORTHWEST) BANK, 1.1 MILES DOWNSTREAM OF MORRIS DAM AND 2.7 MILES NORTHEAST OF AZUSA. ELEVATION OF ZERO GAGE HEIGHT 867.59 FEET.

DRAINAGE AREA: 212.4 SQUARE MILES (REVISED).

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

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

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - ALL FLOWS REGULATED BY COGSWELL, SAN GABRIEL, AND MORRIS DAMS.
DIVERSION - THE AZUSA CONDUIT DIVERTS AT SAN GABRIEL DAM OR AT MORRIS DAM FOR POWER AND SPREADING.

RECORDS AVAILABLE: MAY TO NOVEMBER 1894 AND SEPTEMBER 1895 TO SEPTEMBER 30, 1969.

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 326. SECOND-FEET NOVEMBER 25.
MINIMUM: NO FLOW PART OF YEAR.

1968-69
MAXIMUM: 29,850. SECOND-FEET FEBRUARY 25.
MINIMUM: NO FLOW PART OF YEAR.

1894-69
MAXIMUM: 65,700. SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM: NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED, AND OPERATED BY THE UNITED STATES GEOLOGICAL SURVEY THROUGH SEPTEMBER 1966. OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT SINCE THAT TIME.

REMARKS: AVERAGE DISCHARGE, 74 YEARS, 156. SECOND-FEET (ADJUSTED FOR REGULATION AND DIVERSIONS).

NORMAL UNREGULATED FLOW ADJUSTED FOR STORAGE IN RESERVOIRS, EVAPORATION AND DIVERSION TO AZUSA CONDUIT:

MONTH	1967-68 A.F.	1968-69 A.F.
OCTOBER	3,880.	1,750.
NOVEMBER	9,280.	1,670.
DECEMBER	7,410.	1,990.
JANUARY	5,750.	168,930.
FEBRUARY	7,680.	180,990.
MARCH	9,420.	83,930.
APRIL	6,140.	46,650.
MAY	4,740.	29,780.
JUNE	3,140.	18,170.
JULY	2,720.	11,780.
AUGUST	1,820.	7,080.
SEPTEMBER	1,580.	5,310.
TOTAL	63,560.	558,090.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U8-R

Daily discharge, in second-feet of SAN GABRIEL RIVER below Morris Dam, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	196	42	0	0	0	1.2	0	0	0	0
2	0	0	196	43	0	0	0	4.0	0	0	0	0
3	0	0	196	43	0	0	0	6.6	0	0	0	0
4	0	0	196	25	0	0	0	8.3	0	0	0	0
5	0	0	202	+	0	0	0	9.6	0	0	0	0
6	0	0	208	0	0	0	0	8.9	0	0	0	0
7	0	0	208	0	0	0	0	1.5	0	0	0	0
8	0	0	208	0	0	3.6	0	0.9	0	0	0	0
9	125	0	208	0	0	+	0	+	0	0	0	0
10	250	0	208	0	0	0	0	0	0	0	0	0
11	247	0	208	0	0	10.8	0	0	0	0	0	0
12	244	0	226	0	0	169	0	0	0	168	0	0
13	240	0	236	0	0	116	0	0	0	261	0	0
14	236	0	198	0	0	126	0	0	0	261	0	0
15	233	0	+	6.4	0	240	0	0	0	261	0	0
16	230	0	0	45	0	240	0	0	0	261	0	0
17	230	0	0	46	0	240	0	0	0	199	0	0
18	223	0	0	46	0	227	0	0	0	+	0	0
19	226	0	0	18.9	0	180	0	0	0	0	0	0
20	222	5.3	0	0	0	180	0	0	0	0	0	0
21	222	45	0	0	0	127	0	0	0	0	0	0
22	219	45	0	0	0	0.2	21	0	0	0	0	0
23	219	45	0	0	0	0	43	0	0	0	0	0
24	212	45	0	0	0	0	44	0	0	0	0	0
25	73	172	0	0	0	0	45	0	0	0	0	0
26	0	215	0	0	0	0	29	0	0	0	0	0
27	0	193	0	0	0	0	+	0	0	0	0	0
28	0	193	0	0	0	0	0	0	0	0	0	0
29	0	193	3.7	0	0	0	0	0	0	0	0	0
30	0	196	40	0		0	0	0	0	0	0	0
31	0		42	0		0		0		0	0	
	3,657	1,347.3	2,889.7	315.3	0	1,859.6	182	41.0	0	1,321	0	0
MEAN	118.	44.9	93.2	10.2	0	60.0	6.1	1.32	0	42.6	0	0
ACRE-FEET	7,250.	2,670.	5,730.	625.	0	3,690.	361.	81.3	0	2,620.	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 31.7
ACRE-FEET 23,030.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

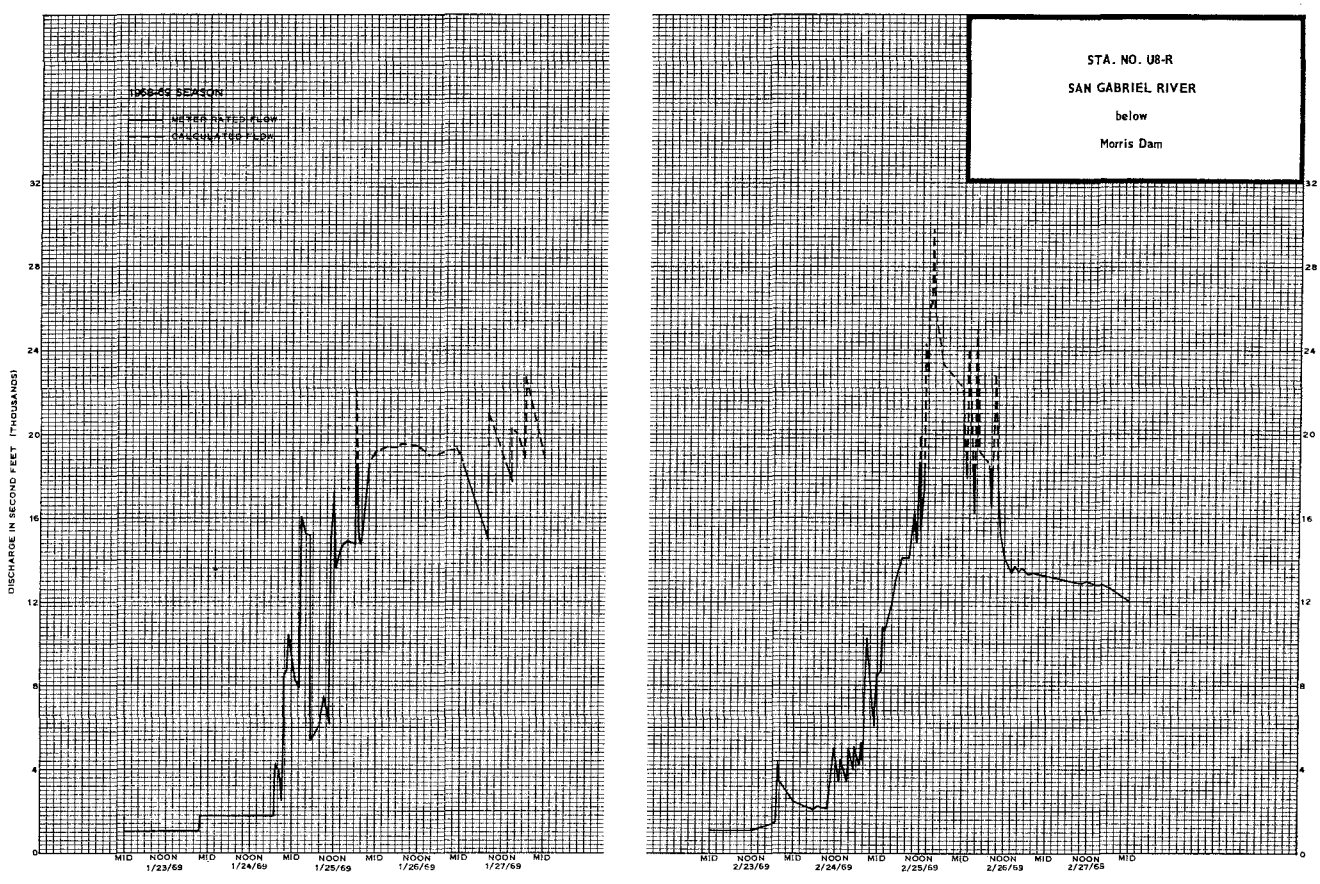
Sta. No. U8-R

Daily discharge, in second-feet of SAN GABRIEL RIVER below Morris Dam, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	573	4,880	684	580	570	165	309	77
2	0	0	0	0	245	2,210	340	654	538	128	289	77
3	0	0	0	0	1,360	446	922	654	504	131	289	76
4	0	0	0	0	170	b 3.0	1,070	654	504	133	289	73
5	0	0	0	0	2,260	b 2.0	1,040	654	501	135	289	73
6	0	0	0	0	5,260	929	1,000	634	501	135	193	73
7	0	0	0	0	5,110	1,640	1,010	612	410	151	78	74
8	0	0	0	0	5,110	1,770	1,060	609	110	172	83	74
9	0	0	0	0	4,030	1,780	959	659	110	205	86	73
10	0	0	0	0	255	1,780	751	659	114	205	87	73
11	0	0	0	0	203	1,800	603	659	112	202	89	74
12	0	0	0	0	1,310	1,860	826	654	112	202	89	73
13	0	0	0	0	1,700	1,960	882	632	112	202	90	74
14	0	0	0	0	892	1,950	816	667	112	202	90	74
15	0	0	0	0	665	1,960	616	669	112	202	92	74
16	0	0	0	0	853	1,930	552	634	112	196	94	58
17	0	0	0	0	1,030	1,930	686	650	114	200	95	53
18	0	0	0	0	1,010	1,260	735	650	165	200	97	69
19	0	0	0	0	995	1,000	715	645	286	200	97	54
20	0	0	0	233	1,040	1,120	715	680	286	202	98	40
21	0	0	0	1,420	1,080	815	710	705	286	202	98	37
22	0	0	0	1,300	1,130	974	720	685	286	294	98	34
23	0	0	0	1,130	1,630	934	759	659	267	334	98	46
24	0	0	0	2,890	4,060	843	826	659	256	315	98	45
25	0	0	0	12,800	18,230	801	782	659	256	315	98	44
26	0	0	0	19,300	16,000	703	684	611	251	318	100	44
27	0	0	0	18,980	12,800	684	669	592	256	318	98	44
28	0	0	0	9,500	10,000	684	640	603	259	321	97	44
29	0	0	0	879		684	699	575	262	321	87	43
30	0	0	0	723		684	668	575	243	321	80	43
31	0		0	578		684		575		321	77	
	0	0	0	69,733	99,551	40,700	23,140	19,807	8,017	6,950	3,952	1,810
MEAN	0	0	0	2,249.	3,555.	1,313.	771.	639.	267.	224.	127.	60.3
ACRE-FEET	0	0	0	138,300.	197,400.	80,730.	45,900.	39,290.	15,900.	13,780.	7,840.	3,590.

Remarks:

YEAR OR PERIOD MEAN 750.
ACRE-FEET 543,000.



STATION F190-R

SAN GABRIEL RIVER at Foothill Boulevard

LOCATION: LAT. 34°06'13", LONG. 117°56'32", ON THE DOWNSTREAM SIDE OF THE FOOTHILL BOULEVARD BRIDGE, TWO MILES WEST OF AZUSA. ELEVATION OF ZERO GAGE HEIGHT 565.50 FEET.

DRAINAGE AREA: 230 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - TRAPEZOIDAL, WITH RIPRAPPED SIDES AND A SAND, GRAVEL, AND ROCK BOTTOM. BOTTOM WIDTH 590 FEET; DEPTH, 12 FEET. CONTROL - GUNITED ROCK STABILIZERS.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING; HIGH FLOWS FROM CABLE CAR ABOUT 900 FEET BELOW STATION.

RECORDER: A CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1967 TO SEPTEMBER 30, 1969.

REGULATION AND DIVERSION: REGULATION - FLOW PARTIALLY REGULATED BY COGSWELL DAM, SAN GABRIEL DAM, AND MORRIS DAM.

DIVERSION - SOME DIVERSIONS USED FOR IRRIGATION, POWER DEVELOPMENT, AND SPREADING.

RECORDS AVAILABLE: MEASUREMENTS STARTING FEBRUARY 22, 1932. RECORDER RECORDS FROM APRIL 25, 1932 TO SEPTEMBER 30, 1969. (FOR RECORDS PRIOR TO FEBRUARY 22, 1932, SEE STATE DIVISION OF WATER RIGHTS BULLETINS.)

EXTREMES OF DISCHARGE:

1967-68
MAXIMUM: 326. SECOND-FEET NOVEMBER 25.
MINIMUM: NO FLOW AT VARIOUS TIMES.

1968-69
MAXIMUM: NOT DETERMINED JANUARY 26.
MINIMUM: NO FLOW AT VARIOUS TIMES.

1932-69
MAXIMUM: 62,000. SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM: NO FLOW AT TIMES EACH YEAR.

ACCURACY: FAIR.

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

75DT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F190-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Foothill Boulevard, for the year ending September 30, 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	3.1	200	48	9.9	7.4	11	3.1	1.5	0	0	0
2	12	0.7	200	52	9.9	7.4	15	3.1	1.3	0	0	0
3	12	2.5	200	52	8.7	7.4	9.9	3.1	1.5	0	0	0
4	12	2.5	205	a 30	7.4	7.4	8.7	2.5	1.3	0	0	0
5	12	2.0	212	15	7.4	7.4	7.4	3.1	1.3	0	0	0
6	12	2.0	218	15	8.7	8.7	6.9	3.1	1.6	0	0	0
7	12	2.0	218	15	8.7	11	6.9	3.1	1.6	0	0	0
8	12	1.8	218	15	8.7	100	6.3	3.1	1.6	0	0	0
9	53	1.8	218	15	11	28	6.3	3.1	1.6	0	0	0
10	185	1.8	218	15	11	20	5.2	3.1	1.5	0	0	0
11	200	1.8	218	15	9.9	15	6.3	3.1	1.5	0	0	0
12	205	1.8	218	15	9.9	119	7.4	2.5	1.5	46	0	0
13	205	1.8	225	15	15	129	7.4	2.5	1.5	160	0	0
14	205	1.8	150	15	21	98	7.4	2.5	1.1	180	0	0
15	205	1.8	20	15	19	225	6.9	2.5	0.7	185	0	0
16	205	1.8	19	18	9.7	225	6.9	2.5	0.9	190	0	0
17	205	1.8	18	18	1.3	225	6.9	2.0	0.7	89	0	0
18	205	1.8	22	18	0.7	212	6.3	2.0	0.1	0	0	0
19	205	62.0	24	16	3.8	190	6.3	2.0	0.2	0	0	0
20	212	23	20	8.4	12	190	5.8	2.0	0.1	0	0	0
21	212	50	16	8.4	11	168	5.8	2.5	+	0	0	0
22	212	45	18	8.4	9.9	20	7.4	2.0	0	0	0	0
23	212	45	16	8.4	8.7	15	5.1	2.0	0	0	0	0
24	205	45	16	8.4	7.4	12	0	2.0	0	0	0	0
25	111	146	15	8.4	7.4	11	0.1	2.0	0	0	0	0
26	9.9	218	14	8.4	6.9	11	1.7	2.0	0	0	0	0
27	6.9	200	14	8.4	7.4	8.7	3.1	2.5	0	0	0	0
28	6.3	205	14	8.4	6.9	7.4	2.5	1.8	0	0	0	0
29	6.3	212	14	9.4	6.3	6.9	3.1	2.5	0	0	0	0
30	5.8	232	24	9.4		6.9	3.1	2.5	0	0	0	0
31	5.8		42	a 9.4		6.9		1.8		0	0	
	3,379	1,517.6	3,244	420.8	265.6	2,106.5	183.1	77.6	23.1	850	0	0
MEAN	109.	50.6	105.	13.6	9.16	68.0	6.10	2.50	0.77	27.4	0	0
ACRE-FEET	6,700.	3,010.	6,430.	835.	727.	4,180.	363.	154.	46.	1,690.	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR MEAN 33.0
OR PERIOD ACRE-FEET 23,940.

75DT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F190-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Foothill Boulevard, for the year ending September 30, 1969

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	b 703	4550	407	539	508	83	184	1.5
2	0	0	0	0	843	3300	365	602	487	50	178	1.5
3	0	0	0	0	1440	971	790	602	427	47	178	1.4
4	0	0	0	0	237	a 157	570	613	427	a 47	172	1.4
5	0	0	0	0	2310	a 157	560	624	427	47	172	1.0
6	0	0	0	0	5620	656	528	613	417	47	141	0.5
7	0	0	0	0	5410	1870	518	592	329	47	26	0.5
8	0	0	0	0	5320	2320	539	592	66	60	9.0	0
9	0	0	0	0	4210	2320	810	602	50	80	10.0	0
10	0	0	0	0	453	2320	706	592	47	a 86	9.0	0
11	0	0	0	0	424	2250	619	592	45	86	9.0	0
12	0	0	0	0	1470	2220	771	581	42	90	5.0	0
13	0	0	0	0	1810	2150	792	592	38	90	6.0	0
14	0	0	0	0	978	2090	724	635	35	90	8.0	0
15	0	0	0	0	741	2090	539	592	38	86	8.0	0
16	0	0	0	0	916	2090	456	602	50	83	6.0	0
17	0	0	0	0	1140	2090	570	624	47	86	5.0	0
18	0	0	0	0	1080	1430	624	635	90	83	3.0	0
19	0	0	0	0	1050	975	613	624	184	83	5.0	0
20	0	0	0	96	1090	1160	624	635	178	83	7.0	0
21	0	0	0	2480	1120	926	646	646	172	86	5.0	0
22	0	0	0	2430	1200	1010	549	624	166	112	1.9	0
23	0	0	0	b 1410	2240	1010	689	602	160	190	1.7	0
24	0	0	0	3740	b 5280	909	724	602	154	184	1.7	0
25	0	0	0	v24560	v20230	860	712	592	154	184	1.9	0
26	0	0	0	b25960	v16970	740	a 660	560	154	184	1.9	0
27	0	0	0	23860	14140	712	640	539	142	184	1.9	0
28	0	0	0	11230	10730	726	620	528	142	184	1.9	0
29	0	0	0	1150		726	a 670	497	142	184	1.9	0
30	0	0	0	908		726	646	497	130	184	1.7	0
31	0		0	b 730		726		508		184	1.7	
	0	0	0	98,554	109,155	46,237	18,681	18,278	5,448	3,314	1,163.2	7.8
MEAN	0	0	0	3,180.	3,900.	1,490.	629.	590.	182.	107.	37.5	0.26
ACRE-FEET	0	0	0	195,500.	216,500.	91,710.	37,410.	36,250.	10,810.	6,570.	2,310.	15.

Remarks:

YEAR MEAN 824.
OR PERIOD ACRE-FEET 597,100.

STATION DATA SUMMARY

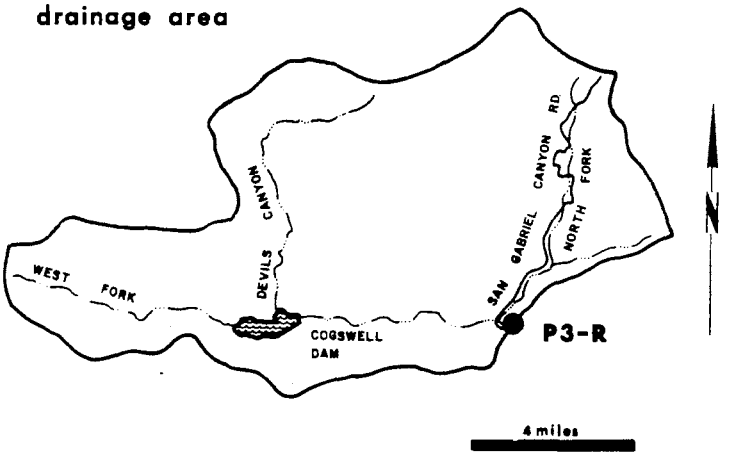
STA. NO. F28-R
BROWNS CREEK AT VARIEL AVENUE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	PEAK DAY	FLOW CFS
1961-62B	336	0	2.7	1960	2	11	782
1962-63	6.9	0	+	32	3	16	55
1963-64	1.4	0	+	3.8	1	22	21
1964-65	14	0	0.1	87	4	8	47
1965-66	202	0	2.4	1700	11	17	2020
1966-67	110	0	1.4	980	12	6	379
1967-68	38	0	0.3	211	11	21	67
1968-69	539	0	6.4	4670	2	25	1720
1969-70	53	0	0.5	378	3	1	227
1970-71	370	0	2.5	1820	11	29	4290
1971-72	24	0	0.2	170	12	24	93

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

STATION NO. P 3 - R
SAN GABRIEL RIVER
West Fork above Forks

drainage area



RECORDER - continuous water stage

METHOD OF MEASUREMENTS - wading or from cable car

DRAINAGE AREA - 102.0 square miles

LOCATION - 1.5 miles above confluence with East Fork

REGULATION - partially regulated by Cogswell Dam

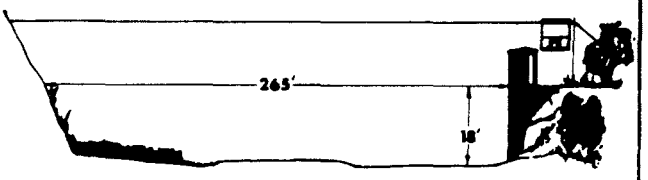
CHANNEL - natural, sand, gravel, and boulders

CONTROL - subject to shifts in natural bottom

LENGTH OF RECORD -
at Station P3-R, December 3, 1930, to July 12, 1938
September 27, 1938, to date
at Station P3B-R, July 12, 1938, to September 27, 1938

REMARKS - for records priar to December 3, 1930, refer to Station P1-R

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO P3-R

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL RIVER - WEST FORK above Forks FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 70

	October	November	December	January	February	March	April	May	June	July	August	September
1	42	39	24	23	24	738	51	33	23	18	15	13
2	43	39	24	23	24	788	46	32	23	18	15	13
3	43	39	25	23	24	486	45	32	23	18	15	13
4	42	39	25	23	24	469	45	32	23	18	15	13
5	35	39	25	23	23	269	43	32	23	17	15	13
6	30	65	25	23	23	280	42	33	23	17	15	12
7	43	78	25	23	23	268	43	33	23	17	15	12
8	43	90	25	23	23	256	42	33	23	17	14	12
9	43	99	25	25	33	248	40	32	24	17	14	13
10	43	99	25	47	210	230	39	32	26	17	14	13
11	42	99	25	38	224	186	39	31	26	17	14	13
12	42	99	25	32	159	146	38	30	26	17	14	13
13	42	97	25	39	126	144	39	29	26	17	14	15
14	40	97	25	38	91	144	40	28	26	17	14	15
15	43	95	25	38	87	139	40	27	25	17	14	15
16	43	95	25	45	85	137	40	27	25	17	13	14
17	43	84	25	42	79	127	40	27	24	16	14	14
18	42	87	25	39	74	129	39	27	23	16	14	14
19	42	87	25	37	45	125	39	27	22	16	14	14
20	40	87	25	36	39	123	39	27	21	16	14	14
21	40	89	25	30	38	120	40	27	20	16	14	14
22	40	91	25	28	36	116	40	25	20	16	14	14
23	40	93	25	27	35	114	38	27	20	16	14	14
24	42	95	24	26	33	109	37	27	20	16	13	14
25	42	64	24	26	27	107	37	27	20	16	13	14
26	42	27	24	26	26	105	37	27	19	16	13	13
27	42	26	23	25	27	101	37	28	19	15	13	13
28	42	24	23	24	625	99	36	29	19	15	13	12
29	42	24	23	24		99	35	28	19	15	13	13
30	42	23	23	24		103	34	27	18	15	13	13
31	42		23	24		92		26		15	13	
MEAN	41.4	70.3	24.5	29.8	81.7	213	40.0	29.2	22.4	16.5	14.0	13.4
ACRE-FEET	2,540	4,180	1,510	1,830	4,540	13,080	2,380	1,790	1,330	1,010	857	797

YEAR OR PERIOD MEAN 49.7

ACRE-FEET 35,840

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

P3-R

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL RIVER - WEST FORK above Forks FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 71

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	13	14	164	111	90	37	31	25	23	[illegible]	[illegible]	[illegible]
2	13	33	151	113	71	37	30	25	23	[illegible]	25	[illegible]
3	13	78	139	108	53	37	29	26	23	26	25	[illegible]
4	13	74	128	105	52	37	28	26	21	[illegible]	25	[illegible]
5	13	111	117	103	52	37	26	26	20	26	25	[illegible]
6	13	146	116	97	51	35	26	30	21	26	25	[illegible]
7	13	139	111	94	49	34	26	31	20	16	25	[illegible]
8	13	134	110	94	48	34	26	28	20	16	25	[illegible]
9	13	120	111	91	47	34	26	26	21	16	24	21
10	13	101	100	90	46	33	26	26	23	15	24	21
11	14	69	93	88	46	33	26	26	23	[illegible]	24	21
12	14	63	88	104	45	33	25	25	22	[illegible]	24	21
13	14	17	84	105	44	57	25	24	21	19	25	20
14	14	15	88	101	44	39	28	24	20	17	25	20
15	15	14	b 75	100	44	37	28	24	20	18	24	21
16	15	14	b 59	98	47	36	28	23	19	19	24	[illegible]
17	14	14	64	107	76	35	35	22	19	19	21	[illegible]
18	14	14	60	113	50	34	33	21	18	[illegible]	23	[illegible]
19	14	14	129	124	44	33	31	21	18	18	24	[illegible]
20	14	14	107	122	42	33	30	21	17	18	24	[illegible]
21	14	14	344	120	41	33	29	22	17	18	[illegible]	[illegible]
22	15	14	162	114	40	33	28	22	16	18	23	22
23	15	14	124	110	40	33	26	22	16	18	23	22
24	15	14	117	105	40	33	26	21	16	[illegible]	22	22
25	15	15	119	103	40	33	26	21	16	17	22	22
26	15	16	114	100	39	33	26	21	16	[illegible]	23	[illegible]
27	15	15	110	97	38	33	26	22	17	17	23	21
28	14	30	107	94	38	33	26	25	17	16	23	21
29	14	1,590	105	93		32	26	24	17	16	23	21
30	14	372	107	91		32	25	24	17	19	24	21
31	14		111	91		32		24		26	24	
MEAN	14.0	110	117	103	48.5	35.0	27.6	24.1	19.3	17.1	23.9	21.8
ACRE-FEET	857	6,530	7,170	6,320	2,690	2,150	1,640	1,480	1,140	1,060	1,470	1,300

YEAR OR PERIOD MEAN 46.7
ACRE-FEET 33,810

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO P3-R

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL RIVER-WEST FORK above Forks FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 72

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	21	12.2	9.6	72	28	19.6	12.8	10.0	8.4	6.4	5.5	23
2	20	11.5	9.6	72	26	18.8	13.2	10.0	8.4	6.6	5.8	23
3	20	12.2	11.5	70	26	18.8	13.2	9.8	8.4	6.6	6.1	25
4	20	11.5	10.2	65	25	17.2	13.2	9.8	8.4	6.6	6.1	23
5	19.5	11.5	10.2	63	29	16.4	12.8	10.0	8.8	6.3	6.0	23
6	19.5	10.8	10.2	63	28	14.8	12.4	10.2	9.2	6.1	5.9	23
7	19.5	10.8	10.2	63	26	14.8	12.6	10.0	9.0	6.1	6.0	20
8	20	10.2	9.6	62	25	14.8	12.6	10.2	9.2	6.1	6.0	8.4
9	23	10.2	10.2	60	23	14.8	13.0	10.2	9.0	6.0	6.1	7.7
10	22	10.8	10.8	60	23	14.8	13.4	10.0	8.6	6.1	19.6	7.6
11	22	10.8	10.8	62	22	14.0	12.4	10.0	8.2	6.2	22	6.6
12	22	14.3	10.2	63	22	15.6	13.8	9.6	8.2	6.3	25	6.5
13	22	12.9	11.5	63	21	18.0	13.8	9.6	8.0	6.4	22	6.4
14	22	12.2	10.8	58	22	18.0	13.4	9.2	8.0	6.3	17.2	6.3
15	23	11.5	10.2	41	29	16.4	13.0	9.2	7.8	6.3	21	6.2
16	24	12.2	10.2	38	23	16.4	12.4	9.2	7.8	6.3	21	6.1
17	25	11.5	10.2	38	22	16.4	12.4	9.4	8.0	6.2	22	6.0
18	22	11.5	10.2	35	21	15.6	13.0	10.0	7.8	6.3	16.4	6.0
19	23	10.8	9.6	33	20	14.8	13.4	10.8	7.8	6.4	19.6	6.1
20	23	10.8	9.6	32	20	14.8	13.0	11.8	8.0	6.5	23	6.0
21	23	11.5	9.6	35	20	14.0	12.6	10.6	8.0	6.4	22	5.8
22	22	11.5	53	33	20	13.6	12.6	10.2	8.6	6.3	22	5.6
23	22	11.5	29	32	20	14.0	11.8	9.8	9.2	6.2	22	5.6
24	25	10.8	423	32	21	14.0	11.4	9.8	8.8	6.0	23	5.6
25	25	10.8	453	30	21	13.6	11.4	10.0	8.2	6.0	23	5.9
26	24	10.2	290	30	20	14.0	11.2	9.8	7.7	5.8	25	5.9
27	24	10.2	162	29	19.6	14.0	10.6	9.6	7.4	5.8	25	5.9
28	24	10.2	89	29	18.8	14.0	10.2	9.2	6.9	5.7	23	5.9
29	23	10.2	67	29	18.8	14.0	10.2	8.8	6.4	5.6	23	5.6
30	13.9	10.2	55	28		13.6	10.0	8.6	6.4	5.5	23	5.5
31	12.2		55	28		13.2		8.6		5.5	23	
MEAN	21.6	11.2	61.0	46.7	22.8	15.4	12.4	9.81	8.15	6.16	17.3	10.1
ACRE-FEET	1,330	669	3,750	2,870	1,310	946	739	603	485	379	1,060	601

YEAR OR PERIOD MEAN 20.3
ACRE-FEET 14,740

STATION DATA SUMMARY

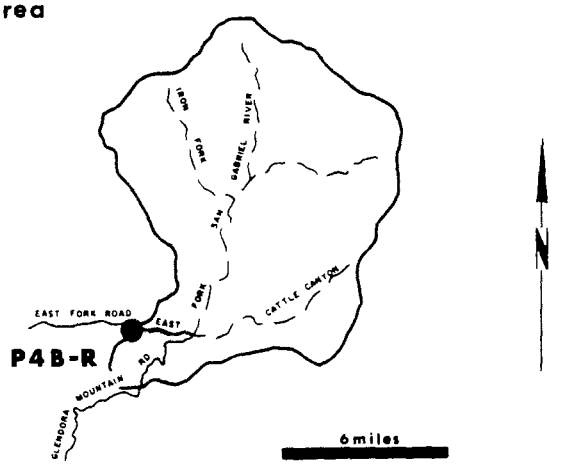
STA. NO. P3-R
SAN GABRIEL RIVER - WEST FORK ABOVE FORKS

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1927-28	704	1.6	17.9	15180	2	4	1620
1928-29	422	0	20.7	14960	4	4	775
1929-30	225	1.9	25.5	18470	3	15	301
1930-31	676	1.2	20.2	14630	4	26	1530
1931-32	598	1.4	76.3	55360	2	9	3790
1932-33	1360	2.5	33.1	23990	1	19	3460
1933-34	3340	1.5	34.5	24990	1	1	5320
1934-35	1180	1.9	77.5	56110	4	8	1840
1935-36	312	2.5	31.8	23070	2	12	752
1936-37	1640	2.7	133	96590	2	14	2000
1937-38	*	13	237	171900E	3	2	34000E
1938-39	1140	7.5	46.5	33660	9	25	2530
1939-40	369	6.5	38.2	27720	1	8	1220
1940-41	2870E	7.0	237	171400	2	20	3000E
1941-42	183	6.5	32.9	23810	12	29	288
1942-43	11300E	6.5	211	153000	1	23	20000E
1943-44	4000	19	144	104500	2	22	5760
1944-45	719	14	51.5	37260	11	11	3950
1945-46	1830	8.0	65.3	47330	3	30	2620
1946-47	2270	7.6	83.0	60120	12	26	4150
1947-48	135	3.0	17.1	12450	4	29	329
1948-49	55	2.3	14.5	10510	1	20	78
1949-50	122	2.2	15.6	11260	12	18	280
1950-51	21	0.7	4.8	3460	4	29	28
1951-52	2690	1.1	115	83500	1	16	7520
1952-53	380	2.0	32.1	23210	12	1	475
1953-54	514	2.2	32.0	23190	1	25	953
1954-55	83	3.8	17.8	12850	4	30	165
1955-56	504	2.8	17.0	12350	1	26	1230
1956-57	597	3.5	18.5	13350	1	13	1670
1957-58	1780	5.4	145	104700	4	3	3570
1958-59	664	6.5	29.2	21150	1	6	2380
1959-60	48	2.7	11.5	8350	1	10	128
1960-61	79	1.2	7.1	5160	11	5	447
1961-62	3800	1.5	83.9	60730	2	11	7830
1962-63	276	2.5	18.9	13720	2	9	2010
1963-64	195	1.9	13.7	9970	6	24	414
1964-65	228	1.7	21.1	15270	4	9	534
1965-66	4000	2.7	160	115600	12	29	13000
1966-67	2320	7.0	143	103600	12	6	4700
1967-68	559	12	47.5	34460	11	19	1400
1968-69	4370	11	363	262900	2	25	26000
1969-70	788	12	49.7	35840	2	28	2370
1970-71	1590	12	46.7	33810	11	29	6230
1971-72	453	5.5	20.3	14740	12	24	791

E = ESTIMATE
* = RECORD INCOMPLETE

STATION NO. P 4B-R
SAN GABRIEL RIVER
East Fork above Forks

drainage area



RECORDER – continuous water stage

METHOD OF MEASUREMENTS – wading or from cable car

DRAINAGE AREA – 88.2 square miles

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

REGULATION – none

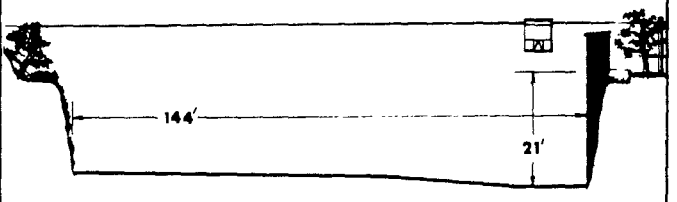
CHANNEL – sand, gravels, and boulders, natural section

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

LENGTH OF RECORD –
at Station P4-R, November 30, 1932, to December 10, 1938
at Station P4B-R, December 10, 1938, to date

REMARKS – the control height was increased 2.0 feet in September, 1955.

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P4B-R

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL RIVER - EAST FORK above Forks FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 70

	October	November	December	January	February	March	April	May	June	July	August	September
1	37	30	27	24	27	346	69	45	34	20	d 18	d 15
2	37	30	27	25	27	287	68	45	33	20	d 17	d 14
3	37	30	28	25	27	146	64	45	32	21	d 17	d 14
4	37	30	28	25	27	133	64	46	32	21	d 17	d 14
5	36	30	28	25	27	138	62	48	31	22	d 16	d 14
6	36	51	28	25	26	117	61	49	30	d 22	d 17	d 14
7	36	60	29	24	26	108	62	50	30	d 21	d 17	d 14
8	35	45	29	24	25	106	64	49	29	d 22	d 16	d 14
9	35	42	29	24	27	106	64	49	30	d 21	d 16	d 13
10	36	40	29	37	60	101	69	50	32	d 20	d 16	d 13
11	36	40	29	32	80	92	72	49	30	d 20	d 16	d 13
12	36	38	28	31	51	88	71	49	30	d 20	d 16	d 15
13	36	37	28	30	46	86	71	49	32	d 20	d 18	d 15
14	36	36	28	29	41	94	68	48	31	d 19	d 19	d 15
15	36	36	28	30	38	101	64	46	30	d 19	d 18	d 15
16	36	34	28	35	34	101	62	44	29	d 19	d 19	d 16
17	36	32	27	37	32	101	62	42	29	d 19	d 27	d 15
18	36	30	27	35	30	99	58	41	28	d 19	d 21	d 15
19	35	29	27	33	29	95	55	40	28	d 18	d 19	d 16
20	35	27	27	32	29	90	53	39	27	d 18	d 18	d 16
21	35	28	26	31	29	87	57	39	27	d 18	d 18	d 15
22	35	28	26	30	29	86	55	38	25	d 18	d 17	d 15
23	34	30	27	29	29	83	51	38	24	d 17	d 17	d 15
24	34	30	27	29	29	84	50	38	23	d 18	d 17	d 16
25	34	30	27	29	27	84	49	39	23	d 18	d 16	d 16
26	34	30	26	29	27	84	49	39	22	d 18	d 16	d 16
27	34	28	26	29	27	84	54	39	22	d 18	d 16	d 16
28	33	27	25	29	144	80	51	40	22	d 18	d 16	d 15
29	31	27	24	29		75	49	39	21	d 18	d 16	d 15
30	30	27	24	28		81	48	38	21	d 18	d 15	d 15
31	30		24	27		78		36		d 18	d 15	
[illegible]	35.0	33.7	27.1	29.1	37.5	111	59.9	43.4	27.9	19.3	17.3	14.9
[illegible]	2,150	2,010	1,670	1,790	2,080	6,830	3,560	2,670	1,660	1,190	1,060	885

YEAR OR PERIOD MEAN 38.0

ACRE-FEET 27,560

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO P4B-R

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL RIVER - EAST FORK above Forks FOR THE WATER YEAR ENDING SEPTEMBER 30, 1971

	October	November	December	January	February	March	April	May	June	July	August	September
1	15	d 16	68	71	59	36	34	31	20	d 18	d 13	d 11
2	15	d 16	61	74	55	34	33	31	20	d 18	d 13	d 11
3	16	d 16	54	69	53	34	32	31	19	d 18	d 13	d 11
4	16	d 16	50	a 66	51	35	31	30	18	d 18	d 13	d 11
5	17	d 16	48	a 64	50	35	30	30	17	d 18	d 13	d 11
6	17	d 16	42	a 59	50	34	30	29	17	d 18	d 13	d 11
7	19	d 16	42	a 55	49	33	31	28	17	d 17	d 13	d 10
8	19	d 16	42	a 54	49	35	32	27	17	d 17	d 13	d 10
9	18	d 16	48	54	48	35	33	26	18	d 17	d 13	d 10
10	18	d 15	48	54	45	35	33	26	19	d 17	d 12	d 10
11	17	d 15	46	53	45	35	33	25	18	d 17	d 13	d 10
12	16	d 15	45	66	46	35	33	25	d 18	d 16	d 12	d 10
13	16	d 15	44	65	46	47	33	25	d 18	d 16	d 12	d 10
14	17	d 15	46	62	46	35	33	25	d 18	d 16	d 12	d 10
15	17	d 15	44	61	46	33	32	25	d 17	d 16	d 12	d 10
16	17	d 15	46	58	53	32	31	25	d 16	d 16	d 12	d 10
17	16	d 15	53	66	74	32	36	23	d 15	d 16	d 12	d 10
18	15	d 15	48	83	61	34	36	22	d 15	d 16	d 12	d 10
19	d 16	d 15	73	102	58	35	34	21	d 16	d 16	d 12	d 10
20	d 16	d 15	49	117	54	34	33	20	d 16	d 16	d 12	d 10
21	d 16	d 15	183	90	50	33	32	20	d 16	d 15	d 11	d 10
22	d 16	d 14	112	80	48	32	31	20	d 17	d 15	d 11	d 10
23	d 16	d 14	86	74	46	32	30	19	d 17	d 15	d 11	10
24	d 16	14	78	72	44	33	30	18	d 18	d 15	d 11	9.9
25	d 17	15	77	71	44	34	31	17	d 18	d 14	d 11	10
26	d 17	20	72	71	45	34	30	17	d 18	d 14	d 11	10
27	d 17	16	66	69	42	35	29	20	d 18	d 14	d 11	10
28	d 17	25	61	68	40	36	29	22	d 18	d 13	d 11	10
29	d 17	474	68	66		36	30	20	d 18	d 13	d 11	10
30	d 16	118	65	64		36	30	20	d 19	d 13	d 11	10
31	d 16		64	61		36		20		d 13	d 11	

MEAN	16.6	34.5	62.1	69.0	49.9	34.7	31.8	23.8	17.4	15.8	12.0	10.2
ACRE-FEET	1,020	2,050	3,830	4,240	2,770	2,130	1,890	1,460	1,040	972	736	607

YEAR OR PERIOD MEAN 31.9
ACRE-FEET 22,740

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO P4B-R

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL RIVER-EAST FORK above Forks FOR THE WATER YEAR ENDING SEPTEMBER 30, 1972

	October	November	December	January	February	March	April	May	June	July	August	September
1	10.5	11.1	11.7	95	39	30	25	18.7	d 15.4	d 12.3	d 8.3	d 8.3
2	10.5	11.7	12.3	105	38	30	22	18.7	d 15.6	11.4	d 8.6	d 9.0
3	9.9	11.1	12.9	134	36	30	23	19.5	d 15.7	11.5	d 9.8	d 9.0
4	9.3	11.1	12.9	81	35	30	23	20	d 15.9	11.4	d 8.9	d 9.0
5	9.3	9.9	13.5	72	38	30	24	19.5	d 16.1	11.2	d 9.0	d 9.0
6	8.9	11.1	13.5	65	35	29	24	19.5	d 16.2	11.0	d 9.1	d 9.1
7	8.9	11.1	12.9	58	35	29	25	19.5	d 16.3	10.9	d 9.2	d 9.2
8	8.9	11.1	11.7	61	35	29	25	18.7	d 16.4	10.8	d 9.0	d 9.3
9	8.4	11.1	11.7	80	35	29	25	18.7	d 16.2	10.6	d 8.7	d 9.4
10	8.0	11.1	12.3	71	35	29	24	18.7	d 16.0	10.5	d 8.5	d 9.4
11	8.0	11.1	12.3	66	33	28	24	18.7	d 15.8	10.4	d 8.3	d 9.4
12	8.0	11.7	12.3	66	32	27	25	18.7	d 15.6	10.3	d 8.7	d 9.3
13	8.0	12.3	12.3	68	31	28	25	17.8	d 15.4	10.3	d 9.1	d 9.2
14	8.0	12.3	12.3	64	31	28	24	17.8	d 15.2	10.3	d 9.5	d 9.1
15	8.9	11.7	12.3	59	31	28	23	d 17.9	d 15.1	10.3	d 9.4	d 9.1
16	11.1	11.7	12.3	57	31	28	21	d 17.9	d 15.1	10.3	d 9.4	d 9.1
17	11.1	11.7	11.7	53	30	27	21	d 17.9	d 15.1	9.9	d 9.3	d 9.1
18	10.5	11.7	11.7	51	30	28	23	d 17.9	d 15.1	9.4	d 9.0	d 9.1
19	11.1	11.7	11.7	49	30	27	23	d 17.9	d 15.1	9.0	d 8.8	d 8.9
20	10.5	11.7	11.7	45	30	27	22	d 18.0	d 15.1	8.6	d 8.5	d 8.7
21	10.5	11.7	11.7	42	31	27	21	d 18.0	d 15.1	8.6	d 8.2	d 8.6
22	10.5	11.7	37	42	32	27	20	d 18.1	d 15.1	8.7	d 8.2	d 8.5
23	10.5	11.7	34	42	32	27	19.5	d 18.1	d 15.1	8.7	d 8.3	d 8.4
24	11.7	11.7	380	42	32	26	20	d 18.2	d 14.0	8.8	d 8.3	d 8.3
25	12.9	11.7	378	41	31	26	20	d 18.2	d 13.0	8.6	d 8.3	d 8.2
26	12.3	11.7	319	41	31	26	19.5	d 17.8	d 12.0	8.4	d 8.3	d 8.2
27	12.3	11.7	202	41	30	26	19.5	d 17.4	d 11.8	8.2	d 8.3	d 8.2
28	12.9	11.7	145	40	30	26	19.5	d 17.0	d 11.5	8.3	d 8.3	d 8.2
29	12.3	11.7	116	39	30	26	19.5	d 16.6	d 11.3	8.4	d 8.3	d 8.2
30	11.7	11.7	102	39		26	19.5	d 16.2	d 11.2	8.5	d 8.3	d 8.2
31	11.1		97	39		25		d 15.8		8.5	d 8.3	

MEAN	10.2	11.5	66.7	59.6	32.7	27.7	22.3	18.2	14.8	9.78	8.68	8.82
ACRE-FEET	628	684	4,100	3,670	1,880	1,700	1,330	1,120	878	601	534	525

YEAR OR PERIOD MEAN 24.4
ACRE-FEET 17,650

STATION DATA SUMMARY

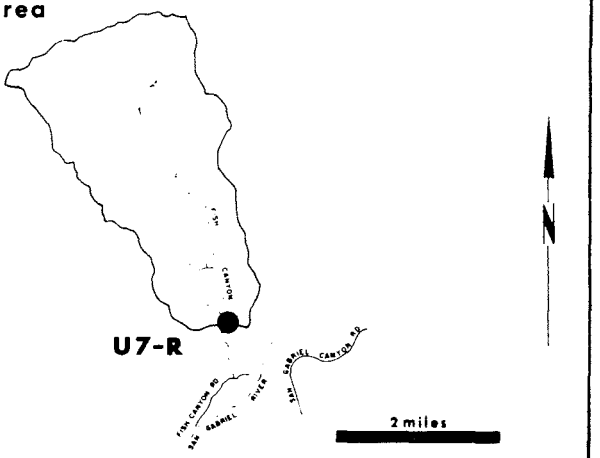
STA. NO. F48-R
SAN GABRIEL RIVER - EAST FORK ABOVE FORKS

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1932-33	*	*	*	18990*	1	19	835
1933-34	6210	4.5	47.3	34320	1	1	8500
1934-35	638	4.5	85.4	61840	4	8	1080
1935-36	428	8.0	40.7	29590	2	11	1290
1936-37	1440	9.0	148	107400	2	14	2180
1937-38	10000E	20	208	150800	3	2	46000E
1938-39	303	14	43.6	31590	12	18	716
1939-40	430	14	42	30500	1	8	1360
1940-41	1110	12	183	132400	2	20	1870
1941-42	130	12	34.9	25230	8	10	349
1942-43	5800E	11	160	116100	1	23	25000
1943-44	1290	21	113	81900	2	22	2410
1944-45	693	20	72.9	52750	11	11	2810
1945-46	1520	19	71.8	52000	12	21	2760
1946-47	1160	13	66.6	48300	12	26	1900
1947-48	133	6.9	21.3	15490	4	29	210
1948-49	64	6.3	20.3	14700	4	24	70
1949-50	168	5.4	21.5	15540	2	6	248
1950-51	22	1.7	8.5	6140	4	28	39
1951-52	833	2.4	109	79300	1	16	1110
1952-53	61	5.2	20.2	14640	12	2	116
1953-54	550	5.2	51.6	37320	1	25	1690
1954-55	105	12	36.0	26090	11	11	203
1955-56	476	11	30.6	22210	1	26	1020
1956-57	479	8.0	32.6	23630	1	13	1060
1957-58	1530	13	156	112700	4	3	2720
1958-59	345	8.0	29.5	21360	2	16	947
1959-60	62	4.4	15.9	11400	4	28	94
1960-61	57	1.7	9.7	7060	11	12	112
1961-62	1760	2.3	72.7	52610	2	11	3600
1962-63	186	4.7	17.5	12680	2	9	607
1963-64	102	5.0	19.7	14290	1	22	202
1964-65	184	5.4	29.2	21170	4	9	274
1965-66	2530	8.4	131	94660	12	29	9760
1966-67	3190	14	153	110900	12	6	6200
1967-68	239	14	44.8	31090	11	19	693
1968-69	8070	13	290	209900	1	25	21900
1969-70	346	13	38.0	27560	3	1	590
1970-71	474	9.9	31.5	22740	11	29	1490
1971-72	380	8.0	24.3	17650	12	24	759

E = ESTIMATE
* = RECORD INCOMPLETE

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

drainage area



RECORDER – continuous water stage

METHOD OF MEASUREMENTS – wading

DRAINAGE AREA – 6.36 square miles

LOCATION – 0.8 miles upstream of mouth of canyon and 3.0 miles northeast of Duarte

REGULATION – none

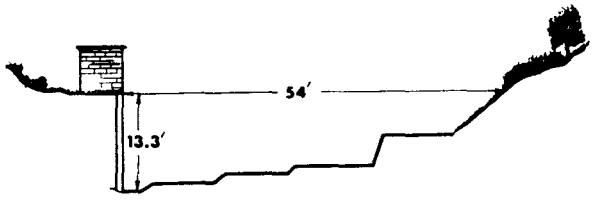
CHANNEL – natural, rock and gravel

CONTROL – concrete control

LENGTH OF RECORD – July to September 1916
July 1917 to date

REMARKS – operated and maintained by USGS until October 1, 1971; records for 1969-70 and 1970-71 seasons were furnished by USGS

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO U7-R

DAILY DISCHARGE IN SECOND-FEET OF FISH CREEK above Mouth of Canyon FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 70

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	2.5	1.6	2.0	1.8	2.4	98	5.9	4.3	2.7	2.4	1.2	.9
2	2.4	1.7	2.2	1.8	2.4	92	5.4	4.2	2.6	2.3	1.1	.9
3	2.5	1.7	2.3	1.8	2.4	32	5.4	4.1	2.6	2.3	1.1	.9
4	2.4	1.8	2.3	1.8	2.4	33	5.4	4.3	2.6	2.3	1.1	.9
5	2.0	1.9	2.3	1.9	2.4	43	5.3	4.4	2.6	2.2	1.1	.9
6	1.9	13	2.3	1.9	2.4	26	5.2	4.4	2.9	2.1	1.0	.9
7	1.8	12	2.1	1.9	2.4	17	5.0	4.5	2.9	2.1	.8	.9
8	1.9	2.0	2.0	1.9	2.7	15	4.8	4.6	2.9	2.1	.9	.9
9	1.9	1.9	2.0	1.9	2.4	14	4.7	4.7	2.7	2.1	.9	.9
10	1.9	1.9	1.9	5.1	41	11	4.6	4.7	2.7	2.0	.9	.9
11	1.9	1.9	1.9	2.7	21	10	4.7	4.5	2.7	1.9	1.0	.9
12	1.9	1.9	1.9	2.3	5.1	9.4	4.6	4.5	2.7	1.9	1.0	.9
13	1.9	1.8	1.9	2.0	4.3	9.1	4.5	4.4	2.9	1.9	1.0	.9
14	1.8	1.8	1.9	2.2	4.4	8.6	4.4	4.2	2.8	1.9	.9	.9
15	1.9	1.8	1.9	2.2	4.5	8.4	4.3	4.1	3.0	1.9	.9	.9
16	1.9	2.5	1.9	3.9	4.5	7.9	4.2	4.2	3.0	1.8	.8	.9
17	1.9	1.9	1.9	3.3	4.4	7.7	4.2	4.3	3.0	1.8	.8	.9
18	1.9	1.9	2.0	2.6	4.4	7.4	4.1	4.2	3.0	1.7	.8	.9
19	1.8	1.8	2.0	2.5	4.3	7.4	4.0	4.1	3.0	1.7	.8	.9
20	1.8	1.8	2.1	2.5	4.6	7.3	4.0	4.1	2.9	1.6	.8	.9
21	1.8	1.8	2.2	2.5	4.6	7.2	3.9	4.1	2.9	1.4	.8	.9
22	1.8	1.7	2.3	2.5	4.4	7.0	3.9	4.1	2.9	1.3	.8	.9
23	1.7	1.7	2.3	2.5	4.1	6.9	3.8	4.1	2.9	1.3	.8	.9
24	1.8	1.7	2.2	2.5	3.7	6.7	3.8	4.1	2.9	1.3	.8	.9
25	1.8	1.6	2.2	2.5	3.6	6.6	3.9	4.1	2.8	1.3	.8	.9
26	1.8	1.6	2.1	2.5	3.7	6.5	4.0	4.1	2.7	1.4	.8	.9
27	1.8	1.6	1.8	2.5	3.7	6.4	4.5	3.4	2.5	1.4	.9	.9
28	1.7	1.7	1.7	2.5	99	6.3	4.7	3.3	2.5	1.4	.9	.9
29	1.7	1.8	1.7	2.5		6.0	4.4	4.3	2.5	1.3	.9	.9
30	1.7	1.8	1.8	2.5		6.2	4.3	3.9	2.5	1.3	.9	.9
31	1.6		1.8	2.4		6.5		2.9		1.3	.9	
MEAN	1.91	2.52	2.03	2.43	8.97	17.3	4.53	4.17	2.78	1.76	.90	.91
ACRE-FEET	117	150	125	150	498	1,060	270	256	165	108	55	54

YEAR OR PERIOD MEAN 4.16
ACRE-FEET 3,010

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO U7-R

DAILY DISCHARGE IN SECOND-FEET OF FISH CREEK above Mouth of Canyon FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 71

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	.9	1.3	8.5	5.7	3.3	2.7	2.2	3.2	1.6	1.2	.8	.6
2	1.0	1.3	12	5.7	3.3	2.7	2.2	3.2	1.6	1.2	.7	.6
3	1.1	1.3	7.7	5.4	3.1	2.8	2.2	3.4	1.6	1.1	.7	.6
4	1.2	1.3	6.9	5.1	2.9	3.0	2.1	3.4	1.6	1.1	.7	.6
5	1.3	1.3	6.8	4.8	2.9	3.1	2.1	3.5	1.5	1.1	.7	.6
6	1.5	1.3	6.6	4.2	3.0	3.0	2.1	5.0	1.5	1.1	.7	.6
7	1.5	1.4	7.0	4.1	3.8	3.0	2.1	4.3	1.5	1.1	.7	.6
8	1.4	1.4	7.8	3.9	3.7	3.0	2.3	3.2	1.4	1.1	.7	.6
9	1.3	1.4	10	3.7	3.4	3.1	2.4	2.6	1.4	1.1	.7	.6
10	1.2	1.4	8.6	3.6	3.2	3.2	2.4	2.1	1.5	1.1	.7	.6
11	1.3	1.4	7.9	3.5	3.0	3.1	2.0	2.2	1.4	1.1	.7	.6
12	1.3	1.5	7.4	8.8	2.8	3.1	2.0	2.9	1.4	1.1	.7	.6
13	1.4	1.7	7.4	7.2	2.7	10	2.0	2.8	1.4	1.0	.7	.6
14	1.5	1.5	8.0	6.1	2.5	3.6	2.4	2.8	1.3	1.0	.7	.6
15	1.6	1.4	7.5	5.6	6.7	3.4	2.4	2.7	1.3	1.0	.7	.6
16	1.5	1.4	8.4	5.2	14	3.3	2.6	2.6	1.3	1.0	.7	.6
17	1.4	1.5	11	5.0	24	3.1	3.9	1.8	1.3	.9	.7	.6
18	1.4	1.5	9.4	5.3	16	3.0	3.3	1.7	1.3	.9	.7	.6
19	1.4	1.6	19	4.9	11	2.9	3.1	1.6	1.2	.9	.7	.6
20	1.5	1.6	12	4.8	8.3	2.9	3.1	1.6	1.2	.9	.7	.6
21	1.5	1.7	55	4.8	6.6	2.7	3.3	1.8	1.2	.8	.7	.6
22	1.6	1.7	23	4.6	5.4	2.7	3.1	1.7	1.2	.8	.7	.6
23	1.6	1.6	16	4.4	4.5	2.6	3.0	1.7	1.2	.8	.7	.6
24	1.7	1.6	14	4.2	3.8	2.5	3.2	1.7	1.2	.8	.7	.6
25	1.7	1.8	12	4.1	3.5	2.5	3.2	1.5	1.2	.8	.7	.6
26	1.6	3.2	9.9	3.9	3.2	2.4	3.2	1.5	1.2	.8	.7	.6
27	1.5	2.3	8.0	3.7	3.0	2.4	3.2	1.5	1.2	.8	.7	.6
28	1.4	10	7.0	3.6	2.8	2.4	3.2	2.1	1.2	.8	.7	.6
29	1.4	93	6.2	3.4		2.3	3.3	1.8	1.2	.8	.7	.6
30	1.3	16	5.8	3.3		2.3	3.2	1.7	1.2	.8	.7	.6
31	1.3		5.5	3.2		2.3		1.6		.8	.7	
MEAN	1.39	5.38	11.0	4.70	5.59	3.07	2.69	2.43	1.34	.97	.68	.58
ACRE-FEET	86	320	679	289	310	189	160	149	80	59	42	35

YEAR OR PERIOD MEAN 3.31
ACRE-FEET 2,400

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO U7-R

DAILY DISCHARGE IN SECOND-FEET OF FISH CREEK above Mouth of Canyon FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 72

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	b 0.5	b 1.0	0.6	5.6	1.6	e 1.1	e 0.5	e 1.0	e 0.4	0.2	0.2	0.5
2	b 0.5	b 1.0	0.6	5.3	1.6	e 1.1	e 0.5	e 1.0	e 0.4	0.2	0.2	0.5
3	b 0.5	b 1.0	0.6	5.1	1.6	e 1.1	e 0.5	e 1.0	e 0.4	0.2	0.2	0.5
4	b 0.5	b 0.9	0.6	4.5	1.5	e 1.1	e 0.5	e 1.0	e 0.3	0.2	0.2	0.6
5	b 0.5	b 0.9	0.6	3.8	1.8	e 1.1	e 0.5	e 1.0	e 0.3	0.2	0.2	0.2
6	b 0.5	b 0.9	0.6	3.6	1.6	e 1.1	e 0.5	e 0.9	e 0.3	0.2	0.2	0.3
7	b 0.5	b 0.8	0.6	3.1	1.6	e 1.1	e 0.5	e 0.9	e 0.3	0.2	0.2	0.3
8	b 0.5	b 0.8	0.6	2.6	1.5	e 1.1	e 0.5	e 0.8	e 0.3	0.2	0.2	0.3
9	b 0.5	b 0.8	0.6	2.5	e 1.5	e 1.1	e 0.5	e 0.8	e 0.3	0.3	0.2	0.4
10	b 0.5	b 0.8	0.6	2.3	e 1.5	e 1.1	e 0.5	e 0.8	e 0.3	0.3	0.2	0.8
11	b 0.5	b 0.7	0.6	2.3	e 1.5	e 1.0	e 0.5	e 0.7	e 0.3	0.3	0.3	0.4
12	b 0.5	b 0.7	0.6	2.3	e 1.4	e 1.0	e 0.5	e 0.7	e 0.7	0.3	0.4	0.2
13	b 0.5	b 0.7	0.7	2.2	e 1.4	e 1.0	e 0.5	e 0.7	e 0.7	0.3	0.9	0.3
14	b 0.6	b 0.6	0.7	2.2	e 1.4	e 1.0	e 0.5	e 0.6	e 0.6	0.4	0.9	e 0.3
15	b 0.6	b 0.6	0.8	2.2	e 1.4	e 1.0	e 0.5	e 0.6	e 0.6	0.4	0.8	e 0.3
16	b 0.6	b 0.6	0.8	2.1	e 1.4	e 0.9	e 0.5	e 0.5	e 0.5	0.4	0.8	e 0.3
17	b 0.7	b 0.6	0.8	2.0	e 1.3	e 0.8	e 0.5	e 0.5	e 0.5	0.4	0.7	e 0.3
18	b 0.7	b 0.6	0.8	2.0	e 1.3	e 0.8	e 0.5	e 0.5	e 0.4	0.4	0.5	e 0.3
19	b 0.7	b 0.6	0.8	2.0	e 1.3	e 0.7	e 0.5	e 0.5	e 0.4	0.5	0.5	e 0.3
20	b 0.7	b 0.6	0.8	2.0	e 1.2	e 0.7	e 1.0	e 0.5	e 0.3	0.8	0.5	e 0.3
21	b 0.8	b 0.6	0.8	2.0	e 1.2	e 0.7	e 1.0	e 0.4	e 0.3	0.7	0.4	e 0.3
22	b 0.8	b 0.6	1.7	1.9	e 1.2	e 0.6	e 1.0	e 0.4	e 0.3	0.6	0.3	e 0.3
23	b 0.8	b 0.6	0.9	1.9	e 1.2	e 0.6	e 1.0	e 0.4	e 0.3	0.4	0.3	e 0.3
24	b 0.9	b 0.6	23	1.9	e 1.2	e 0.6	e 1.0	e 0.4	e 0.2	0.2	0.3	e 0.3
25	b 0.9	b 0.6	12.4	1.8	e 1.2	e 0.6	e 1.0	e 0.4	e 0.2	0.2	0.6	e 0.3
26	b 1.0	b 0.6	4.2	1.8	e 1.2	e 0.6	e 1.0	e 0.4	e 0.2	0.2	0.6	e 0.3
27	b 1.0	b 0.6	10.1	1.7	e 1.2	e 0.6	e 1.0	e 0.4	e 0.2	0.2	0.8	e 0.3
28	b 1.0	b 0.6	10.5	1.7	e 1.2	e 0.6	e 1.0	e 0.4	0.2	0.2	0.6	e 0.3
29	b 1.0	0.6	9.8	1.7	e 1.2	e 0.6	e 1.0	e 0.4	0.2	0.2	0.4	e 0.3
30	b 1.0	0.6	7.6	1.7		e 0.6	e 1.0	e 0.4	0.2	0.2	0.4	e 0.3
31	b 1.0		6.6	1.7		e 0.6		e 0.4		0.1	0.4	
MEAN	0.69	0.71	3.26	2.56	1.39	0.86	0.68	0.63	0.35	0.30	0.43	0.35
ACRE-FEET	42	42	200	158	80	53	41	38	21	19	27	21

YEAR OR PERIOD MEAN 1.02
ACRE-FEET 742

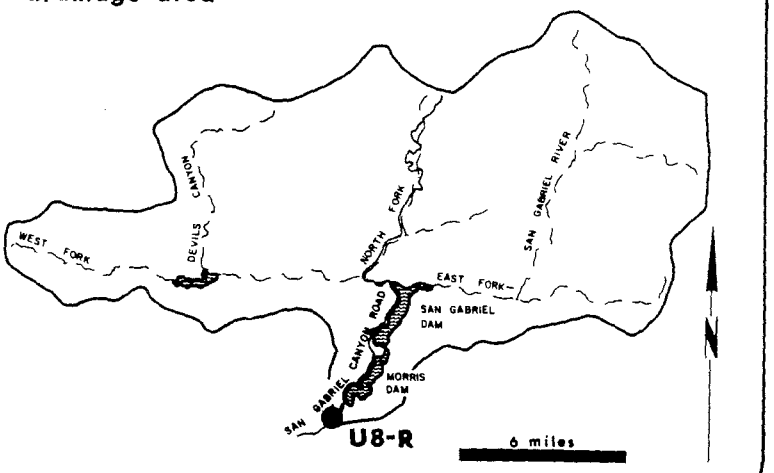
STA. NO. U7-R
FISH CREEK ABOVE MOUTH OF CANYON

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

N.D. = NOT DETERMINED
E = ESTIMATE

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

drainage area



RECORDER – continuous water stage

METHOD OF MEASUREMENTS – wading or from cable car

DRAINAGE AREA – 212.4 square miles

LOCATION – 1.1 miles downstream of Morris Dam, 2.7 miles northeast of Azusa

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

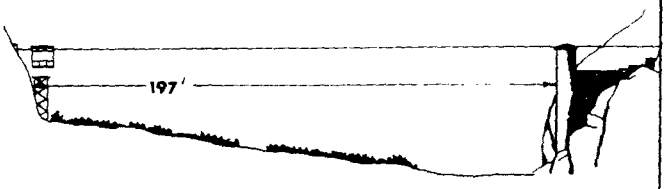
CHANNEL – gravel and boulders, natural section

CONTROL – channel forms control

LENGTH OF RECORD – May 1894 to date

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

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO U8-R

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL RIVER below Morris Dam FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 70

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	45	74	77	78	e 2.3	1,060	99	7.4	0	0	0	0
2	53	73	77	64	e 2.3	986	46	6.8	0	0	0	0
3	53	73	77	48	e 2.2	777	2.5	b 6.5	0	0	0	0
4	53	73	77	47	e 2.1	511	+	6.2	0	0	0	0
5	54	73	77	47	e 2.0	252	0	5.9	0	0	0	0
6	54	74	77	47	e 2.0	380	0	5.5	0	0	0	0
7	56	71	77	47	e 2.0	486	0	5.0	0	0	0	0
8	54	70	77	31	e 2.0	486	0	5.0	0	0	0	0
9	54	70	77	b 12.0	e 2.0	459	0	5.0	0	0	0	0
10	54	69	77	b 11.2	e 7.0	462	0	5.0	0	0	0	0
11	54	69	77	b 10.4	e 5.0	479	0	5.0	0	0	0	0
12	56	69	76	b 9.6	e 2.0	449	0	5.0	0	0	0	0
13	56	70	76	b 8.8	e 2.0	445	0	5.0	0	0	0	0
14	56	70	76	b 8.0	e 2.0	445	0	5.0	0	0	0	0
15	57	71	76	b 7.0	e 3.0	449	0	4.0	0	0	0	0
16	57	71	74	e 6.4	e 4.0	391	1.0	3.0	0	0	0	0
17	58	71	74	e 5.8	e 5.0	230	103	2.0	0	0	0	0
18	59	71	74	e 5.2	e 5.0	204	81	1.0	0	0	0	0
19	59	71	74	e 4.6	e 5.0	204	46	0	0	0	0	0
20	60	73	76	e 4.0	e 5.0	202	44	0	0	0	0	0
21	60	74	74	e 3.4	e 7.0	202	40	0	0	0	0	0
22	60	74	74	e 2.5	e 7.5	199	42	0	0	0	0	0
23	60	74	73	e 2.5	e 7.5	199	31	0	0	0	0	0
24	60	74	74	e 2.5	e 7.5	196	24	0	0	0	0	0
25	59	74	76	e 2.5	e 7.5	196	19.3	0	0	0	0	0
26	58	74	78	e 2.5	e 7.5	196	16.8	0	0	0	0	0
27	58	74	80	e 2.5	7.5	188	17.6	0	0	0	0	0
28	66	76	78	e 2.5	48	173	18.1	0	0	0	0	0
29	76	77	80	e 2.5		173	13.0	0	0	0	0	0
30	76	77	80	e 2.4		153	9.9	0	0	0	0	0
31	74		78	e 2.4		101		0		0	0	
MEAN	58.4	72.5	76.4	17.1	5.81	366.3	21.8	2.84	0	0	0	0
ACRE-FEET	3,590	4,310	4,700	1,050	323	22,520	1,300	175	0	0	0	0

YEAR OR PERIOD MEAN 52.4
ACRE-FEET 37,970

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO U8-R

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL RIVER below Morris Dam FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 71

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	404	135	0	0	0	0	0	0	e 8.1
2	0	0	0	404	135	0	0	0	0	0	0	e 13.0
3	0	0	0	423	135	0	0	0	0	0	0	e 4.9
4	0	0	0	434	135	0	0	0	0	0	0	0
5	0	0	0	430	78	0	0	0	0	0	0	0
6	0	0	0	427	0	0	0	0	0	0	0	0
7	0	0	0	427	0	0	0	0	0	0	0	0
8	0	0	0	374	0	0	0	0	0	0	0	0
9	0	0	0	302	0	0	0	0	0	0	0	0
10	0	0	0	246	0	0	0	0	0	0	0	0
11	0	0	0	106	0	0	0	0	0	0	0	0
12	0	0	0	69	0	0	0	0	0	0	0	0
13	0	0	0	68	0	0	0	0	0	0	0	0
14	0	0	0	117	0	0	0	0	0	0	0	0
15	0	0	35	146	0	0	0	0	0	0	0	0
16	0	0	178	135	0	0	0	0	0	0	0	0
17	0	0	153	143	0	0	0	0	0	0	0	0
18	0	0	71	141	0	0	0	0	0	0	0	0
19	0	0	74	141	0	0	0	0	0	0	0	0
20	0	0	73	141	0	0	0	0	0	0	0	0
21	0	0	80	139	0	0	0	0	0	0	0	0
22	0	0	74	139	0	0	0	0	0	0	0	0
23	0	0	257	139	0	0	0	0	0	0	0	0
24	0	0	408	139	0	0	0	0	0	0	0	0
25	0	0	408	137	0	0	0	0	0	0	0	0
26	0	0	408	137	0	0	0	0	0	0	0	0
27	0	0	404	137	0	0	0	0	0	0	0	0
28	0	0	404	137	0	0	0	0	0	0	0	0
29	0	0	404	137		0	0	0	0	0	0	0
30	0	0	404	137		0	0	0	0	0	0	0
31	0		404	135		0		0		0	0	
MEAN	0	0	137	213	22.1	0	0	0	0	0	0	0.87
ACRE-FEET	0	0	8,410	13,070	1,230	0	0	0	0	0	0	52

YEAR OR PERIOD MEAN 31.4
ACRE-FEET 22,760

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO U8-R

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL RIVER below Morris Dam FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 72

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	34	0	0	0	0	0	0	0	0
2	0	0	0	35	0	0	0	0	0	0	0	0
3	0	0	0	80	0	0	0	0	0	0	0	0
4	8.6	0	0	133	0	0	0	0	0	0	0	0
5	13.5	0	0	231	0	0	0	0	0	0	0	0
6	3.4	0	0	296	0	0	0	0	0	0	0	0
7	0	0	0	296	0	0	0	0	0	0	0	0
8	0	0	0	299	75	0	0	0	0	0	0	0
9	0	0	0	299	146	0	0	0	0	0	0	0
10	0	0	0	299	117	0	0	0	0	0	0	0
11	0	0	0	299	114	0	0	0	0	0	0	0
12	0	0	0	299	110	0	0	0	0	0	0	0
13	0	0	0	299	110	0	0	0	0	0	0	0
14	0	0	0	299	110	0	0	0	0	0	0	0
15	0	0	0	299	110	0	0	0	0	0	8.7	0
16	0	0	0	299	110	0	0	0	0	0	9.8	0
17	0	0	0	131	110	0	0	0	0	0	0	0
18	0	0	0	0	112	0	0	0	0	0	0	0
19	0	0	0	0	112	0	0	0	0	0	0	0
20	0	0	0	0	114	0	0	0	0	0	0	0
21	0	0	0	0	93	0	0	0	0	0	0	0
22	0	0	+	0	58	0	0	0	0	0	0	0
23	0	0	+	0	0	0	0	0	0	0	0	0
24	0	0	4.0	0	0	0	0	0	0	0	0	0
25	0	0	+	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	5.2	0	0	0	0	0	0	0	0	0
28	0	0	+	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		5.0	0		0		0		0	0	
MEAN	0.89	0	0.46	127	55.2	0	0	0	0	0	0.60	0
ACRE-FEET	55	0	28	7,790	3,180	0	0	0	0	0	37	0

YEAR OR PERIOD MEAN 15.3
ACRE-FEET 11,090

STATION DATA SUMMARY

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

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1895-96	134	0	N.D.	N.D.			N.D.
1896-97	1760	0	95.6	69200			N.D.
1897-98	1600	0	9.6	6920			N.D.
1898-99	15	0	0.1	74			N.D.
1899-00	49	0	0.4	272			N.D.
1900-01	5170	0	94.1	68100	2	5	6250
1901-02	318	0	4.3	3100			N.D.
1902-03	2940	0	104	74900			N.D.
1903-04	1070	0	9.3	6720			N.D.
1904-05	2940	0	172	124000			N.D.
1905-06	7950	0	262	190000			N.D.
1906-07	6730	0	406	293000			N.D.
1907-08	1160	0	46.4	33700			N.D.
1908-09	7030	0	197	143000			N.D.
1909-10	12400	0	137	99100	1	1	13900
1910-11	9100	0	321	231000	3	10	13500
1911-12	2950	0	55.5	40300			N.D.
1912-13	1880	0	25.6	18600			N.D.
1913-14	11800	0	359	260000	2	20	18100
1914-15	1110	0	108	77900	1	29	2770
1915-16	22300	0	315	228000	1	18	40000
1916-17	3900	0	49.3	35700			N.D.
1917-18	4940	0	123	88600	3	17	8680
1918-19	76	0	3.2	2290	2	11	230
1919-20	2400	0	94.6	68700	3	2	5000
1920-21	2050	0	40.1	29000	3	14	4000
1921-22	16000	0	505	365000	12	19	22300
1922-23	2250	0	44.0	31800	12	13	3670
1923-24	253	0	3.5	2540	3	26	510
1924-25	588	0	4.2	3030	3	4	3000
1925-26	5530	0	113	81700	4	7	14900
1926-27	11400	0	123	88900	2	16	18200
1927-28	672	0	4.1	2940	2	4	1810
1928-29	411	0	10.0	7210	3	10	895
1929-30	396	0	21.5	15600	3	15	586
1930-31	601	0	9.5	6900	4	26	1450
1931-32	5830	0	120	87200	2	9	7500
1932-33	1630	0	21.9	15900	1	19	5820
1933-34	2380	0	30.4	22080	1	1	6120
1934-35	460	0	102	74080	2	9	507

STATION DATA SUMMARY

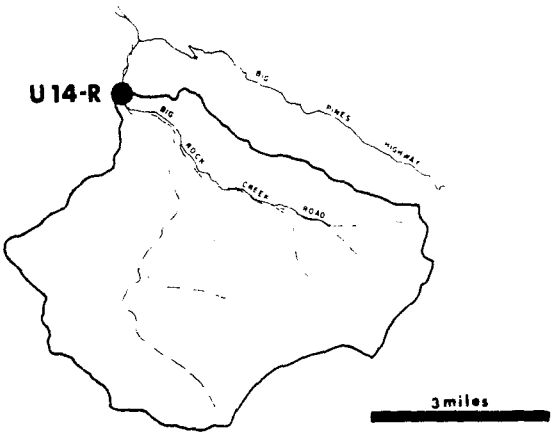
STA. NO. U8-R
SAN GABRIEL RIVER BELOW MORRIS DAM

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1935-36	224	0	31.6	22980	4	10	455
1936-37	1770	0	195	141100	2	20	1950
1937-38	21660	0.1	415	300200	3	2	65700
1938-39	316	6.5	53.5	38680			N.D.
1939-40	506	0	50.5	36640	6	24	506
1940-41	3870	0	317	229300	3	4	4460
1941-42	370	2.5	13.1	9480	4	20	422
1942-43	10370	2.0	334	242000	1	23	12100
1943-44	2710	3.6	184	133700	2	22	5170
1944-45	980	6.1	62.8	45490	2	6	988
1945-46	937	0.3	75.9	54930	12	23	980
1946-47	2930	0	74.9	54220	12	31	2980
1947-48	1170	0	18.1	13170	6	2	1320
1948-49	61	0	5.7	4140	10	27	79
1949-50	7.9	0	0.7	51	7	31	8.2
1950-51	47	0	8.6	6220	4	27	168
1951-52	3530	0	91.1	66120			N.D.
1952-53	1190	0	69.4	50240			N.D.
1953-54	960	0	34.6	25030	4	16	9420
1954-55	9.9	0	0.1	86	9	26	10
1955-56	43	0	0.2	176	9	30	45
1956-57	650	0	12.4	9010	4	14	656
1957-58	2470	0	241	174100	4	5	2780
1958-59	348	0	11.3	8200	2	24	364
1959-60	0	0	0	0			
1960-61	7.5	0	1.7	1250	5	6	9.1
1961-62	1520	0	102	73590	2	12	1650
1962-63	27	0	1.0	712	9	4	45
1963-64	22	0	0.2	160	8	26	50
1964-65	276	0	10.7	981	6	12	291
1965-66	7260	0	225	162900	11	23	8640
1966-67	3750	0	232	167900	12	6	5680
1967-68	236	0	31.7	23030	11	25	326
1968-69	19300	0	750	543000	2	25	29850
1969-70	1060	0	52.4	37970	2	28	1102
1970-71	434	0	31.4	22760	1	4	439
1971-72	299	0	15.3	11090	12	8	299

N.D. = NOT DETERMINED

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

drainage area



RECORDER – continuous water stage

METHOD OF MEASUREMENTS – wading or from cable car

DRAINAGE APEA – 22.9 square miles

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

REGULATION – none

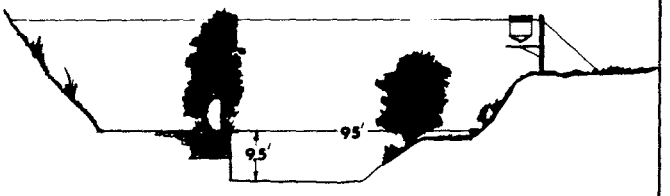
CHANNEL – natural; sand, gravel, and boulders

CONTROL – channel forms control

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

REMARKS - operated and maintained by USGS

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO U14-R

DAILY DISCHARGE IN SECOND-FEET OF BIG ROCK CREEK above Mouth of Canyon FOR THE WATER YEAR ENDING SEPTEMBER 30, 1970

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	12	9.9	10	10	8.2	106	17	11	8.4	8.3	5.5	3.6
2	12	10	10	10	8.1	69	16	11	8.5	7.9	5.5	3.6
3	12	10	9.8	11	8.0	42	16	11	8.5	8.0	5.5	3.6
4	12	11	9.8	10	8.0	35	15	11	8.4	8.0	5.5	3.4
5	11	11	9.9	10	7.8	31	15	12	8.6	7.6	5.5	3.6
6	11	13	9.7	11	7.6	24	14	12	8.7	7.0	5.1	3.5
7	11	13	9.0	11	7.7	22	14	13	8.8	6.9	5.0	3.4
8	10	12	9.0	11	7.6	20	14	13	8.9	7.0	4.8	3.4
9	11	12	9.0	11	11	19	14	13	9.0	7.1	4.7	3.3
10	11	13	9.0	12	33	19	15	13	9.0	7.1	4.6	3.2
11	11	13	9.0	12	40	19	15	13	9.0	6.8	4.5	3.2
12	11	13	8.9	11	13	18	15	13	9.0	6.3	4.8	3.2
13	11	13	8.8	11	11	18	15	12	9.2	6.2	4.7	3.2
14	11	13	8.6	11	10	20	15	12	9.1	6.0	4.4	3.4
15	11	12	8.5	11	10	25	14	11	9.1	5.9	4.4	3.4
16	12	12	8.5	10	10	26	14	11	9.0	5.9	5.3	3.3
17	12	12	8.5	9.5	9.5	25	14	11	8.7	5.9	4.8	3.3
18	13	12	8.5	9.0	9.5	25	13	11	8.4	5.8	4.4	3.2
19	12	12	9.0	8.5	9.5	22	13	11	8.1	5.9	4.4	3.2
20	12	12	9.0	8.5	9.0	20	13	11	8.1	5.7	4.3	3.3
21	12	12	9.0	8.1	9.0	19	13	11	8.0	5.7	4.1	3.3
22	12	12	9.0	8.0	8.5	18	13	10	7.9	5.8	5.2	3.3
23	12	12	9.5	8.0	8.5	18	13	10	7.8	5.8	3.9	3.2
24	12	12	9.5	8.9	8.5	19	12	9.9	7.6	5.7	3.9	3.2
25	12	11	9.5	9.0	8.5	20	12	11	7.3	5.9	3.8	3.2
26	11	10	9.5	8.9	8.0	21	12	12	7.7	5.9	3.7	3.3
27	9.9	10	10	8.7	8.0	21	13	11	8.2	5.9	3.8	3.2
28	9.9	10	9.8	9.0	58	20	13	10	8.4	5.9	3.7	3.2
29	9.9	10	9.6	8.7		19	12	10	8.8	5.7	3.7	3.3
30	9.9	10	10	8.5		19	11	9.8	8.6	5.7	3.6	3.2
31	9.8		10	8.2		18		8.9		5.7	3.6	
MAX.	13	13	10	12	58	106	17	13	9.2	8.3	5.5	3.6
M.D.	693	690	571	600	705	1,620	823	593	505	395	279	198

YEAR OR PERIOD MEAN 10.7

ACRE-FEET 7,770

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO U14-R

DAILY DISCHARGE IN SECOND-FEET OF BIG ROCK CREEK above Mouth of Canyon FOR THE WATER YEAR ENDING SEPTEMBER 30, 1971

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	3.4	3.1	35	13	16	10	13	12	9.5	8.1	5.9	4.7
2	3.5	3.2	14	19	15	10	13	11	9.5	7.9	6.5	4.6
3	3.4	3.2	12	15	14	11	13	11	9.5	7.7	6.3	4.6
4	3.4	3.2	11	11	14	11	13	11	9.5	7.6	6.3	4.4
5	3.3	3.2	11	10	13	11	13	11	9.5	7.5	6.2	4.2
6	3.3	3.2	11	10	13	11	13	11	10	7.2	6.2	4.4
7	3.4	3.4	11	10	12	11	12	12	10	7.1	6.1	4.4
8	3.5	3.5	11	10	12	11	12	10	10	7.1	6.0	4.3
9	3.4	3.5	12	9.9	11	11	12	10	11	6.9	5.9	4.2
10	3.3	3.4	12	9.7	11	11	12	10	10	6.8	5.9	4.1
11	3.3	3.3	12	9.7	11	11	14	9.8	10	6.7	5.9	4.1
12	3.3	3.5	12	11	11	11	14	9.8	9.5	6.6	5.8	4.1
13	3.3	3.7	11	11	11	12	12	10	9.5	6.6	6.0	3.9
14	3.3	3.8	11	11	11	12	12	11	9.7	6.4	5.9	3.8
15	3.4	4.1	11	11	11	11	12	10	9.6	6.7	5.8	3.8
16	3.3	3.7	10	11	12	11	13	10	9.5	6.6	5.7	3.8
17	3.4	3.6	11	11	13	11	13	11	9.4	6.8	5.6	3.8
18	3.4	3.5	11	18	12	11	13	12	9.1	6.6	5.5	3.8
19	3.4	3.8	11	27	12	11	12	11	9.2	6.5	5.2	3.8
20	3.5	3.8	11	40	12	11	12	11	9.5	6.4	4.6	3.8
21	3.6	3.5	12	43	11	11	12	11	9.5	6.5	4.7	3.8
22	3.7	3.5	12	35	11	11	12	12	9.6	6.4	4.8	3.8
23	3.6	3.5	11	32	11	12	12	11	9.5	6.3	4.8	3.8
24	3.8	3.5	11	29	11	12	12	11	9.5	6.2	6.0	3.8
25	3.4	3.8	11	26	11	12	12	11	9.4	6.1	5.1	4.0
26	3.5	4.3	11	24	11	12	12	10	9.5	6.1	4.9	4.1
27	3.5	4.3	12	21	10	14	12	10	10	6.0	4.8	4.3
28	3.5	7.2	12	21	10	13	12	10	10	5.9	4.8	4.3
29	3.5	166	12	19		13	12	10	9.1	5.9	4.8	4.3
30	3.4	74	12	18		13	12	9.5	8.2	6.0	4.8	4.3
31	3.1		12	17		13		9.5		5.9	4.8	
MEAN	3.41	11.4	12.2	18.2	11.9	11.5	12.4	10.6	9.59	6.68	5.54	4.10
ACRE-FEET	209	680	752	1,120	661	706	740	654	571	411	340	244

YEAR OR PERIOD MEAN 9.79
ACRE-FEET 7,080

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO U14-R

DAILY DISCHARGE IN SECOND-FEET OF BIG ROCK CREEK above Mouth of Canyon FOR THE WATER YEAR ENDING SEPTEMBER 30, 1972

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	4.0	4.1	4.4	12	11	9.4	9.5	7.6	5.4	4.1	4.0	3.4
2	4.0	4.1	4.8	12	12	9.5	9.5	7.3	5.4	3.8	3.9	3.4
3	3.9	3.8	5.0	12	12	9.3	10	7.3	5.2	3.8	3.9	3.4
4	3.9	3.8	5.0	12	11	9.2	10	6.8	5.0	3.8	4.2	3.3
5	3.8	3.8	5.0	12	11	9.5	11	6.7	4.9	3.8	4.3	3.3
6	3.8	3.8	5.0	12	11	9.9	11	6.5	4.8	3.8	4.6	3.3
7	3.7	3.8	5.1	12	9.0	10	11	6.3	5.5	3.8	4.3	3.3
8	3.6	3.8	5.0	12	9.0	10	10	6.4	5.4	3.8	4.2	3.0
9	3.6	3.8	5.0	12	9.0	9.9	10	6.0	5.4	4.1	4.4	3.0
10	3.5	3.8	5.0	12	9.3	9.7	11	6.0	5.4	3.9	4.4	2.9
11	3.5	3.8	5.0	12	9.4	9.7	11	5.8	5.4	3.9	4.3	3.0
12	3.5	4.2	5.4	12	9.2	9.5	10	5.7	5.4	3.9	4.6	2.7
13	3.4	4.1	5.4	12	9.0	9.5	9.5	5.6	5.4	3.8	4.5	2.6
14	3.5	4.2	5.0	12	9.0	9.4	9.0	6.3	5.0	3.7	4.7	2.5
15	3.7	4.4	5.0	13	9.0	9.3	9.0	6.0	5.0	4.0	4.7	2.5
16	4.1	4.4	5.2	13	9.0	9.3	8.5	6.0	5.0	4.0	4.6	2.2
17	4.6	4.4	5.4	12	8.8	9.3	8.0	5.7	5.0	4.0	4.6	2.2
18	4.5	4.4	5.4	11	9.2	9.4	9.0	5.4	5.0	4.1	5.3	2.3
19	4.3	4.4	5.4	11	9.1	9.4	9.0	5.8	5.0	4.0	4.9	2.3
20	4.0	4.4	5.4	11	8.9	9.3	8.3	5.8	5.4	4.0	4.7	2.0
21	4.0	4.4	5.8	11	8.9	9.4	9.3	5.8	5.4	4.4	4.6	2.0
22	4.0	4.7	9.2	10	8.9	9.4	9.2	5.4	5.4	4.4	4.5	2.0
23	4.0	4.7	9.0	10	9.0	9.6	8.4	5.4	5.0	4.1	4.2	2.0
24	4.2	4.7	190	10	8.9	9.4	8.3	5.0	5.0	4.2	4.2	1.8
25	4.4	4.7	90	11	8.8	9.4	8.4	5.0	4.7	4.1	4.1	1.8
26	4.2	4.6	58	11	9.2	9.4	8.2	4.7	4.7	4.4	4.0	1.8
27	4.1	4.5	20	12	9.0	9.5	7.9	4.7	4.7	4.3	3.9	1.8
28	4.1	4.4	12	12	9.3	9.5	7.9	4.7	4.7	4.3	4.0	1.6
29	4.1	4.4	12	12	9.4	9.5	7.4	5.8	4.4	4.3	3.9	1.6
30	4.3	4.4	12	11		10	7.4	5.8	4.4	4.1	3.8	1.7
31	4.2		12	11		9.5		5.6		4.5	3.5	
MEAN	3.95	4.23	17.2	11.6	9.53	9.52	9.22	5.90	5.08	4.04	4.32	2.49
ACRE-FEET	243	252	1,060	714	548	585	549	363	302	248	265	148

YEAR OR PERIOD MEAN 7.26
ACRE-FEET 5,270

STATION DATA SUMMARY

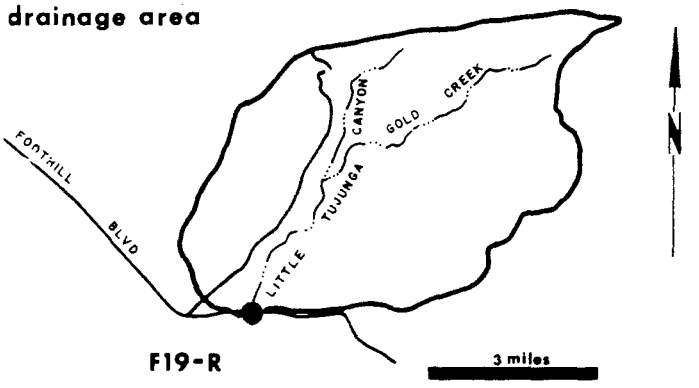
STA. NO. U14-R
BIG ROCK CREEK ABOVE MOUTH OF CANYON

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

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

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

drainage area



RECORDER – continuous water stage

METHOD OF MEASUREMENTS – wading or from bridge

DRAINAGE AREA – 21.0 square miles

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

REGULATION – none

CHANNEL – sand and silt, natural in section

CONTROL – concrete weir below gage

LENGTH OF RECORD – December 26, 1928, to date

cross-section

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F19-R

DAILY DISCHARGE IN SECOND-FEET OF LITTLE TUJUNGA WASH at Foothill Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 1970

	October	November	December	January	February	March	April	May	June	July	August	September
1	0	0	0	0	0	37	0	0	0	0	0	0
2	0	0	0	0	0	17	0	0	0	0	0	0
3	0	0	0	0	0	4.1	0	0	0	0	0	0
4	0	0	0	0	0	7.6	0	0	0	0	0	0
5	0	0	0	0	0	16	0	0	0	0	0	0
6	0	0	0	0	0	3.7	0	0	0	0	0	0
7	0	e 1.0	0	0	0	1.4	0	0	0	0	0	0
8	0	e 1.0	0	0	0	0.9	0	0	0	0	0	0
9	0	0	0	0	7.3	0.6	0	0	0	0	0	0
10	0	0	0	0	7.9	0.4	0	0	0	0	0	0
11	0	0	0	0	e 2.0	+	0	0	0	0	0	0
12	0	0	0	0	e 0.2	+	0	0	0	0	0	0
13	0	0	0	0	0	+	0	0	0	0	0	0
14	0	0	0	0	0	+	0	0	0	0	0	0
15	0	0	0	0	0	+	0	0	0	0	0	0
16	0	0	0	0	0	0	+	0	0	0	0	0
17	0	0	0	+	0	+	0	0	0	0	0	0
18	0	0	0	0	0	+	0	0	0	0	0	0
19	0	0	0	0	0	+	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	+	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	+	0	0	0	0	0	0	0
27	0	0	0	0	+	0	0	0	0	0	0	0
28	0	0	0	0	36	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
MEAN	0	0.07	0	+	1.91	2.86	+	0	0	0	0	0
ACRE-FEET	0	4.0	0	+	106	176	+	0	0	0	0	0

YEAR OR PERIOD MEAN 0.39
ACRE-FEET 286

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO 19-R

DAILY DISCHARGE IN SECOND-FEET OF LITTLE TUJUNGA WASH at Foothill Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 1971

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	+	0	0	0	0	0	0	0	0
2	0	0	8.9	+	0	0	0	0	0	0	0	0
3	0	0	3.6	+	0	0	0	0	0	0	0	0
4	0	0	+	+	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	+	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	+	0	0	0	0	0	0	0	0
13	0	0	0	+	+	+	0	0	0	0	0	0
14	0	0	0	+	0.7	+	0	0	0	0	0	0
15	0	0	0	+	+	0	0	0	0	0	0	0
16	0	0	+	+	+	0	0	0	0	0	0	0
17	0	0	6.3	0	2.0	0	0	0	0	0	0	0
18	0	0	45	0	+	0	0	0	0	0	0	0
19	0	0	42	0	+	0	0	0	0	0	0	0
20	0	0	+	0	0	0	0	0	0	0	0	0
21	0	0	77	0	0	0	0	0	0	0	0	0
22	0	0	15	0	0	0	0	0	0	0	0	0
23	0	0	14	0	0	0	0	0	0	0	0	0
24	0	0	9.0	0	0	0	0	0	0	0	0	0
25	0	0	7.1	0	0	0	0	0	0	0	0	0
26	0	0	7.1	0	0	0	0	0	0	0	0	0
27	0	0	3.7	0	0	0	0	0	0	0	0	0
28	0	10	3.3	0	0	0	0	0	0	0	0	0
29	0	93	3.7	0		0	0	0	0	0	0	0
30	0	2.3	2.5	0		0	0	0	0	0	0	0
31	0		2.5	0		0		0		0	0	
MEAN	0	3.51	8.09	+	0.10	+	0	0	0	0	0	0
ACRE-FEET	0	208	497	+	5.4	+	0	0	0	0	0	0

YEAR OR PERIOD MEAN 0.98
ACRE-FEET 710

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F19-R

DAILY DISCHARGE IN SECOND-FEET OF LITTLE TUJUNGA WASH at Foothill Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 1972

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	2.9	0	0	0	0	0	0	0	0	0
25	0	0	58	0	0	0	0	0	0	0	0	0
26	0	0	b 18	0	0	0	0	0	0	0	0	0
27	0	0	b 26	0	0	0	0	0	0	0	0	0
28	0	0	13	0	0	0	0	0	0	0	0	0
29	0	0	2.9	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
MEAN	0	0	3.89	0	0	0	0	0	0	0	0	0
ACRE-FEET	0	0	239	0	0	0	0	0	0	0	0	0

YEAR OR PERIOD MEAN 0.35
ACRE-FEET 239

STATION DATA SUMMARY

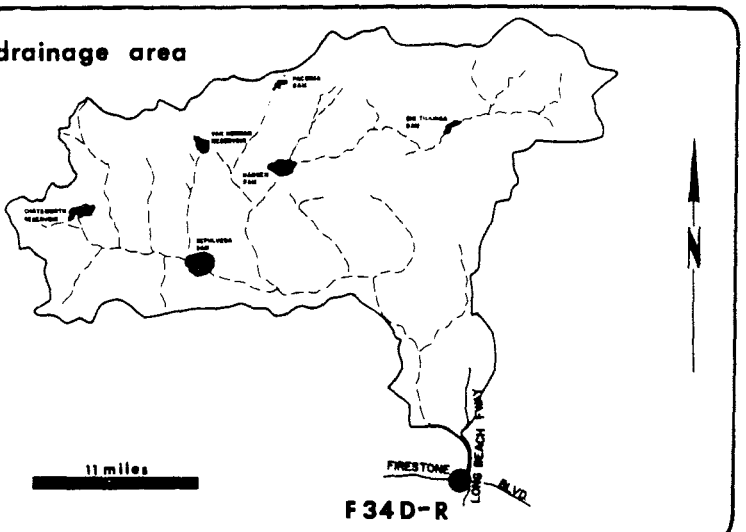
STA. NO. F19-R
LITTLE TUJUNGA WASH AT FOOTHILL BOULEVARD

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

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

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

drainage area



RECORDER – continuous water stage

METHOD OF MEASUREMENTS – wading or from bridge

DRAINAGE AREA – 596.0 square miles

LOCATION – 472.0 feet downstream of Firestone Boulevard 3.0 miles west of Downey

REGULATION – partially regulated by Sepulveda, Pacoima, Big Tujunga, Hansen, and Devil's Gate Dams; and by several spreading grounds, reservoirs, and debris basins.

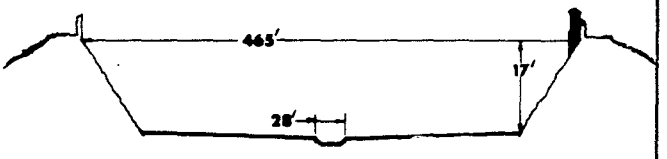
CHANNEL – concrete, with rip-rap side slopes, trapezoidal in section, with trapezoidal low-flow channel

CONTROL – channel forms control

LENGTH OF RECORD –
at Station F34-R, March 1, 1928 to April 11, 1938
at Station F34B-R, April 11, 1938, to November 3, 1949
at Station F34C-R, November 4, 1949, to December 11, 1956
at Station F34D-R, December 11, 1956 to date

REMARKS – subject to diversions from Big Tujunga Creek, Arroyo Seco, and other domestic and irrigation diversions

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F34D-R

DAILY DISCHARGE IN SECOND-FEET OF LOS ANGELES RIVER below Firestone Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 1970

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	33	28	25	31	23	3,030	a 23	27	22	33	34	20
2	30	24	29	36	26	1,780	a 24	24	25	24	27	18
3	43	25	24	37	22	82	a 24	22	28	25	29	19
4	29	25	22	35	32	2,740	a 32	23	26	24	35	18
5	26	26	26	34	49	1,100	a 25	26	26	22	34	16
6	30	a 2,800	26	27	42	71	a 24	27	24	24	33	13
7	35	a 845	22	23	49	34	a 22	29	29	24	31	16
8	32	68	41	21	41	26	23	25	26	23	30	16
9	31	57	32	62	1,190	28	27	22	34	27	29	16
10	29	57	25	264	3,000	33	28	20	28	29	25	17
11	27	48	26	109	402	41	23	19	29	31	28	19
12	23	42	30	132	54	36	21	23	31	34	27	19
13	28	44	22	35	32	32	22	21	56	36	24	15
14	30	42	21	78	23	30	26	21	36	38	20	16
15	35	28	20	120	23	28	27	22	25	42	22	20
16	31	27	24	1,350	23	29	28	25	26	25	18	20
17	25	27	24	103	28	27	29	26	27	18	17	21
18	24	26	24	31	27	28	29	27	29	16	22	21
19	20	25	25	25	27	24	28	32	29	17	23	20
20	21	25	26	23	26	25	27	30	25	18	20	17
21	26	24	26	22	23	24	31	27	25	20	17	18
22	28	25	36	25	22	24	35	27	24	21	20	20
23	28	26	34	25	19	35	28	25	25	24	24	19
24	28	24	34	24	23	32	38	24	24	35	20	19
25	27	22	44	41	22	33	36	31	24	30	21	20
26	25	22	36	28	23	32	32	29	32	21	21	16
27	25	23	28	29	26	31	35	28	28	26	22	14
28	29	27	26	27	4,250	23	37	28	18	28	22	15
29	29	24	27	24		22	28	27	22	35	20	16
30	36	20	29	25		a 145	27	24	27	36	18	18
31	28		29	27		a 101		22		32	16	
MEAN	28.7	151	27.8	92.7	341	314	28.0	25.2	27.7	27.0	24.1	17.7
ACRE-FEET	1,760	8,980	1,710	5,700	18,940	19,290	1,660	1,550	1,650	1,660	1,480	1,050

YEAR OR PERIOD MEAN 90.4
ACRE-FEET 65,440

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F34D-R

DAILY DISCHARGE IN SECOND-FEET OF LOS ANGELES RIVER below Firestone Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 71

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	16.4	26	245	31	35	137	36	37	34	88	24	25
2	18.0	27	734	234	35	154	36	37	41	70	25	24
3	18.9	31	229	41	34	154	32	37	44	51	26	26
4	30	28	73	30	34	154	30	44	49	56	24	22
5	24	30	51	28	36	128	31	45	34	56	26	18.0
6	22	187	45	31	37	137	68	117	31	68	24	59
7	18.0	54	39	31	36	137	35	114	31	86	37	66
8	16.4	18.9	35	41	38	143	34	48	39	68	23	19.8
9	18.0	17.2	396	30	131	143	32	39	45	68	23	15.6
10	14.8	18.0	54	27	428	143	31	37	45	65	25	17.2
11	16.4	18.0	42	30	311	143	30	42	46	54	29	16.4
12	16.4	18.0	32	776	223	148	27	51	39	52	30	15.6
13	15.6	16.4	30	556	216	1,168	52	56	35	49	48	17.2
14	17.2	13.2	205	152	49	230	1,088	57	30	37	49	23
15	18.9	10.8	49	65	52	186	76	65	24	35	25	26
16	21	10.8	322	52	423	175	37	54	99	48	23	25
17	37	13.2	457	42	981	86	36	39	51	38	24	26
18	24	15.6	3,240	34	59	59	39	41	52	32	23	26
19	24	15.6	4,974	34	49	42	30	44	46	41	26	24
20	27	15.6	227	34	41	35	37	45	41	51	30	29
21	28	16.4	5,427	35	37	36	34	45	39	49	22	29 [a]
22	30	18.9	245	35	36	112	36	38	42	52	19.8	27 [a]
23	31	17.2	88	32	37	42	42	36	46	59	23	27
24	27	17.2	63	32	29	42	39	41	52	46	27	28
25	27	36	54	32	28	49	35	36	49	46	37	21
26	27	412	46	28	27	51	48	45	41	48	28	18
27	27	35	42	27	47	127	61	41	39	46	24	21
28	28	3,043	42	48	143	51	46	214	49	44	21	23
29	28	16,680	37	41		87	39	67	70	39	18.9	29
30	28	764	37	36		41	48	31	80	41	19.8	23
31	29		31	32		32		31		36	25	
MEAN	23.4	721	567	86.7	130	141	74.8	54.0	45.4	52.2	26.8	25.6
ACRE-FEET	1,440	42,900	34,890	5,310	7,200	8,670	4,450	3,320	2,700	3,210	1,650	1,520

YEAR OR PERIOD MEAN 162
ACRE-FEET 117,300

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F34D-R

DAILY DISCHARGE IN SECOND-FEET OF LOS ANGELES RIVER below Firestone Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 72

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	18.9	17.2	16.4	48	25	30	22	15.0	22	36	26	25
2	18.0	17.2	38	41	24	29	20	21	22	31	24	26
3	21	24	278	46	24	28	27	21	22	28	22	24
4	22	27	59	39	22	26	25	19.0	19.8	29	19.8	21
5	23	23	29	31	182	25	25	21	18.9	28	17.2	25
6	24	22	23	31	57	28	22	21	34	29	16.4	29
7	24	16.4	22	38	29	22	22	20	80	35	18.0	25
8	24	17.2	18.9	30	28	23	20	26	57	18.9	24	22
9	23	22	19.8	26	26	26	22	24	34	17.2	24	22
10	21	26	26	25	28	23	26	24	31	19.8	27	16.4
11	26	37	22	29	35	28	22	28	27	22	30	19.8
12	26	432	18.9	29	51	22	22	27	29	24	343	28
13	29	46	205	29	28	20	20	35	36	25	103	29
14	22	22	34	32	39	16	16	22	34	30	23	25
15	22	21	19.8	27	30	16	18	25	34	27	19.8	23
16	121	23	18.9	27	28	19	22	22	32	23	16.4	22
17	184	18.0	42	37	30	24	34	19.8	31	26	16.4	15.6
18	59	21	35	38	31	23	48	24	27	30	18.9	16.4
19	49	19.8	25	32	28	32	46	22	27	28	18.9	18.9
20	41	18.0	26	34	27	31	44	27	34	39	16.4	22
21	41	16.4	30	31	30	27	34	34	40	35	19.8	22
22	46	14.8	2,380	27	35	29	25	32	38	32	24	23
23	48	22	204	28	30	31	20	23	31	26	24	21
24	655	21	6,980	26	37	22	23	22	28	34	24	18.9
25	398	18.0	1,950	28	31	22	34	22	27	41	26	21
26	33	14.8	627	29	27	19	44	22	32	25	19.8	24
27	29	14.8	5,570	35	24	24	26	21	38	27	18.9	29
28	26	14.8	1,490	26	28	24	23	17.2	38	31	18.0	26
29	18.0	14.8	222	30	32	24	22	21	38	29	30	26
30	17.2	14.8	97	25		24	17.0	18.0	38	23	22	24
31	14.0		64	22		22		18.0		24	23	
MEAN	68.5	34.5	664	31.5	36.1	25.3	26.4	23.0	33.3	28.5	34.6	23.0
ACRE-FEET	4,210	2,050	40,840	1,940	2.070	1,510	1,570	1,420	1,980	1,730	2,130	1,370

YEAR OR PERIOD MEAN 86.6
ACRE-FEET 62,820

STATION DATA SUMMARY

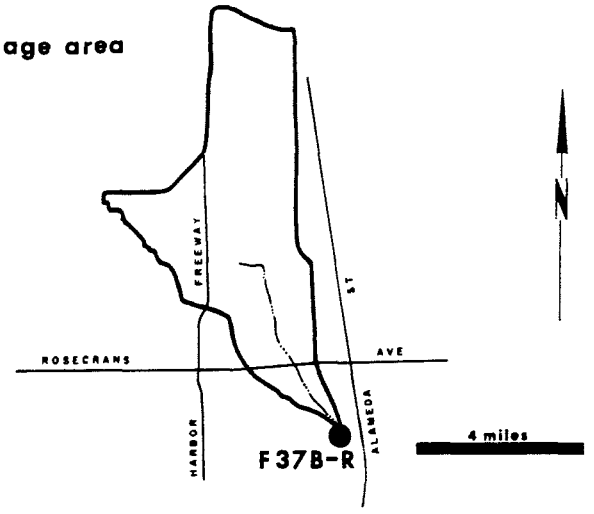
STA. NO. F34D-R
LOS ANGELES RIVER BELOW FIRESTONE BOULEVARD

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1927-28	*	0	*	6990*	2	4	1120*
1928-29	775	0	13.6	9830	11	14	2010
1929-30	813	0	13.4	9730	3	15	2210
1930-31	1560	1.4	18.6	13450	2	4	4360
1931-32	2650	0.4	35.3	25620	2	8	4780
1932-33	2900	0	23.5	17020	1	19	7070
1933-34	8550	0	52.9	38330	1	1	29400
1934-35	1430	0	40.3	29170	1	5	10400
1935-36	1040	0	20.5	14920	2	12	5730
1936-37	3460	0	67.2	48630	12	30	10000E
1937-38B	40000	0	278	201300	3	2	79000
1938-39	5090E	0	108	78440	9	25	10800
1939-40C	2410	14E	80.5	58420	1	8	7610
1940-41	7580	10	345	249500	2	20	14800
1941-42	2030	27	97.8	70820	12	10	8210
1942-43	10700	18	268	193700	1	23	27500
1943-44	13000	38	249	180900	2	22	24800
1944-45	1980	16	91.0	65900	2	2	6970
1945-46	4000	8.4	95.8	69310	12	22	12500
1946-47	2760	14	99.7	72180	12	25	14900
1947-48	1280	10	52.8	38350	3	24	8980
1948-49	1130	11	49.1	35550	12	17	5300
1949-50	1770	8.5	43.9	31760	2	6	8480
1950-51	898	7.5	35.3	25560	1	11	5840
1951-52	12000	1.8	249	180500	1	16	32900
1952-53	2000	1.4	57.1	41380	11	15	14100
1953-54	4190	1.2	70.9	51330	2	13	19500
1954-55	2470	6.2	54.3	39340	1	18	13700
1955-56	12000	8.2	91.5	66440	1	26	28900
1956-57D	3960	3.8	53.2	38500	2	23	24600
1957-58	6290	4.3	191	138400	2	19	34100
1958-59	4550	5.9	51.4	37210	1	6	24200
1959-60	2090	4.0	43.6	31610	1	12	10700
1960-61	2230	4.5	32.6	23600	11	5	7810
1961-62	9630	3.8	170	123300	2	12	28400
1962-63	4080	4.3	56.2	40690	2	9	19300
1963-64	2810	2.6	49.6	36030	1	21	11400
1964-65	3380	4.3	66.5	48110	4	9	18700
1965-66	15700	4.3	209	151200	12	29	37000
1966-67	10000	6.0	159	114800	11	7	37100
1967-68	9410	13	116	84240	3	8	37400
1968-69	31800	12	541	391800	1	25	58000
1969-70	4250	13	90.4	65440	2	28	20900
1970-71	16700	11	162	117300	11	29	49800
1971-72	6980	14	86.6	62890	12	24	27400

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

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

drainage area



RECORDER – continuous water stage

METHOD OF MEASUREMENTS – wading or from bridge

DRAINAGE AREA – 22.6 square miles

LOCATION – 120.0 feet above Greenleaf Boulevard, 1.5 miles southwest of Compton

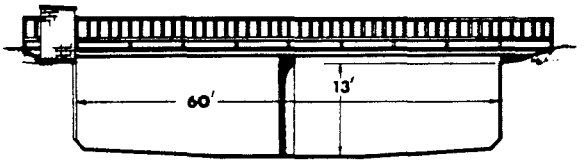
REGULATION – none

CHANNEL – concrete, rectangular in section, 60 feet wide by 13 feet deep

CONTROL – channel forms control

LENGTH OF RECORD –
at Station F37-R, January 22, 1928, to June 9, 1938
at Station F37B-R, October 3, 1938, to date

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F37B-R

DAILY DISCHARGE IN SECOND-FEET OF COMPTON CREEK near Greenleaf Drive FOR THE WATER YEAR ENDING SEPTEMBER 30, 1970

	October	November	December	January	February	March	April	May	June	July	August	September
1	1.6	0.6	0.9	0.3	0.5	77	0.5	0.5	0.5	0.9	0.3	0.9
2	1.9	0.9	0.9	0.3	0.3	86	0.5	0.3	0.8	1.2	0.3	0.6
3	1.2	0.8	0.8	0.3	0.3	0.5	0.6	0.3	0.8	1.2	0.5	0.6
4	0.8	0.8	0.8	0.2	0.5	192	0.5	0.3	0.8	0.9	0.5	0.6
5	0.3	1.6	0.9	0.2	0.5	24	0.3	0.3	0.6	0.6	0.3	0.5
6	0.3	122	1.2	0.2	0.5	0.8	0.3	0.2	0.6	1.6	0.3	0.5
7	0.2	29	0.8	0.5	0.9	0.5	0.6	0.2	0.6	1.6	0.2	0.5
8	0.4	0.3	0.9	0.5	0.8	0.5	0.5	0.3	0.6	1.6	0.8	0.5
9	0.4	0.3	0.9	41	29	0.5	0.5	0.6	0.6	0.9	0.6	0.3
10	0.4	2.3	0.5	54	174	0.5	0.6	0.3	0.6	1.2	0.8	0.6
11	0.3	0.5	0.3	15	21	0.5	0.5	0.3	0.9	0.9	0.6	1.2
12	0.4	0.5	0.5	1.9	0.5	0.6	0.3	0.5	1.2	0.5	0.9	0.9
13	0.2	0.5	0.8	0.2	0.6	0.5	0.3	0.5	5.2	0.8	0.8	0.6
14	0.6	0.6	0.8	16	0.5	0.6	0.8	0.5	0.8	0.6	0.6	0.6
15	1.9	0.8	0.6	2.2	0.5	0.5	0.8	0.6	0.8	0.8	0.9	0.3
16	0.4	0.8	0.5	198	0.5	0.3	0.5	0.5	0.9	0.8	0.5	0.8
17	0.6	0.5	0.9	0.8	0.8	0.5	0.8	0.6	0.9	1.2	0.5	0.6
18	0.6	0.2	0.5	0.5	0.8	0.3	0.8	0.2	0.8	2.3	0.5	0.5
19	0.6	0.2	0.3	0.3	0.6	0.3	0.5	0.2	1.2	2.3	0.3	0.3
20	0.6	0.2	0.5	0.5	0.6	0.5	0.5	0.6	0.9	0.9	0.3	0.5
21	0.6	0.3	0.5	0.5	0.8	0.5	0.5	0.9	1.2	1.2	0.5	0.6
22	0.4	0.5	0.8	0.8	0.6	0.5	0.5	0.9	1.6	1.2	0.3	0.3
23	0.4	0.9	0.6	0.9	2.6	0.3	0.6	0.6	1.2	0.9	0.2	0.3
24	0.6	0.5	0.5	0.8	1.6	0.5	0.8	0.5	1.9	1.2	0.3	0.9
25	0.4	0.8	0.5	0.6	0.8	0.2	0.5	0.3	0.8	0.9	0.9	0.6
26	0.3	0.8	0.3	0.5	0.5	0.2	0.5	0.6	0.8	0.5	0.6	0.5
27	0.2	0.6	0.5	0.6	0.8	0.5	0.3	0.6	1.6	0.5	0.8	0.3
28	0.6	0.5	0.2	0.8	275	0.3	0.5	0.8	0.6	1.2	0.6	0.3
29	0.4	0.6	0.2	0.5		0.5	0.9	0.6	0.5	2.3	0.5	1.2
30	0.4	0.9	0.2	0.5		4.0	0.9	0.6	0.8	0.6	0.2	0.9
31	0.4		0.5	0.5		1.9		0.5		0.8	0.5	
MEAN	0.59	5.66	0.62	10.9	18.4	12.8	0.56	0.47	1.04	1.10	0.51	0.59
ACRE-FEET	36	337	38	674	1,020	785	33	29	62	68	32	35

YEAR OR PERIOD MEAN 4.36

ACRE-FEET 3,150

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

F37B-R

DAILY DISCHARGE IN SECOND-FEET OF COMPTON CREEK near Greenleaf Drive FOR THE WATER YEAR ENDING SEPTEMBER 30, 1971

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	4.3	2.9	1.6	0.9	1.2	0.8	1.2	1.6	0.9	2.9	1.[illegible]	[illegible]
2	5.1	2.6	85	71	1.9	0.8	1.6	0.9	1.6	e 2.9	[illegible]	[illegible]
3	4.0	2.6	1.2	0.6	1.6	0.9	1.6	1.2	1.2	e 2.9	[illegible]	[illegible]
4	3.3	2.6	1.2	0.4	1.2	1.2	1.6	1.6	1.2	e 2.9	2.6	1.[illegible]
5	3.3	2.6	0.9	0.6	1.9	1.6	1.9	1.2	0.9	e 2.9	3.6	[illegible]
6	2.9	17.9	1.2	0.6	1.2	1.6	1.9	1.6	1.6	e 2.9	3.6	[illegible]
7	3.3	1.6	1.2	0.6	1.2	1.6	1.9	2.6	1.2	e 3.3	3.3	[illegible]
8	2.6	0.9	1.2	0.6	1.2	1.9	2.6	1.2	1.2	e 3.3	3.3	4.0
9	2.9	0.8	52	0.6	1.9	1.2	1.9	0.3	1.2	3.3	4.3	2.9
10	2.9	1.2	1.2	0.8	1.6	1.2	1.6	0.3	1.2	3.3	4.3	3.3
11	2.9	0.9	0.8	0.9	1.9	1.2	1.9	0.4	1.2	2.6	4.3	[illegible]
12	3.6	0.9	1.2	10.7	1.6	1.6	1.6	0.4	1.2	2.6	4.0	1.2
13	4.3	1.2	1.2	37	0.9	93	1.6	0.4	1.6	3.3	4.0	[illegible]
14	3.6	0.9	8.9	1.6	0.9	0.9	163	0.4	1.9	2.9	2.9	4.0
15	4.3	0.9	0.9	0.8	1.2	1.2	1.9	0.6	2.9	3.3	1.6	4.3
16	3.6	0.9	36	0.6	67	1.2	1.2	0.4	2.3	3.3	2.3	3.6
17	3.6	1.9	19.9	0.9	90	1.2	1.6	0.6	1.9	2.6	4.0	3.6
18	3.6	1.6	389	0.6	1.2	1.2	0.9	0.4	1.9	e 2.6	4.0	1.9
19	3.6	1.9	244	0.6	7.5	1.6	0.9	1.6	1.9	2.6	3.6	1.9
20	3.6	1.9	20	1.2	0.8	1.2	1.2	0.6	1.6	3.3	3.3	1.6
21	3.3	1.9	199	0.8	0.8	1.2	0.9	0.6	2.6	3.3	2.3	1.9
22	3.3	1.6	3.6	0.9	0.9	1.2	0.8	0.6	3.3	3.3	1.2	2.6
23	3.3	1.6	0.9	1.2	1.2	1.2	1.2	0.4	3.3	3.3	1.9	2.3
24	3.3	1.2	1.9	1.2	1.6	1.6	1.2	0.6	3.3	2.9	3.3	3.3
25	3.3	10.8	1.2	1.2	0.6	1.2	1.2	0.9	3.6	2.6	2.3	2.9
26	3.3	44	1.2	0.6	1.2	0.9	1.2	0.8	2.9	2.6	2.9	2.9
27	3.3	1.9	1.2	0.9	0.8	1.2	1.2	0.9	2.6	3.3	2.6	3.6
28	3.3	396	1.9	0.8	0.6	1.2	1.2	15.3	2.6	2.9	1.9	3.3
29	3.3	609	2.3	1.2		1.2	1.2	1.9	2.6	3.3	0.9	3.3
30	2.9	44	0.9	1.2		1.2	1.2	0.8	2.9	2.6	0.9	3.3
31	2.9		0.8	1.2		1.2		0.8		2.3	2.6	
MEAN	3.45	38.7	35.0	4.61	6.99	4.21	6.83	1.35	2.01	2.97	2.80	2.71
ACRE-FEET	212	2,300	2,150	284	388	259	406	83	120	183	172	161

YEAR OR PERIOD MEAN 11.7
ACRE-FEET 8,500

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F37B-R

DAILY DISCHARGE IN SECOND-FEET OF COMPTON CREEK near Greenleaf Drive FOR THE WATER YEAR ENDING SEPTEMBER 30, 1972

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	2.9	0.8	1.9	0.4	1.2	1.6	1.2	1.2	1.6	2.3	4.0	2.9
2	2.3	1.2	2.3	0.4	1.2	1.6	0.9	1.6	2.3	1.6	4.3	2.9
3	1.6	2.3	74	0.6	0.9	1.6	1.2	0.9	1.2	1.6	4.0	2.6
4	4.0	1.6	5.1	0.8	1.2	2.3	1.6	0.9	1.2	1.6	4.0	2.3
5	3.3	1.9	0.9	0.8	13.1	1.9	1.2	1.2	0.9	1.2	2.9	2.9
6	1.6	1.6	1.2	0.8	2.9	1.9	0.9	0.9	1.9	2.6	1.9	3.6
7	1.9	1.6	1.2	0.9	1.2	1.6	0.9	0.9	9.0	3.3	2.9	3.3
8	3.3	1.6	0.6	1.2	1.6	1.6	1.2	0.8	2.6	2.9	4.0	2.9
9	3.3	1.6	0.4	2.3	1.2	1.6	1.6	1.2	1.2	2.3	4.0	1.9
10	2.3	1.9	0.4	1.9	1.2	1.6	1.2	1.6	0.9	2.6	4.0	1.6
11	1.6	8.0	0.9	1.2	1.6	1.9	1.2	1.6	1.6	2.6	4.0	1.6
12	1.9	50	3.2	1.2	1.2	1.6	0.9	1.2	0.9	3.3	32	1.6
13	2.9	1.9	25	1.9	1.2	1.2	0.9	1.2	1.2	2.6	2.6	2.3
14	2.3	0.9	0.8	1.6	1.2	1.6	1.2	1.2	1.6	3.3	1.9	2.3
15	2.6	0.6	0.9	1.6	1.6	1.6	1.2	1.2	1.6	2.6	2.6	1.9
16	19.7	0.6	0.9	1.6	1.6	1.6	0.8	1.6	1.6	1.9	1.9	2.3
17	6.3	0.6	0.9	2.3	1.6	1.2	0.9	1.9	1.6	2.9	2.3	4.0
18	1.2	1.6	1.6	1.9	1.6	1.2	0.8	1.6	1.2	2.6	3.3	1.9
19	1.2	0.6	1.2	1.9	1.6	1.2	29	1.2	1.6	2.3	2.3	1.9
20	2.6	0.9	1.2	1.2	1.9	1.2	1.6	1.2	1.9	1.9	1.6	2.6
21	2.9	0.9	1.6	1.6	1.2	1.6	1.2	1.2	1.6	3.3	1.9	1.9
22	2.9	1.6	172	1.6	1.6	1.6	0.9	1.2	2.6	3.3	3.3	2.6
23	2.9	1.6	2.6	1.2	1.9	1.2	0.9	1.2	1.9	2.9	3.6	2.6
24	7.8	1.6	622	1.2	1.9	1.2	0.9	1.6	1.6	3.3	3.6	2.3
25	3.3	1.6	79	1.6	1.9	1.6	1.2	1.2	1.9	3.3	3.6	1.9
26	3.3	1.6	6.6	1.2	1.2	1.2	0.9	1.2	1.2	3.6	2.6	1.9
27	3.3	1.6	596	1.9	1.6	1.2	1.6	1.2	1.6	3.6	2.3	1.9
28	0.9	1.6	100	2.9	1.9	1.2	1.6	1.2	1.9	5.1	2.9	2.6
29	0.6	1.9	2.6	1.9	1.6	1.2	1.2	1.2	1.9	3.3	3.6	2.9
30	0.4	2.6	1.2	1.9		1.9	0.9	1.6	1.9	2.6	3.6	2.9
31	0.9		0.8	1.2		1.6		1.9		3.3	4.0	
MEAN	3.16	3.28	55.1	1.44	1.92	1.52	2.06	1.28	1.86	2.76	4.05	2.43
ACRE-FEET	194	195	3,390	89	110	93	122	78.9	110	170	249	144

YEAR OR PERIOD MEAN 6.81
ACRE-FEET 4,940

STATION DATA SUMMARY

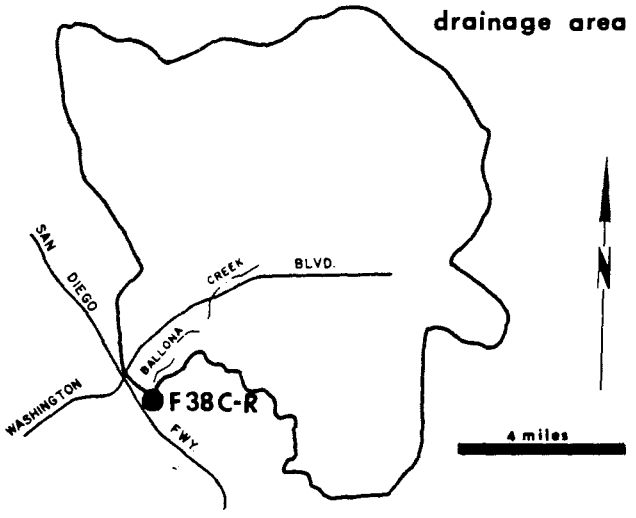
STA. NO. F378-R
COMPTON CREEK NEAR GREENLEAF DRIVE

SEASON	MAX DAILY CFS		MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS	
1927-28	*		0	*	1230*	3	5	240*	
1928-29	197		0	3.1	2270	3	10	924	
1929-30	144		0	3.5	2520	3	14	580	
1930-31	137		+	3.3	2400	4	26	678	
1931-32	248		0	4.4	3220	1	31	757	
1932-33	166		0	2.4	1780	1	19	740	
1933-34	372		0	3.5	2560	1	1	960	
1934-35	301		0	5.7	4170	4	8	850	
1935-36	143		0	4.0	2920	2	12	824	
1936-37	559		0	*	*	2	6	1220	
1937-38	986	E	*	*	*	3	2	N.D.	
1938-39B	837		0	7.1	5150	9	25	2150	
1939-40	256		10	7.4	5340	2	3	1630	
1940-41	544		1.0	22.7	16400	12	23	2660	
1941-42	236		3.0	10.1	7280	12	10	1730	
1942-43	752		0.8	11.8	8560	1	22	2050	
1943-44	739		2.3	15.6	11290	2	20	2370	
1944-45	353		4.4	12.7	9210	11	11	3010	
1945-46	362		2.6	11.0	7960	12	23	2010	
1946-47	474		4.1	13.9	10080	11	23	2930	
1947-48	170		0.6	7.9	5740	3	24	1410	
1948-49	282		0.1	5.1	3660	12	17	2710	
1949-50	433		+	6.6	4820	2	6	2830	
1950-51	209		+	4.9	3550	1	10	1790	
1951-52	661		0.1	14.7	10650	1	18	3220	E
1952-53	220		0.1	5.6	4020	11	15	2380	
1953-54	797		0.1	7.5	5410	2	13	3600	
1954-55	374		0.1	8.4	6080	1	18	2710	
1955-56	2090		0.2	12.7	9240	1	26	4910	
1956-57	286		+	5.6	4070	5	11	1780	
1957-58	1100		+	16.0	11610	2	19	4640	
1958-59	449		0	4.6	3330	1	6	4320	
1959-60	463		0	6.3	4590	1	11	3220	
1960-61	204		+	2.7	1960	11	5	1640	
1961-62	1060		0.1	14.5	10520	2	19	4550	
1962-63	576		+	8.8	6400	2	10	3310	
1963-64	212		+	4.7	3440	11	6	2430	
1964-65	424		0	7.4	5390	4	9	2630	
1965-66	809		+	10.8	7800	12	29	3250	
1966-67	765		+	11.8	8560	11	7	4650	
1967-68	1120		+	9.4	6850	3	7	3690	
1968-69	1040		0	16.6	12010	1	20	5890	
1969-70	275		0.2	4.4	3150	1	16	1960	
1970-71	609		0.4	11.7	8500	11	29	2930	
1971-72	622		0.4	6.8	4940	12	27	6000	

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

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

drainage area



RECORDER – continuous water stage

METHOD OF MEASUREMENTS – wading or from cable car

DRAINAGE AREA – 88.6 square miles

LOCATION – 530.0 feet above Sawtelle Boulevard, 1.5 miles southwest of Culver City

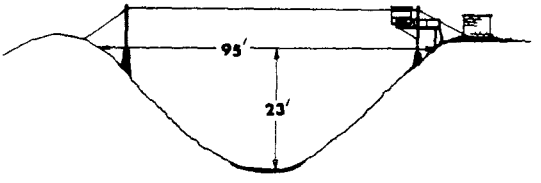
REGULATION – Stone Canyon Reservoir prior to January, 1951. Upper and Lower Franklin Canyon Reservoir, Hollywood Reservoir, and Silverlake Reservoir

CHANNEL – concrete rubble, trapezoidal in section

CONTROL – channel forms control

LENGTH OF RECORD –
at Station F38-R, February 27, 1928, to April 27, 1936
at Station F38B-R, May 14, 1936, to August 10, 1967
at Station F38C-R, August 10, 1967, to date

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F38C-R

DAILY DISCHARGE IN SECOND-FEET OF BALLONA CREEK above Sawtelle Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 1970

	October	November	December	January	February	March	April	May	June	July	August	September
1	19.0	13.0	30	9.4	11.2	415	8.8	13.0	11.2	10.6	14.0	12.4
2	18.0	13.0	30	10.0	11.8	123	11.2	11.2	10.6	10.0	13.0	13.0
3	21	17.0	30	10.0	11.8	13.0	11.8	12.4	11.2	10.6	18.0	25.2
4	17.0	15.0	30	11.2	14.0	1,063	10.6	13.0	11.2	10.0	15.0	12.4
5	17.0	15.0	30	11.2	15.0	72	9.4	11.2	11.2	10.0	12.4	11.8
6	17.0	752	25	11.2	15.0	15.0	12.4	11.8	11.2	13.0	15.0	10.0
7	17.0	96	16.0	10.0	15.0	11.8	13.0	13.0	10.6	11.2	15.0	11.2
8	18.0	15.0	20	10.0	12.4	11.2	13.0	12.4	11.8	11.8	11.8	13.0
9	20	13.0	17.0	222	260	11.8	13.0	11.2	10.6	12.4	12.4	13.0
10	20	19.0	16.0	208	748	11.8	14.0	11.2	10.0	14.0	15.0	15.0
11	19.0	14.0	12.4	81	64	11.8	13.0	13.0	11.2	11.8	14.0	14.0
12	17.0	14.0	12.4	34	16.0	11.8	12.4	13.0	11.2	a 12.4	14.0	13.0
13	20	18.0	10.6	17.0	15.0	11.8	13.0	13.0	56	a 13.0	13.0	13.0
14	17.0	19.0	10.6	73	14.0	10.6	11.8	14.0	7.6	a 14.0	15.0	17.0
15	16.0	15.0	13.0	21	12.4	9.4	11.8	16.0	10.6	a 15.0	14.0	17.0
16	19.0	15.0	12.4	585	13.0	10.6	14.0	15.0	13.0	a 16.0	18.0	15.0
17	16.0	14.0	11.8	14.0	13.0	10.0	14.0	15.0	11.2	17.0	32	15.0
18	13.0	14.0	11.8	11.2	12.4	10.6	13.0	21	10.0	13.0	36	15.0
19	12.4	16.0	11.8	11.8	13.0	10.0	13.0	19.0	9.4	10.6	16.0	12.4
20	16.0	13.0	10.0	12.4	14.0	9.4	14.0	15.0	10.0	11.8	15.0	11.2
21	18.0	13.0	10.0	12.4	11.8	10.0	13.0	11.8	9.4	9.4	16.0	15.0
22	18.0	15.0	11.2	12.4	11.2	8.8	15.0	11.8	13.0	12.4	14.0	15.0
23	20	14.0	11.8	12.4	11.2	10.6	14.0	a 11.8	12.4	13.0	13.0	15.0
24	a 20	19.0	12.4	11.2	11.8	9.4	15.0	a 11.8	13.0	12.4	17.0	14.0
25	a 19.0	19.0	10.0	11.2	11.2	15.0	13.0	a 11.8	15.0	11.8	15.0	14.0
26	a 18.0	30	10.0	15.0	11.2	15.0	10.6	a 11.8	14.0	12.4	15.0	14.0
27	a 18.0	25	8.2	13.0	10.0	15.0	12.4	11.8	11.8	13.0	18.0	14.0
28	a 17.0	25	8.8	13.0	1,380	13.0	13.0	12.4	10.6	11.2	17.0	17.0
29	a 16.0	23	10.0	12.4		11.8	11.8	12.4	11.2	14.0	12.4	26
30	16.0	23	12.4	13.0		125	13.0	10.0	10.0	16.0	9.4	22
31	15.0		11.8	11.8		18.0		9.4		17.0	14.0	
MEAN	17.5	44.2	15.4	48.7	98.5	67.9	12.6	12.9	12.7	12.6	15.8	14.8
ACRE-FEET	1,080	2,630	946	3,000	5,470	4,180	749	795	754	776	970	885

YEAR OR PERIOD MEAN 30.7
ACRE-FEET 22,230

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F38C-R

DAILY DISCHARGE IN SECOND-FEET OF BALLONA CREEK above Sawtelle Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 1971

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	12.7	11.8	21	13.0	14.0	9.4	14.0	16.0	10.6	10.6	11.8	13.0
2	12.5	14.0	269	181	13.0	10.6	15.0	17.0	11.2	11.8	13.0	14.0
3	12.3	11.8	13.0	11.8	14.0	10.6	15.0	15.0	10.6	10.6	12.4	14.0
4	12.1	10.6	12.4	13.0	15.0	11.8	15.0	13.0	11.2	10.0	13.0	12.4
5	11.9	12.4	10.0	12.4	16.0	13.0	17.0	11.8	10.0	8.8	14.0	11.8
6	11.7	109	9.4	12.4	16.0	12.4	19.0	45.2	9.4	12.4	14.0	13.0
7	11.5	13.0	10.0	12.4	14.0	14.0	16.0	10.0	11.2	10.6	13.0	10.6
8	11.2	11.8	10.6	13.0	16.0	19.0	16.0	10.0	11.8	11.2	12.4	11.8
9	10.9	15.0	238	12.4	29.6	19.0	16.0	11.8	11.8	11.8	15.0	11.8
10	11.0	15.0	11.2	13.0	16.0	19.0	14.0	14.0	11.8	13.0	14.0	11.8
11	11.2	13.0	10.6	15.0	16.0	21	13.0	13.0	16.0	11.2	13.0	11.2
12	12.3	15.0	10.0	314	16.0	22	12.4	11.8	15.0	11.8	11.8	11.3
13	13.4	15.0	22.8	361	14.0	564	12.4	13.0	10.0	11.8	13.0	11.4
14	14.5	14.0	33.4	18.0	13.0	10.6	599	12.4	12.4	11.8	11.2	11.5
15	15.6	11.8	11.8	10.0	13.0	13.0	11.8	13.0	12.4	12.4	10.6	11.6
16	15.2	16.0	440	9.4	339	13.0	11.8	12.4	12.4	15.0	11.8	11.7
17	14.8	17.0	141	8.8	248	14.0	11.8	16.0	13.0	12.4	13.0	11.8
18	14.4	18.0	1,901	10.6	11.8	11.2	11.2	13.0	12.4	13.0	12.4	11.2
19	14.0	18.0	708	11.8	21	14.0	12.4	12.4	11.8	14.0	11.8	10.6
20	13.6	19.0	81.7	11.2	11.8	10.6	11.2	14.0	13.0	14.0	11.8	13.0
21	13.2	17.0	1,542	10.6	9.4	9.4	11.8	17.0	13.0	15.0	11.2	8.2
22	40.6	16.0	27.4	10.0	10.6	14.0	11.8	12.4	13.0	11.2	10.0	9.4
23	25.2	16.0	19.0	10.0	10.6	14.0	11.2	11.8	12.4	11.2	11.2	10.0
24	14.0	19.0	16.0	9.4	10.6	15.0	12.4	13.0	12.4	10.6	10.6	11.8
25	12.4	98.6	15.0	11.2	11.2	11.2	11.8	10.6	13.0	10.6	11.2	10.0
26	14.0	199	13.0	14.0	10.6	12.4	15.0	11.2	11.8	10.6	11.2	10.0
27	14.0	10.0	13.0	11.8	10.0	12.4	19.0	12.4	10.6	11.2	11.2	11.2
28	14.0	1,673	14.0	11.8	9.4	11.2	21	67.9	10.6	11.8	11.2	11.2
29	15.0	3,174	15.0	11.8		12.4	19.0	10.0	10.6	13.0	11.2	11.8
30	14.0	180	15.0	12.4		11.2	20	8.8	10.6	13.0	13.0	12.4
31	11.8		14.0	11.2		12.4		8.8		13.0	13.0	
MEAN	14.4	193	183	38.3	33.9	31.2	33.9	15.4	11.9	11.9	12.2	11.5
ACRE-FEET	883	11,480	11,250	2,360	1,880	1,920	2,020	950	706	733	750	686

YEAR OR PERIOD MEAN 50.8
ACRE-FEET 35,620

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F38C-R

DAILY DISCHARGE IN SECOND-FEET OF BALLONA CREEK above Sawtelle Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 1972

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	10.6	9.4	16.0	10.6	13.0	12.4	11.8	12.4	11.8	12.4	15.0	13.0
2	10.0	10.0	150	10.6	12.4	15.0	13.0	11.2	11.2	11.8	14.0	11.2
3	10.0	10.0	45	11.2	12.4	16.0	13.0	11.2	10.6	11.8	13.0	11.2
4	11.8	10.6	27	11.2	14.0	13.0	14.0	11.8	10.6	9.4	16.0	11.2
5	12.4	10.6	8.2	10.6	102	12.4	13.0	11.8	12.4	11.2	10.6	13.0
6	12.4	10.0	8.2	10.6	10.6	16.0	12.4	10.0	11.2	10.6	10.0	11.8
7	11.8	10.0	7.6	10.0	10.0	16.0	11.2	8.8	95	11.8	13.0	11.8
8	12.4	17.0	8.2	9.4	11.8	14.0	10.6	11.2	10.6	10.6	12.4	12.4
9	10.6	14.0	9.4	9.4	11.8	15.0	10.0	11.8	10.0	10.0	12.4	11.8
10	10.6	15.0	10.0	9.4	10.6	13.0	13.0	10.6	9.4	10.6	14.0	11.2
11	12.4	63	9.4	8.8	10.6	13.0	13.0	10.0	8.2	11.2	15.0	15.0
12	11.2	208	16.0	8.8	10.0	14.0	12.4	10.6	10.6	11.2	175	14.0
13	10.0	8.2	82	9.4	10.6	14.0	12.4	10.6	11.8	11.2	15.6	12.4
14	10.0	7.6	8.8	8.8	11.8	16.0	12.4	10.0	14.0	11.8	11.8	9.4
15	8.8	10.0	8.8	8.8	11.2	14.0	11.8	10.6	11.8	10.6	12.4	10.6
16	48	14.0	9.4	9.4	11.2	14.0	11.8	11.2	11.8	13.0	13.0	10.0
17	12.8	14.0	9.4	9.4	15.0	14.0	14.0	10.0	11.2	14.0	12.4	9.4
18	9.4	11.8	7.6	8.8	11.8	12.4	11.8	10.0	10.6	13.0	12.4	10.6
19	8.8	10.0	7.6	8.8	12.4	11.2	62	11.8	11.2	12.4	11.2	9.4
20	9.4	8.8	9.4	9.4	12.4	13.0	10.6	10.6	11.8	11.8	10.0	8.8
21	9.4	9.4	10.0	9.4	11.8	15.0	10.6	8.8	11.8	12.4	11.8	10.6
22	8.8	11.2	793	10.0	16.0	14.0	9.4	10.6	13.0	10.0	12.4	10.0
23	8.2	11.2	28	9.4	16.0	13.0	9.4	11.8	11.2	10.0	12.4	8.8
24	78	11.8	2,620	11.2	17.0	10.6	10.6	11.8	10.0	11.8	13.0	8.8
25	9.4	11.2	487	11.8	17.0	11.2	10.0	11.2	10.0	12.4	13.0	11.8
26	9.4	11.8	49	12.4	15.0	8.8	11.2	11.8	10.6	11.2	12.4	11.2
27	8.8	12.4	1,900	13.0	13.0	11.2	10.6	11.2	11.8	12.4	11.2	11.8
28	9.4	12.4	427	11.8	11.8	11.2	10.6	11.2	13.0	12.4	18.0	12.4
29	8.8	17.0	18.0	11.2	11.2	11.8	10.0	10.6	14.0	10.6	25	11.8
30	8.8	16.0	12.4	11.2		11.2	8.8	11.2	14.0	11.8	20	10.6
31	8.8		11.2	12.4		13.0		11.8		13.0	16.0	
MEAN	13.6	19.5	220	10.2	15.7	13.2	13.2	10.9	14.2	11.6	18.8	11.2
ACRE-FEET	835	1,180	13,510	629	901	812	784	671	843	711	1,160	669

YEAR OR PERIOD MEAN 31.3
ACRE-FEET 22,700

STATION DATA SUMMARY

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

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1927-28	N.D	0	N.D.	3930	5	8	1100
1928-29	1150	0	20.6	14900	3	10	4990
1929-30	1130	0	18.6	13480	1	11	4460
1930-31	1500	0	25.6	18520	4	26	6280
1931-32	1780	0	30.0	21790	12	28	6130
1932-33	1660	0	21.8	15810	1	19	7000
1933-34	4310	0	28.5	20630	1	1	11300
1934-35	2190	0	34.4	24870	4	8	11200
1935-36B	929	0	19.3	13500	2	12	8070
1936-37	2160	0	56.2	40680	12	30	8940
1937-38	7330	3.6	72.5	52500	3	2	19000
1938-39	3080	1.8	39.4	28490	12	17	9900
1939-40	1270	1.3	29.1	21110	2	3	9730
1940-41	2680	3.1	93.0	67360	12	23	17300
1941-42	990	2.8	23.8	17250	12	10	7500
1942-43	4840	2.6	47.3	34240	1	22	13200
1943-44	3010	3.4	45.4	33000	2	22	8800
1944-45	1200	3.0	33.8	24450	11	11	9380
1945-46	1830	3.8	25.4	18380	12	22	7750
1946-47	1960	2.8	36.3	26300	12	25	9630
1947-48	1000	3.5	18.8	13630	3	24	12700
1948-49	668	2.8	22.2	16090	2	7	5740
1949-50	1620	1.4	32.1	23250	2	6	7670
1950-51	756	0.7	26.1	18860	1	10	5460
1951-52	2520	3.5	73.5	53350	1	16	12800
1952-53	1140	4.8	27.5	19910	11	15	11500
1953-54	3570	5.4	39.3	28480	2	13	18900
1954-55	1210	5.4	29.8	21600	1	18	9370
1955-56	6510	5.2	44.7	34590	1	26	18700
1956-57	1790	6.3	30.7	22240	2	23	13900
1957-58	3000	6.3	59.4	43040	2	19	15200
1958-59	1210	4.2	19.0	13730	1	6	8170
1959-60	1290	2.2	23.7	17190	1	11	12500
1960-61	945	4.2	17.3	12560	11	5	7700
1961-62	3490	3.2	69.2	50090	2	19	12900
1962-63	1940	3.2	29.6	21450	3	16	12100
1963-64	789	3.9	24.8	18000	1	22	6420
1964-65	1590	3.9	38.0	27540	4	9	17600
1965-66	3620	5.3	61.5	44540	11	22	18000
1966-67C	3020	6.7	62.1	45300	11	7	13900
1967-68	6350	8.2	55.9	40570	11	21	32500
1968-69	4840	8.2	101	73060	1	25	17000
1969-70	1380	7.6	30.7	22230	2	28	1380
1970-71	3170	8.8	50.8	17950	11	29	14600
1971-72	1900	7.6	31.3	22680	12	24	11100

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

DAM OPERATION

DAMS AND RESERVOIRS

FOREWORD

The District operated fourteen major dams during the two seasons of this report. In addition, five dams of the Los Angeles District, Corps of Engineers, Department of the Army, were utilized by the District to achieve flood control and water conservation. The Corps of Engineers' dams are: Hansen Dam on Tujunga Wash, Sepulveda Dam on the Los Angeles River, Santa Fe Dam and Whittier Narrows Dam on the San Gabriel River and Rio Hondo, and San Antonio Dam on San Antonio Creek.

OPERATION

The reservoirs are operated in such a manner as to obtain the maximum possible control of floodwaters during storm periods. Releases are made, when feasible, in amounts which can be conserved in spreading grounds and by natural channel percolation. Following the storm season, water is stored to provide streamflow during the dry summer months for recreation and water supply purposes.

RECORDS

The daily storage and flow records at fourteen of the District dams are summarized on the Dam Operation Record Sheets. The sheets show:

1. Reservoir water surface elevations based on spillway datum. Elevations are obtained from water-stage recorder graphs or interpolation from staff gage readings and recorded as of midnight of each day.

2. Storage in acre-feet based on the most recent topographic surveys.

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

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

5. In some instances, total monthly and yearly evaporation and percolation losses have been computed and are indicated on the Dam Operation Records. Discrepancies between outflow and storage losses at certain dams were attributable to percolation and/or evaporation losses and are shown as total monthly and yearly losses. Total monthly evaporation losses are shown as determined from measurements made on floating or land evaporation pans. In those cases where no allowances were made for evaporation, the amounts are necessarily included in the flow values.

   Accuracy of the flow records computed from storage records is dependent on the frequency with which storage data are revised to keep in step with physical change in reservoirs.

   Recovery of storage capacity lost through sedimentation is accomplished through sluicing and excavation. Amounts of debris removed are tabulated on Table XX included in the Erosion Control section of this report.

FLOOD CONTROL DISTRICT DAMS

Dam	Date of Completion	Date of Survey for Original Storage	Original Storage at Spwy. A.F.	Date of Latest Survey	Latest Storage at Spwy. A.F.	Drainage Area Sq. Miles
1. Pacoima	Feb. 1929	1919	6,060	Aug. 1969	3,837	28.2
2. Big Tujunga	July 1931	1928	6,240	Mar. 1969	2,758	82.3
3. Devil's Gate	June 1920	1929	4,567	Mar. 1969	1,875	31.9
4. Eaton Wash	Feb. 1937	Jan. 1936	956	Feb. 1969	504	9.5
5. Santa Anita	May 1927	1923	1,376	Mar. 1969	258	10.8
6. Sawpit	June 1927	1923	476	Apr. 1969	220	3.3
7. Cogswell	Apr. 1934	Jan. 1936	12,298	Mar. 1969	9,339	39.2
8. San Gabriel	July 1939	1938[1]	53,344	May 1969	36,748	163.5[2]
9. Big Dalton	Aug. 1929	1935[3]	1,053	Mar. 1969	452	4.5
10. San Dimas	Sep. 1922	1919	1,496	Mar. 1969	756	16.2
11. Puddingstone Diversion[4]	July 1928	1929	148	Mar. 1969	42	3.7[5]
12. Puddingstone	Jan. 1928	1915	17,398	Nov. 1965	16,856	11.0[6]
13. Live Oak	Nov. 1922	1919	250	Mar. 1969	176	2.3
14. Thompson Creek	Mar. 1928	Oct. 1932	812[7]	Feb. 1969	448	3.5

(1) Based on a partial survey prior to March 2, 1938 and extrapolations.
(2) Exclusive of drainage area above Cogswell Dam
(3) 1935 is a date of first complete survey; original reconnaissance survey was made in 1923. Earlier publications show storage based on volumetric computations with extrapolations based on the 1923 survey (1,194 A.F.).
(4) Temporary storage - functions primarily to divert flow.
(5) Formerly, 2.6 square miles, includes Ham Canyon beginning 1961-62. Excludes drainage area above San Dimas Dam.
(6) Exclusive of drainage area above Live Oak, San Dimas and Puddingstone Diversion Dams.
(7) Spillway lip lowered in 1942 from elevation 1,640, to elevation 1,634.85. Original storage based on elevation 1,634.85 would have been 645 A.F.

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DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 28.2 Square Miles. Capacity of Reservoir 4,453 Ac. Ft. at Spillway Elev. 1,950.0 Ft. as of August 1966

Gage Heights Read Daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,830.9	317.4	2.3	0.1	1,838.3	399.7	1.4	0.1	1,848.9	546.9	21.8	0.1	1,867.4	907.1	7.2	0.1	1
2	1,831.3	321.7	2.3	0.1	1,838.4	400.9	0.8	0.1	1,850.9	578.8	16.3	0.1	1,866.9	895.6	6.8	12.4	2
3	1,831.6	324.9	1.8	0.1	1,838.6	403.3	1.4	0.1	1,852.5	605.6	13.6	0.1	1,865.9	873.0	8.8	20.0	3
4	1,832.0	329.2	2.3	0.1	1,838.8	405.7	1.4	0.1	1,853.9	630.0	12.4	0.1	1,864.9	850.8	8.9	20.0	4
5	1,832.3	332.4	1.8	0.1	1,839.0	408.1	1.4	0.1	1,855.1	651.7	11.1	0.1	1,864.2	835.4	8.0	15.6	5
6	1,832.6	335.6	1.8	0.1	1,839.2	410.5	1.4	0.1	1,856.3	674.3	11.5	0.1	1,863.6	822.4	6.2	12.6	6
7	1,832.9	338.8	1.8	0.1	1,839.3	411.7	0.8	0.1	1,857.2	691.5	9.5	0.8	1,863.0	809.5	6.2	12.6	7
8	1,833.2	342.0	1.8	0.1	1,839.5	414.2	1.4	0.1	1,857.9	705.1	9.4	2.5	1,862.4	796.7	6.3	12.6	8
9	1,833.5	345.3	1.8	0.1	1,839.4	413.0	0.7	1.3	1,858.5	717.0	8.5	2.5	1,861.8	784.1	5.6	11.8	9
10	1,833.8	348.6	1.8	0.1	1,839.1	409.3	1.9	3.7	1,859.0	726.9	7.5	2.5	1,861.2	771.6	5.9	12.1	10
11	1,834.1	351.9	1.8	0.1	1,838.7	404.5	1.4	3.8	1,859.6	739.0	8.7	2.5	1,860.4	755.2	6.1	14.3	11
12	1,834.3	354.1	1.3	0.1	1,838.3	399.7	1.4	3.8	1,860.0	747.1	6.6	2.5	1,859.6	739.0	6.2	14.3	12
13	1,834.6	357.4	1.8	0.1	1,838.1	397.3	1.7	2.9	1,860.4	755.2	6.7	2.5	1,858.6	718.9	4.2	14.3	13
14	1,834.7	358.5	0.7	0.1	1,837.9	394.9	1.1	2.2	1,860.8	763.4	6.7	2.5	1,857.7	701.2	5.4	14.3	14
15	1,834.9	360.7	1.3	0.1	1,837.8	393.7	1.7	2.2	1,861.2	771.6	6.7	2.5	1,857.1	689.6	5.5	11.3	15
16	1,835.1	362.9	1.3	0.1	1,837.7	392.5	1.7	2.2	1,861.5	777.9	5.7	2.5	1,856.6	680.0	5.0	9.8	16
17	1,835.3	365.1	1.3	0.1	1,837.6	391.4	1.7	2.2	1,861.9	786.2	6.7	2.5	1,856.2	672.4	6.0	9.8	17
18	1,835.5	367.4	1.3	0.1	1,837.5	390.2	1.7	2.2	1,862.7	803.1	11.2	2.6	1,855.7	662.9	5.1	9.8	18
19	1,835.7	369.6	1.4	0.1	1,843.9	472.1	43.1	1.8	1,863.8	826.7	13.3	1.3	1,855.2	653.6	5.1	9.8	19
20	1,836.0	373.0	1.9	0.1	1,849.8	561.1	45.6	0.7	1,864.6	844.2	10.1	1.2	1,854.7	644.4	5.2	9.8	20
21	1,836.2	375.2	1.4	0.1	1,856.3	674.3	75.5	18.4	1,865.3	859.6	9.9	2.0	1,854.2	635.4	5.3	9.8	21
22	1,836.4	377.5	1.4	0.1	1,852.4	603.9	47.6	83.0	1,865.8	870.8	7.8	2.0	1,853.6	624.7	4.5	9.8	22
23	1,836.6	379.8	1.4	0.1	1,841.5	439.7	19.1	102.0	1,866.3	882.0	7.8	2.0	1,853.0	614.2	4.5	9.8	23
24	1,836.8	382.1	1.4	0.1	1,833.5	345.3	20.4	68.0	1,866.8	893.3	7.8	2.0	1,852.4	603.9	4.5	9.6	24
25	1,837.0	384.4	1.4	0.1	1,835.9	371.8	13.5	0.1	1,867.3	904.8	7.9	2.0	1,851.8	593.7	4.5	9.6	25
26	1,837.2	386.7	1.4	0.1	1,837.7	392.5	10.6	0.1	1,867.2	902.5	8.1	9.1	1,851.8	593.7	6.6	6.5	26
27	1,837.4	389.0	1.4	0.1	1,839.2	410.5	9.2	0.1	1,866.6	888.8	9.9	16.6	1,853.1	615.9	11.5	0.3	27
28	1,837.6	391.4	1.4	0.1	1,840.6	428.0	9.0	0.1	1,865.6	866.3	7.4	18.6	1,854.4	639.0	11.9	0.2	28
29	1,837.8	393.7	1.4	0.1	1,841.9	444.9	8.6	0.1	1,865.6	866.3	7.7	7.5	1,855.3	655.5	8.5	0.1	29
30	1,837.9	394.9	0.8	0.1	1,846.1	504.0	29.9	0.1	1,866.2	879.8	7.0	0.1	1,856.2	672.4	8.7	0.1	30
31	1,838.1	397.3	1.4	0.1					1,866.8	893.3	7.1	0.1	1,857.4	695.4	11.8	0.1	31
TOTAL			49.8	3.1			358.3	301.9			294.0	93.5			207.4	303.2	

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	Year
Inf. Ac. Ft.	98.9	710.8	583.1	411.4	1,804.2
Outf. Ac. Ft.	6.1 + (8.7)	598.6 + (5.5)	185.4 + (8.3)	601.3 + (7.9)	1,391.4 + (30.4)
Maximum Mean Daily Inflow	2.3	75.5	21.8	11.9	75.5
Minimum Mean Daily Inflow	0.7	0.7	5.7	4.2	0.7
Storage Change	+ 84.0	+ 106.7	+ 389.3	– 197.9	+ 382.2

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,882.3	feet	on	4/22/68	Storage	1,300.1	Acre Feet		
Min. W. S. Elev.	1,820.1	feet	on	9/30/68	Storage	213.0	Acre Feet		
Max. Peak Inf.	107.1	C. F. S. from	6:00 P.M. on	11/21/67	to	8:00 A.M.	on	11/21/67	
Max. Peak Outf.	105.0	C. F. S. from	12:00 NOON on	11/22/67	to	4:00 P.M.	on	11/22/67	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
E. K. BARR	Dam Tender	Gage Hts. copied	GF JSL	
J. R. HYDE	Hydrographer	Storage applied	GF JSL	
	Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

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DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 28.2 Square Miles. Capacity of Reservoir 4,453.0 Ac. Ft. at Spillway Elev. 1,950.0 Ft. as of August 1966

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,858.4	715.0	10.0	0.1	1,857.1	689.6	5.5	1.6	1,872.2	1,021.8	11.4	7.5	1,876.40	1,132.02	3.44	12.90	1
2	1,859.3	732.9	9.2	0.1	1,857.7	701.2	6.1	0.2	1,873.5	1,054.9	17.1	0.3	1,875.70	1,113.03	3.52	12.90	2
3	1,860.1	749.1	8.3	0.1	1,858.2	711.0	5.2	0.2	1,874.3	1,075.7	10.8	0.2	1,875.10	1,096.89	4.56	12.50	3
4	1,861.0	767.5	9.4	0.1	1,858.8	722.9	6.1	0.1	1,875.0	1,094.2	9.7	0.2	1,874.60	1,083.64	3.81	10.30	4
5	1,860.9	765.4	7.7	8.7	1,859.3	732.9	5.2	0.1	1,875.6	1,110.3	8.4	0.1	1,874.20	1,073.08	5.17	10.30	5
6	1,860.4	755.2	8.2	13.3	1,859.8	743.0	5.3	0.1	1,876.2	1,126.5	9.4	0.1	1,873.70	1,060.06	3.93	10.30	6
7	1,860.0	747.1	9.2	13.3	1,860.7	761.3	9.5	0.1	1,876.7	1,140.2	7.1	0.1	1,873.20	1,047.16	3.89	10.20	7
8	1,859.5	737.0	8.3	13.3	1,865.8	870.8	55.4	0.1	1,877.2	1,153.9	7.2	0.1	1,872.70	1,034.44	3.98	10.20	8
9	1,859.1	728.9	9.3	13.3	1,868.8	939.6	34.9	0.1	1,877.6	1,165.0	5.8	0.1	1,872.20	1,021.84	4.04	10.20	9
10	1,858.9	724.9	11.3	13.3	1,869.6	958.5	9.8	0.1	1,878.0	1,176.1	5.8	0.1	1,871.70	1,009.39	4.12	10.20	10
11	1,858.5	717.0	9.4	13.3	1,870.2	972.8	15.7	8.3	1,878.4	1,187.3	5.9	0.1	1,871.20	997.04	4.17	10.20	11
12	1,858.1	709.0	9.4	13.3	1,870.5	980.0	16.3	12.5	1,878.8	1,198.5	5.9	0.1	1,870.70	984.87	4.26	10.20	12
13	1,858.2	711.0	12.5	11.5	1,871.3	999.5	16.3	6.3	1,879.2	1,209.9	6.0	0.1	1,870.20	972.82	4.32	10.20	13
14	1,858.3	713.0	10.8	9.8	1,871.8	1,011.8	13.4	7.0	1,879.6	1,221.3	6.0	0.1	1,869.70	960.89	4.08	9.90	14
15	1,858.4	715.0	10.8	9.8	1,871.9	1,014.3	13.1	11.7	1,880.0	1,232.7	6.0	0.1	1,869.20	949.04	3.62	9.40	15
16	1,858.4	715.0	9.9	9.8	1,872.0	1,016.8	13.1	11.7	1,880.4	1,244.2	6.1	0.1	1,868.80	939.62	4.85	9.40	16
17	1,858.4	715.0	9.9	9.8	1,872.1	1,019.3	13.1	11.7	1,880.8	1,255.8	6.1	0.1	1,868.60	934.94	3.54	5.70	17
18	1,858.4	715.0	9.9	9.8	1,872.2	1,021.8	11.3	9.9	1,881.1	1,264.5	4.8	0.1	1,868.70	937.28	1.57	0.20	18
19	1,858.3	713.0	8.9	9.8	1,872.4	1,026.8	11.6	8.9	1,881.5	1,276.3	6.3	0.1	1,868.90	941.96	2.75	0.20	19
20	1,858.2	711.0	8.9	9.8	1,872.5	1,029.4	10.3	8.9	1,881.9	1,285.2	4.8	0.1	1,869.10	946.67	2.67	0.10	20
21	1,858.0	707.1	7.9	9.8	1,872.6	1,031.9	10.2	8.8	1,882.2	1,297.0	6.3	0.1	1,869.30	951.41	2.63	0.10	21
22	1,857.9	705.1	8.9	9.8	1,872.7	1,034.4	10.1	8.7	1,881.9	1,288.1	3.9	8.2	1,869.50	956.15	2.68	0.10	22
23	1,857.7	701.2	7.7	9.6	1,872.7	1,034.4	9.0	8.8	1,881.3	1,270.4	4.4	13.1	1,869.80	963.26	3.78	0.0	23
24	1,857.5	697.4	7.7	9.6	1,872.6	1,031.9	7.8	9.9	1,880.8	1,255.8	6.0	13.1	1,870.00	968.00	2.58	0.0	24
25	1,857.2	691.5	6.7	9.6	1,872.6	1,031.9	9.1	8.9	1,880.2	1,238.4	4.6	13.1	1,870.10	970.41	1.51	0.10	25
26	1,857.0	687.7	7.7	9.6	1,872.5	1,029.4	8.0	9.1	1,879.6	1,221.3	4.7	13.1	1,870.30	975.23	2.73	0.10	26
27	1,856.7	681.9	6.6	9.4	1,872.4	1,026.8	8.0	9.1	1,879.0	1,204.2	4.5	12.9	1,870.40	977.64	1.51	0.10	27
28	1,856.5	678.1	6.9	8.9	1,872.3	1,024.3	8.0	9.1	1,878.4	1,187.3	4.6	12.9	1,870.50	980.05	1.41	0.0	28
29	1,856.7	681.9	6.6	4.7	1,872.2	1,021.8	8.0	9.1	1,877.9	1,173.3	6.1	12.9	1,870.60	982.46	1.41	0.0	29
30					1,872.0	1,016.8	6.7	9.1	1,877.1	1,151.1	2.0	12.9	1,870.80	987.28	2.63	0.0	30
31					1,871.9	1,014.3	8.0	9.1					1,870.90	989.69	1.41	0.0	31
TOTAL			259.1	263.3			371.5	198.3			198.3	122.1			100.70	176.00	

	FEBRUARY	MARCH	APRIL	MAY	Year
Inf. Ac. Ft.	514.1	736.9	393.5	199.9	3,648.6
Outf. Ac. Ft.	522.2 + (5.3)	393.3 + (11.3)	242.1 + (14.4)	349.0 + (12.2)	2,898.0 + 73.6)
Maximum Mean Daily Inflow	12.5	55.4	17.1	5.1	75.5
Minimum Mean Daily Inflow	6.6	5.2	2.0	1.4	0.7
Storage Change	– 13.4	+ 332.3	+ 136.8	– 161.4	+ 676.5

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,882.3	feet	on	4/22/68	Storage	1,300.1	Acre Feet		
Min. W. S. Elev.	1,820.1	feet	on	9/30/68	Storage	213.0	Acre Feet		
Max. Peak Inf.	107.1	C. F. S. from	6:00 P.M. on	11/21/67	to	8:00 A.M.	on	11/21/67	
Max. Peak Outf.	105.0	C. F. S. from	12:00 NOON on	11/22/67	to	4:00 P.M.	on	11/22/67	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
E. K. BARR	Dam Tender	Gage Hts. copied	GF JSL	
J. R. HYDE	Hydrographer	Storage applied	GF JSL	
	Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

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Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1968

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 28.2 Square Miles. Capacity of Reservoir 4,453.0 Ac. Ft. at Spillway Elev. 1,950.0 Ft. as of August 1966 Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1,871.00	992.10	1.41	0.0	1,843.60	467.94	1.00	0.10	1,846.20	505.50	0.95	0.0	1,847.10	519.04	0.20	0.0	1
2	1,871.10	994.57	1.44	0.0	1,843.80	470.72	1.60	0.0	1,846.20	505.50	0.20	0.0	1,847.10	519.04	0.20	0.0	2
3	1,871.20	997.04	1.44	0.0	1,843.90	472.11	0.90	0.0	1,846.30	507.00	0.95	0.0	1,847.20	520.58	0.97	0.0	3
4	1,871.40	1,001.98	2.89	0.0	1,844.00	473.50	0.90	0.0	1,846.30	507.00	0.20	0.0	1,847.20	520.58	0.20	0.0	4
5	1,870.80	987.28	1.68	8.90	1,844.10	474.93	0.92	0.0	1,846.30	507.00	0.20	0.0	1,847.20	520.58	0.20	0.0	5
6	1,869.70	960.89	1.09	14.20	1,844.20	476.36	0.92	0.0	1,846.40	508.50	0.95	0.0	1,847.30	522.12	0.97	0.0	6
7	1,869.50	956.15	3.11	5.30	1,844.30	477.79	0.92	0.0	1,846.40	508.50	0.20	0.0	1,847.30	522.12	0.20	0.0	7
8	1,869.60	958.52	1.59	0.20	1,844.40	479.22	0.92	0.0	1,846.50	510.00	0.95	0.0	1,847.30	522.12	0.20	0.0	8
9	1,869.80	963.26	2.78	0.20	1,844.50	480.65	0.92	0.0	1,846.50	510.00	0.20	0.0	1,847.30	522.12	0.20	0.0	9
10	1,869.10	946.67	0.83	9.00	1,844.60	482.08	0.92	0.0	1,846.50	510.00	0.20	0.0	1,847.30	522.12	0.10	0.0	10
11	1,868.00	920.90	1.90	14.70	1,844.70	483.51	0.92	0.0	1,846.60	511.50	0.95	0.0	1,847.30	522.12	0.10	0.0	11
12	1,866.90	895.54	2.16	14.70	1,844.80	484.94	0.92	0.0	1,846.60	511.50	0.20	0.0	1,847.30	522.12	0.10	0.0	12
13	1,865.80	870.84	2.39	14.70	1,844.90	486.37	0.92	0.0	1,846.60	511.50	0.20	0.0	1,847.30	522.12	0.10	0.0	13
14	1,864.60	844.24	1.28	14.50	1,845.00	487.80	0.92	0.0	1,846.70	513.00	0.95	0.0	1,847.30	522.12	0.10	0.0	14
15	1,863.40	818.14	1.54	14.50	1,845.10	489.27	0.94	0.0	1,846.70	513.00	0.20	0.0	1,847.30	522.12	0.10	0.0	15
16	1,862.20	792.54	1.79	14.50	1,845.20	490.74	0.94	0.0	1,846.80	514.50	0.95	0.0	1,847.30	522.12	0.10	0.0	16
17	1,861.00	767.50	1.87	14.30	1,845.20	490.74	0.10	0.0	1,846.80	514.50	0.10	0.0	1,847.30	522.12	0.10	0.0	17
18	1,859.10	728.92	0.54	19.80	1,845.30	492.21	0.84	0.0	1,846.90	516.00	0.10	0.0	1,846.10	504.00	0.0	8.60	18
19	1,857.00	687.70	1.41	22.00	1,845.40	493.68	0.84	0.0	1,846.90	516.00	0.85	0.0	1,844.30	477.79	0.45	14.00	19
20	1,854.70	644.47	0.40	22.00	1,845.40	493.68	0.10	0.0	1,846.90	516.00	0.10	0.0	1,842.40	451.56	0.87	14.00	20
21	1,852.90	612.49	0.77	16.70	1,845.50	495.15	0.84	0.0	1,847.00	517.50	0.85	0.0	1,840.50	426.80	1.41	13.80	21
22	1,851.50	588.80	1.15	12.90	1,845.60	496.62	0.84	0.0	1,847.00	517.50	0.10	0.0	1,838.40	400.90	0.84	13.80	22
23	1,850.10	565.92	1.46	12.90	1,845.60	496.62	0.10	0.0	1,847.00	517.50	0.10	0.0	1,836.30	376.42	1.35	13.60	23
24	1,848.60	542.26	1.07	12.90	1,845.70	498.09	0.84	0.0	1,847.00	517.50	0.10	0.0	1,834.20	353.00	1.69	13.40	24
25	1,847.00	517.50	0.41	12.80	1,845.80	499.56	0.84	0.0	1,847.00	517.50	0.10	0.0	1,831.80	327.06	0.32	13.30	25
26	1,845.40	493.68	0.89	12.80	1,845.80	499.56	0.10	0.0	1,847.00	517.50	0.10	0.0	1,829.70	304.91	2.03	13.10	26
27	1,843.70	469.33	0.62	12.80	1,845.90	501.03	0.84	0.0	1,847.00	517.50	0.10	0.0	1,827.30	280.67	0.77	12.90	27
28	1,843.20	462.38	1.29	4.70	1,846.00	502.50	0.84	0.0	1,847.00	517.50	0.10	0.0	1,825.00	258.30	1.72	12.90	28
29	1,843.40	465.16	1.70	0.20	1,846.00	502.50	0.10	0.0	1,847.10	519.04	0.87	0.0	1,822.60	235.72	1.51	12.80	29
30	1,843.50	466.55	0.90	0.10	1,846.00	502.50	0.10	0.0	1,847.10	519.04	0.10	0.0	1,820.10	213.00	1.44	12.80	30
31					1,846.10	504.00	0.85	0.0	1,847.10	519.04	0.10	0.0					31
TOTAL			43.70	302.30			23.60	0.10			12.20	0.0			18.60	169.00	
Inf. Ac. Ft.		86.7				46.9				24.3				36.9		3,843.4	
Outf. Ac. Ft.		599.6 + (10.3)				0.2 + (9.3)				0 + (9.3)				335.2 + (7.7)		3,839.0 + (110.2)	
Maximum Mean Daily Inflow		3.1				1.6				0.9				2.0		75.5	
Minimum Mean Daily Inflow		0.4				0.1				0.1				0		0	
Storage Change		− 523.1				+ 37.4				+ 15.0				− 306.0		− 100.2	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,882.3	feet	on	4/22/68	Storage	1,300.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1,820.1	feet	on	9/30/68	Storage	213.0	Acre Feet	E. K. BARR	Dam Tender	Gage Hts. copied	GF JSL
Max. Peak Inf.	107.1	C. F. S. from	6:00 P.M.	on	11/21/67	to	8:00 A.M.	on	11/21/67	J. R. HYDE	Hydrographer	Storage applied	GF JSL
Max. Peak Outf.	105.0	C. F. S. from	12:00 NOON	on	11/22/67	to	4:00 P.M.	on	11/22/67		Hydrographer	Inf. & Outf. comp.	GF JSL

REMARKS (INDICATES AVERAGE FOR PERIOD.
( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-68B 3-64

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1969

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 28.2 Square Miles. Capacity of Reservoir 3,841.1 / 4,453.1 Ac. Ft. at Spillway Elev. 1,950.0 Ft. as of March / August 1966 / 69 Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	1,817.5	190.4	1.2	12.6	1,810.3	132.4	0.9	0	1,813.1	154.2	0.4	0	1,816.2	179.5	0.9	0	1
2	1,814.9	168.7	1.7	12.6	1,810.4	133.2	0.5	0	1,813.2	155.0	0.5	0	1,816.3	180.3	0.5	0	2
3	1,812.1	146.4	1.3	12.5	1,810.5	134.0	0.5	0	1,813.3	155.8	0.4	0	1,816.4	181.1	0.5	0	3
4	1,809.1	123.4	0.8	12.3	1,810.7	135.5	0.8	0	1,813.4	156.6	0.4	0	1,816.5	182.0	0.5	0	4
5	1,805.7	99.6	0.2	12.1	1,810.8	136.3	0.4	0	1,813.5	157.4	0.4	0	1,816.6	182.8	0.5	0	5
6	1,804.7	93.2	1.3	4.4	1,810.9	137.0	0.4	0	1,813.5	158.2	0.4	0	1,816.7	183.6	0.5	0	6
7	1,805.0	95.1	1.2	0.2	1,811.0	137.8	0.4	0	1,813.7	159.0	0.4	0	1,816.8	184.4	0.5	0	7
8	1,805.4	97.7	1.5	0.1	1,811.1	138.6	0.4	0	1,813.8	159.8	0.4	0	1,816.9	185.3	0.4	0	8
9	1,805.7	99.6	1.2	0.1	1,811.3	140.1	0.9	0	1,813.9	160.6	0.5	0	1,817.0	186.1	0.4	0	9
10	1,806.0	101.6	1.0	0	1,811.4	140.9	0.5	0	1,814.0	161.4	0.5	0	1,817.1	187.0	0.4	0	10
11	1,806.3	103.6	1.1	0	1,811.4	140.9	0.1	0	1,814.1	162.2	0.4	0	1,817.2	187.8	0.4	0	11
12	1,806.6	105.7	1.1	0	1,811.5	141.7	0.4	0	1,814.2	163.0	0.4	0	1,817.3	188.6	0.4	0	12
13	1,806.9	107.7	1.1	0	1,811.6	142.5	0.5	0	1,814.3	163.8	0.5	0	1,817.5	190.4	0.9	0	13
14	1,807.2	109.8	1.1	0	1,811.7	143.3	0.4	0	1,814.4	164.6	0.5	0	1,817.7	192.0	0.9	0	14
15	1,807.4	111.2	0.9	0	1,811.8	144.0	0.4	0	1,814.5	165.4	0.4	0	1,817.8	192.9	0.4	0	15
16	1,807.6	112.6	0.8	0	1,811.9	144.8	0.4	0	1,814.6	166.3	0.4	0	1,817.9	193.8	0.4	0	16
17	1,807.8	114.0	0.8	0	1,812.0	145.6	0.4	0	1,814.7	167.1	0.4	0	1,818.0	194.6	0.4	0	17
18	1,808.0	115.4	0.8	0	1,812.1	146.4	0.4	0	1,814.8	167.9	0.4	0	1,818.2	196.3	0.9	0	18
19	1,808.2	116.9	0.9	0	1,812.2	147.2	0.4	0	1,814.9	168.7	0.4	0	1,818.8	201.6	2.6	0	19
20	1,808.4	118.3	0.8	0	1,812.3	147.9	0.4	0	1,815.0	169.5	0.4	0	1,822.2	232.0	15.4	0	20
21	1,808.6	119.8	0.8	0	1,812.4	148.7	0.5	0	1,815.1	170.3	0.4	0	1,870.1	970.4	372.5	0	21
22	1,808.8	121.2	0.8	0	1,812.5	149.5	0.4	0	1,815.2	171.2	0.5	0	1,878.2	1,181.7	142.6	35.0	22
23	1,809.0	122.7	0.8	0	1,812.6	150.3	0.4	0	1,815.3	172.0	0.5	0	1,875.4	1,105.0	69.4	103.0	23
24	1,809.1	123.4	0.4	0	1,812.6	150.3	0	0	1,815.4	172.8	0.5	0	1,877.0	1,148.4	133.9	112.0	24
25	1,809.3	124.9	0.8	0	1,812.7	151.1	0.4	0	1,815.5	173.6	0.5	0	1,943.3	3,441.9*	2,186.8	729.0	25
26	1,809.4	125.7	0.4	0	1,812.8	151.8	0.4	0	1,815.6	174.5	0.4	0	1,958.4	4,390.1	1,620.1	1,141.9	26
27	1,809.5	126.4	0.4	0	1,812.8	151.8	0	0	1,815.7	175.3	0.5	0	1,950.6	3,878.8	928.2	1,185.9	27
28	1,809.6	127.1	0.4	0	1,812.9	152.6	0.4	0	1,815.8	176.1	0.5	0	1,936.2	3,056.1	518.4	933.2	28
29	1,809.8	128.6	0.9	0	1,813.0	153.4	0.4	0	1,815.9	177.0	0.5	0	1,935.3	3,009.5	290.6	314.0	29
30	1,809.9	129.4	0.5	0	1,813.0	153.4	0	0	1,816.0	177.8	0.5	0	1,937.9	3,145.5	163.2	94.6	30
31	1,810.1	130.9	0.9	0					1,816.1	178.6	0.5	0	1,941.1	3,318.8	151.0	63.6	31
TOTAL			28.3	66.9			13.0	0			14.3	0			6,604.5	4,718.2	
Inf. Ac. Ft.		56.1				25.8				28.4				13,099.9		13,210.2	
Outf. Ac. Ft.		132.6 + (5.5)				0 + (3.3)				0 + (3.2)				9,358.4 + (2.6)		9,491.0 + (14.6)	
Maximum Mean Daily Inflow		1.7				0.8				0.5				2,186.7		2,186.7	
Minimum Mean Daily Inflow		0.1				0				0.4				0.4		0	
Storage Change		− 82.1				+ 22.5				+ 25.2				+ 3,141.0		+ 3,105.8 (1)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,961.8	feet	on	2/25/69	Storage	5,247.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1,796.0	feet	on	MAY - SEPT.	Storage	0	Acre Feet	E. K. BARR	Dam Tender	Gage Hts. copied	GF JSL
Max. Peak Inf.	5,115.0	C. F. S. from	4:00 A.M.	on	2/25/69	to	5:00 A.M.	on	2/25/69	J. R. HYDE	Hydrographer	Storage applied	GF JSL
Max. Peak Outf.	2,715.0	C. F. S. from	1:00 P.M.	on	2/25/69	to	2:00 P.M.	on	2/25/69		Hydrographer	Inf. & Outf. comp.	GF JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
* 597.9 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO TABLE XI - 1/25. SURVEY OF MARCH, 1969.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1969

Continuous Water Stage Recorder Au

Drainage Area 28.2 Square Miles. Capacity of Reservoir 3,841.1 Ac. Ft. at Spillway Elev. 1,950.0 Ft. as of March 1969 Gage Heights Read Daily

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1,943.0	3,424.8	125.5	72.1	1,947.4	3,681.8	424.6	524.0	1,903.1	1,657.8	38.6	51.0	1,841.2	305.8	22.6	26.0	1
2	1,942.5	3,402.4	108.7	120.0	1,942.3	3,385.6	344.6	494.0	1,902.7	1,643.8	47.0	54.0	1,840.9	302.5	24.3	26.0	2
3	1,940.6	3,291.4	98.0	154.0	1,936.2	3,056.1	285.9	452.0	1,902.6	1,640.4	60.0	61.8	1,839.4	286.1	17.8	26.0	3
4	1,937.6	3,129.6	71.4	153.0	1,931.0	2,797.2	242.5	373.0	1,902.0	1,619.5	57.0	67.5	1,841.2	305.8	34.9	25.0	4
5	1,929.8	2,741.4	101.2	297.0	1,928.9	2,700.1	192.0	241.0	1,902.4	1,633.4	78.3	71.3	1,841.2	305.8	25.0	25.0	5
6	1,927.0	2,614.6	268.1	332.0	1,926.9	2,610.2	138.7	184.0	1,900.2	1,558.2	58.0	95.9	1,841.2	305.8	25.0	25.0	6
7	1,922.1	2,401.4	175.5	283.0	1,924.7	2,513.5	143.3	192.0	1,897.8	1,479.9	54.0	93.5	1,842.3	318.2	31.2	25.0	7
8	1,915.9	2,143.2	152.8	283.0	1,923.7	2,470.1	135.1	157.0	1,893.7	1,356.2	52.0	114.3	1,841.8	312.5	21.1	24.0	8
9	1,908.6	1,857.4	131.9	276.0	1,922.6	2,422.8	126.1	150.0	1,887.5	1,182.2	51.0	138.8	1,842.2	317.1	26.3	24.0	9
10	1,905.1	1,728.8	129.2	193.0	1,921.5	2,375.8	124.3	148.0	1,881.4	1,027.6	50.0	127.9	1,842.3	318.2	24.6	24.0	10
11	1,896.2	1,430.4	122.6	273.0	1,919.6	2,295.6	110.6	151.0	1,874.9	875.2	48.0	124.8	1,842.2	317.1	22.4	23.0	11
12	1,884.9	1,114.4	116.7	276.0	1,918.0	2,229.0	88.4	122.0	1,869.5	757.8	46.1	105.3	1,841.4	308.0	18.4	23.0	12
13	1,880.8	1,013.2	108.0	159.0	1,913.0	2,027.1	74.2	176.0	1,867.8	536.4	45.0	156.6	1,840.5	298.1	17.0	22.0	13
14	1,880.5	1,006.0	101.4	105.0	1,910.6	1,933.5	84.8	132.0	1,857.8	536.4	44.0	44.0	1,840.2	294.8	20.3	22.0	14
15	1,880.0	994.0	99.0	105.0	1,910.3	1,922.0	85.2	91.0	1,852.1	445.6	43.0	88.8	1,839.3	285.0	16.1	21.0	15
16	1,879.0	970.3	92.0	104.0	1,910.1	1,914.3	86.1	90.0	1,837.4	264.8	41.0	132.1	1,839.2	283.9	20.4	21.0	16
17	1,877.7	939.8	85.6	101.0	1,909.9	1,906.6	80.4	84.3	1,820.3	105.0	39.0	119.6	1,839.2	283.9	20.0	20.0	17
18	1,877.0	923.4	92.8	101.0	1,909.8	1,902.8	80.5	82.4	1,827.4	166.4	37.9	7.0	1,839.0	281.8	18.8	19.9	18
19	1,875.7	893.5	84.9	100.0	1,909.6	1,895.2	81.4	85.2	1,827.3	165.5	37.0	37.5	1,839.8	290.4	18.6	14.2	19
20	1,874.1	857.2	81.7	100.0	1,909.3	1,883.8	80.4	86.2	1,827.5	167.3	36.0	35.1	1,834.9	239.0	18.4	44.3	20
21	1,872.5	821.8	79.1	97.0	1,909.2	1,880.0	89.1	90.0	1,828.5	176.5	35.0	30.3	1,816.9	78.1	18.2	99.3	21
22	1,871.8	806.5	82.3	90.0	1,908.4	1,849.9	74.8	90.0	1,828.7	178.4	35.9	35.0	1,796.0	0	18.0	57.4	22
23	1,881.3	1,025.2	216.3	106.0	1,907.3	1,808.9	69.4	90.0	1,832.9	218.9	55.4	35.0	1,796.0	0	18.0	18.0	23
24	1,907.5	1,816.3	677.8	279.0	1,906.0	1,761.3	66.0	90.0	1,839.7	289.3	67.5	32.0	1,796.0	0	18.0	18.0	24
25	1,961.1	4,575.6	2,860.6	1,469.5	1,906.0	1,761.3	54.5	54.5	1,842.9	325.1	48.0	30.0	1,796.0	0	18.0	18.0	25
26	1,956.4	4,255.5	1,325.9	1,487.2	1,905.8	1,754.0	43.2	51.9	1,843.2	328.6	31.8	30.0	1,796.0	0	18.0	18.0	26
27	1,952.8	4,018.9	766.0	385.3	1,905.6	1,746.8	47.3	51.5	1,842.9	325.1	27.2	29.0	1,796.0	0	18.0	18.0	27
28	1,950.6	3,878.8	564.8	635.4	1,905.2	1,732.4	44.5	51.9	1,842.4	319.4	26.1	29.0	1,796.0	0	18.0	18.0	28
29					1,906.7	1,786.9	52.9	25.4	1,842.3	318.2	27.4	28.0	1,796.0	0	18.0	18.0	29
30					1,906.4	1,775.9	41.9	47.4	1,841.9	312.5	24.1	27.0	1,796.0	0	17.0	17.0	30
31					1,903.8	1,682.4	30.5	77.5					1,796.0	0	17.0	17.0	31
TOTAL			3,918.8	4,636.5			3,627.8	4,735.2			1,341.4	2,033.1			639.5	797.1	
Inf. Ac. Ft.		17,690.2				7,195.7				2,660.6				1,268.4		42,025.1	
Outf. Ac. Ft.		17,130.2 + (0)				9,392.1 + (0)				4,030.6 + (0)				1,581.0 + (0)		41,624.9 + (14.6)	
Maximum Mean Daily Inflow		2,860.6				424.6				78.3				34.9		2,860.6	
Minimum Mean Daily Inflow		71.4				30.4				24.1				15.0		0	
Storage Change	+ 560.0				- 2,196.3				- 1,369.9				- 312.5			- 213.0 *	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,961.8	feet	on	2/25/69	Storage	5,247.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,796.0	feet	on	MAY - SEPT.	Storage	0	Acre Feet	E. K. BARR	Dam Tender	Gage Hts. copied	GF JSL	
Max. Peak Inf.	5,115.0	C.F.S. from	4:00 A.M.	on	2/25/69	to	5:00 A.M.	on	2/25/69	J. R. HYDE	Hydrographer	Storage applied	GF JSL	
Max. Peak Outf.	2,715.0	C.F.S. from	1:00 P.M.	on	2/25/69	to	2:00 P.M.	on	2/25/69		Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.
* 597.9 ACRE-FOOT LOSS DUE TO SILTATION.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1970

Continuous Water Stage Recorder Au

Drainage Area 28.2 Square Miles. Capacity of Reservoir 3,841.1 Ac. Ft. at Spillway Elev. 1,950.0 Ft. as of March 1969 Gage Heights Read Daily

Day	JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1,795.0	0	16.0	16.0	1,796.0	0	7.4	7.4	1,796.0	0	3.9	3.9	1,796.0	0	1.2	1.2	1
2	1,795.0	0	16.0	16.0	1,796.0	0	7.1	7.1	1,796.0	0	3.7	3.7	1,796.0	0	1.1	1.1	2
3	1,795.0	0	15.0	15.0	1,796.0	0	7.2	7.2	1,796.0	0	3.5	3.5	1,796.0	0	1.1	1.1	3
4	1,795.0	0	15.0	15.0	1,796.0	0	7.3	7.3	1,796.0	0	3.3	3.3	1,796.0	0	1.4	1.4	4
5	1,795.0	0	15.0	15.0	1,796.0	0	7.4	7.4	1,796.0	0	3.1	3.1	1,796.0	0	1.3	1.3	5
6	1,795.0	0	15.0	15.0	1,796.0	0	7.5	7.5	1,796.0	0	2.9	2.9	1,796.0	0	1.5	1.5	6
7	1,796.0	0	15.0	15.0	1,796.0	0	7.7	7.7	1,796.0	0	2.9	2.9	1,796.0	0	1.9	1.9	7
8	1,796.0	0	14.0	14.0	1,796.0	0	7.3	7.3	1,796.0	0	2.8	2.8	1,796.0	0	2.4	2.4	8
9	1,796.0	0	14.0	14.0	1,796.0	0	6.9	6.9	1,796.0	0	2.7	2.7	1,796.0	0	3.1	3.1	9
10	1,795.0	0	14.0	14.0	1,796.0	0	6.5	6.5	1,796.0	0	2.6	2.6	1,796.0	0	3.0	3.0	10
11	1,795.0	0	14.0	14.0	1,796.0	0	6.1	6.1	1,796.0	0	2.5	2.5	1,796.0	0	3.0	3.0	11
12	1,796.0	0	14.0	14.0	1,796.0	0	5.9	5.9	1,796.0	0	2.4	2.4	1,796.0	0	3.0	3.0	12
13	1,795.0	0	14.0	14.0	1,796.0	0	5.8	5.8	1,796.0	0	2.4	2.4	1,796.0	0	2.8	2.8	13
14	1,796.0	0	13.0	13.0	1,796.0	0	5.6	5.6	1,796.0	0	2.4	2.4	1,796.0	0	3.0	3.0	14
15	1,796.0	0	13.0	13.0	1,796.0	0	5.5	5.5	1,796.0	0	2.3	2.3	1,796.0	0	3.1	3.1	15
16	1,796.0	0	12.0	12.0	1,796.0	0	5.3	5.3	1,796.0	0	2.2	2.2	1,796.0	0	3.2	3.2	16
17	1,796.0	0	12.0	12.0	1,796.0	0	5.2	5.2	1,796.0	0	2.1	2.1	1,796.0	0	3.0	3.0	17
18	1,796.0	0	12.0	12.0	1,796.0	0	5.1	5.1	1,796.0	0	2.0	2.0	1,796.0	0	3.0	3.0	18
19	1,796.0	0	12.0	12.0	1,796.0	0	5.0	5.0	1,796.0	0	1.9	1.9	1,796.0	0	2.9	2.9	19
20	1,796.0	0	12.0	12.0	1,796.0	0	4.9	4.9	1,796.0	0	1.9	1.9	1,796.0	0	3.0	3.0	20
21	1,796.0	0	11.0	11.0	1,796.0	0	4.8	4.8	1,796.0	0	1.9	1.9	1,796.0	0	3.1	3.1	21
22	1,796.0	0	11.0	11.0	1,796.0	0	4.7	4.7	1,796.0	0	1.8	1.8	1,796.0	0	3.0	3.0	22
23	1,796.0	0	10.0	10.0	1,796.0	0	4.5	4.5	1,796.0	0	1.7	1.7	1,796.0	0	3.0	3.0	23
24	1,796.0	0	10.0	10.0	1,796.0	0	4.5	4.5	1,796.0	0	1.6	1.6	1,796.0	0	3.0	3.0	24
25	1,796.0	0	9.8	9.8	1,796.0	0	4.4	4.4	1,796.0	0	1.5	1.5	1,796.0	0	2.8	2.8	25
26	1,795.0	0	9.4	9.4	1,796.0	0	4.4	4.4	1,796.0	0	1.4	1.4	1,796.0	0	2.8	2.8	26
27	1,796.0	0	9.0	9.0	1,796.0	0	4.3	4.3	1,796.0	0	1.3	1.3	1,796.0	0	2.8	2.8	27
28	1,796.0	0	8.6	8.6	1,796.0	0	4.3	4.3	1,796.0	0	1.3	1.3	1,796.0	0	2.7	2.7	28
29	1,796.0	0	8.2	8.2	1,796.0	0	4.2	4.2	1,796.0	0	1.3	1.3	1,796.0	0	2.6	2.6	29
30	1,796.0	0	7.8	7.8	1,796.0	0	4.1	4.1	1,796.0	0	1.2	1.2	1,796.0	0	2.6	2.6	30
31					1,796.0	0	4.0	4.0	1,796.0	0	1.2	1.2					31
TOTAL			371.8	371.8			174.9	174.9			69.7	69.7			76.1	76.1	
Inf. Ac. Ft.		737.4				346.9				138.2				150.9		43,398.5	
Outf. Ac. Ft.		737.4 + (0)				346.9 + (0)				138.2 + (0)				150.9 (0)		42,998.3+ (14.6)	
Maximum Mean Daily Inflow		16.0				7.7				3.9				3.2		2,860.6	
Minimum Mean Daily Inflow		7.8				4.0				1.2				1.1		0	
Storage Change	0				0				0				0			-213.0 *	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,961.8	feet	on	2/25/69	Storage	5,247.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,796.0	feet	on	MAY - SEPT.	Storage	0	Acre Feet	E. K. BARR	Dam Tender	Gage Hts. copied	GF JSL	
Max. Peak Inf.	5,115.0	C.F.S. from	4:00 A.M.	on	2/25/69	to	5:00 A.M.	on	2/25/69	J. R. HYDE	Hydrographer	Storage applied	GF JSL	
Max. Peak Outf.	2,715.0	C.F.S. from	1:00 P.M.	on	2/25/69	to	2:00 P.M.	on	2/25/69		Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
(1) 597.9 ACRE-FOOT LOSS DUE TO SILTATION.

760138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam

In Big Tujunga Canyon for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 3,819.0 Ac. Ft. at Spillway Elev. 2,290.0 Ft. as of October 19 66 Gage Heights Read Daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	2,238.0	992.5	7.0	21.0	2,195.7	215.3	7.7	13.1	2,218.2	491.8	37.4	19.8	2,221.3	552.9	18.6	57.0	1
2	2,237.1	964.8	7.3	21.0	2,196.0	218.3	5.9	4.4	2,219.3	512.5	29.7	19.2	2,216.8	467.0	8.7	52.0	2
3	2,236.3	940.7	8.1	20.0	2,196.2	220.2	5.4	4.4	2,220.2	530.2	27.6	18.6	2,213.0	403.5	17.5	47.0	3
4	2,235.5	916.9	8.3	20.0	2,196.5	223.2	5.9	4.4	2,220.9	544.5	25.3	18.1	2,210.5	376.0	19.7	36.0	4
5	2,234.5	887.7	5.5	20.0	2,196.8	226.2	6.1	4.6	2,221.5	557.2	23.9	17.5	2,209.0	358.0	19.9	29.0	5
6	2,233.6	861.8	7.2	20.0	2,197.0	228.2	5.6	4.6	2,222.0	567.8	22.3	16.9	2,207.6	341.7	18.8	27.0	6
7	2,232.6	833.6	6.0	20.0	2,197.3	231.2	6.3	4.7	2,222.5	578.8	21.9	16.3	2,206.4	327.9	19.1	26.0	7
8	2,231.5	803.1	4.9	20.0	2,197.5	233.2	5.8	4.7	2,222.9	587.6	20.8	16.3	2,206.0	323.4	20.8	23.0	8
9	2,230.5	776.0	6.6	20.0	2,197.8	236.2	6.3	4.7	2,223.3	596.7	20.3	15.7	2,206.5	329.1	19.8	16.9	9
10	2,229.4	746.7	5.5	20.0	2,198.0	238.3	5.8	4.7	2,223.6	603.5	19.2	15.7	2,207.2	337.1	21.0	16.9	10
11	2,228.4	720.7	6.9	19.8	2,198.2	240.3	5.9	4.8	2,223.8	608.1	19.0	15.7	2,208.2	348.6	22.8	16.9	11
12	2,227.4	695.2	7.2	19.8	2,198.4	242.3	6.0	4.9	2,224.0	612.7	17.5	15.2	2,208.7	354.4	18.7	15.7	12
13	2,226.3	667.8	5.2	19.8	2,198.5	243.4	5.6	5.0	2,224.2	617.4	17.6	15.2	2,209.3	361.5	19.3	15.7	13
14	2,225.2	641.0	6.6	19.8	2,198.7	245.4	6.3	5.2	2,224.2	617.4	15.3	15.2	2,209.8	367.5	18.7	15.7	14
15	2,223.9	610.4	4.6	19.8	2,198.9	247.4	6.4	5.3	2,224.3	619.7	16.4	15.2	2,210.0	369.9	16.4	15.2	15
16	2,222.6	581.0	5.2	19.8	2,199.1	249.5	6.5	5.4	2,224.5	624.4	17.6	15.2	2,210.3	373.5	16.5	14.6	16
17	2,221.3	552.9	5.9	19.8	2,199.4	252.6	7.0	5.4	2,224.6	626.8	16.4	15.2	2,210.6	377.2	15.9	14.0	17
18	2,219.9	524.2	5.6	19.8	2,199.7	255.7	7.0	5.4	2,225.7	653.1	27.9	14.6	2,210.8	379.7	15.3	14.0	18
19	2,218.3	493.6	3.4	18.6	2,236.2	937.7	352.3	8.4	2,226.7	677.6	27.0	14.6	2,210.9	380.9	14.7	14.0	19
20	2,216.6	463.7	3.7	18.6	2,242.6	1,143.2	142.7	39.0	2,227.2	690.1	20.9	14.6	2,211.0	382.2	14.6	14.0	20
21	2,215.0	437.9	5.8	18.6	2,253.7	1,590.4	394.4	169.0	2,227.6	700.2	19.8	14.6	2,211.1	383.4	14.6	14.0	21
22	2,213.3	412.7	6.2	18.6	2,250.4	1,446.5	154.4	227.0	2,228.0	710.4	19.8	14.6	2,211.1	383.4	14.0	14.0	22
23	2,211.6	389.8	7.3	18.6	2,242.2	1,129.3	59.1	219.0	2,228.3	718.1	18.6	14.6	2,211.0	382.2	13.3	14.0	23
24	2,210.0	369.9	8.3	18.1	2,234.4	884.8	41.7	163.0	2,228.8	731.0	21.3	14.6	2,211.0	382.2	14.0	14.0	24
25	2,208.2	343.6	7.6	18.1	2,228.9	733.6	34.7	111.0	2,229.5	749.4	24.0	14.6	2,211.0	382.2	14.0	14.0	25
26	2,206.4	327.9	7.9	18.1	2,222.2	572.2	24.6	106.0	2,230.5	776.0	28.2	14.6	2,211.2	384.7	15.2	14.0	26
27	2,204.5	306.7	7.1	17.5	2,214.6	431.8	17.3	88.0	2,231.3	797.6	25.7	14.6	2,213.5	412.7	28.1	14.0	27
28	2,202.7	287.2	7.9	17.5	2,212.0	395.0	28.5	47.0	2,232.0	816.8	24.4	14.6	2,214.4	428.8	22.0	14.0	28
29	2,200.7	266.0	6.8	17.5	2,212.2	397.7	24.4	23.0	2,231.1	792.2	23.8	36.0	2,214.4	428.8	17.0	17.0	29
30	2,198.7	245.4	7.0	17.5	2,216.2	457.0	50.0	20.0	2,227.9	707.8	21.6	64.0	2,213.4	414.2	18.6	26.0	30
31	2,196.8	226.2	7.8	17.5					2,224.7	629.1	21.5	61.0	2,212.5	401.7	19.7	26.0	31
TOTAL			203.0	595.2			1436.8	1318.1			693.2	602.6			548.8	661.6	
Inf. Ac. Ft.		402.7				2,849.9				1,375.0				1,098.6		5,716.2	
Outf. Ac. Ft.		1,180.5 + (16.6)				2,614.4 + (4.7)				1,195.2 + (7.7)				1,312.2 + (3.71)		6,302.3 + (32.7)	
Maximum Mean Daily Inflow		8.3				394.4				37.4				28.1		352.3	
Minimum Mean Daily Inflow		3.4				5.4				15.3				8.7		3.5	
Storage Change		-794.4				+ 230.8				+ (72.1				- 227.4		- 618.9	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

									RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Max. W. S. Elev.	2,256.8	feet	on	5/16-18/68	Storage	1,733.7	Acre Feet		W. L. CROKE	Dam Tender	Gage Hts. copied	GF JSL	6/20/69
Min. W. S. Elev.	2,153.0	feet	on	JULY - SEPT.	Storage	0	Acre Feet						
Max. Peak Inf.	725.8	C.F.S. from	4:00 P.M.	on	11/21/67	to	5:00 P.M.	on	11/21/67	J. R. HYDE	Hydrographer	Storage applied	GF JSL 6/20/69
Max. Peak Outf.	235.0	C.F.S. from	12:00 NOON	on	11/21/67	to	12:00 NOON	on	11/24/67		Hydrographer	Inf. & Outf. comp.	GF JSL 6/20/69

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

760138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam

In Big Tujunga Canyon for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 3,819.0 Ac. Ft. at Spillway Elev. 2,290.0 Ft. as of October 19 66 Gage Heights Read Daily

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	2,211.5	388.6	19.3	26.0	2,228.2	715.5	17.7	17.5	2,247.8	1,339.0	23.1	6.7	2,255.6	1,677.2	9.9	9.5	1
2	2,210.5	376.0	18.6	25.0	2,228.2	715.5	17.7	17.5	2,248.7	1,375.5	25.7	7.0	2,255.7	1,681.8	12.2	9.5	2
3	2,209.8	367.5	20.6	25.0	2,228.2	715.5	17.7	17.5	2,249.4	1,404.4	21.8	7.0	2,255.8	1,686.5	12.2	9.5	3
4	2,209.7	354.4	18.4	25.0	2,228.1	712.9	15.7	16.9	2,249.9	1,425.3	17.6	6.8	2,255.8	1,686.5	9.9	9.5	4
5	2,208.9	356.8	19.2	18.1	2,228.0	710.4	15.7	16.9	2,250.2	1,438.0	13.4	6.8	2,255.9	1,691.1	12.2	9.5	5
6	2,209.6	365.1	18.8	14.6	2,228.0	710.4	17.1	16.9	2,250.6	1,455.0	15.6	6.8	2,256.0	1,695.8	12.7	10.0	6
7	2,210.0	369.9	17.6	15.2	2,228.3	718.1	21.0	16.9	2,251.0	1,472.0	15.6	6.8	2,256.1	1,700.5	12.2	9.5	7
8	2,210.3	373.5	17.1	15.2	2,234.4	884.8	102.8	18.6	2,251.3	1,484.9	13.7	6.8	2,256.2	1,705.2	12.2	9.5	8
9	2,211.4	387.3	22.7	15.7	2,236.5	946.7	49.5	18.1	2,251.6	1,497.9	13.7	6.8	2,256.2	1,705.2	9.9	9.5	9
10	2,213.5	415.6	30.0	15.7	2,237.6	980.2	35.1	18.1	2,251.8	1,506.5	11.5	6.8	2,256.3	1,710.0	12.2	9.5	10
11	2,214.8	434.8	26.0	16.3	2,238.4	1,005.0	30.8	18.1	2,252.0	1,515.2	11.5	6.8	2,256.4	1,714.7	12.2	9.5	11
12	2,215.6	447.3	22.7	16.3	2,239.1	1,027.0	29.3	18.1	2,252.3	1,528.3	13.8	6.8	2,256.5	1,719.5	12.2	9.5	12
13	2,218.0	488.1	37.5	16.9	2,239.8	1,049.4	29.0	17.5	2,252.6	1,541.5	14.0	7.0	2,256.6	1,724.2	11.9	9.5	13
14	2,220.6	538.4	42.9	17.5	2,240.4	1,069.0	27.5	17.5	2,253.8	1,550.3	11.8	7.0	2,256.7	1,728.9	11.7	9.0	14
15	2,222.3	574.4	35.7	17.5	2,240.8	1,082.1	24.3	17.5	2,253.0	1,559.1	12.0	7.2	2,256.7	1,728.9	9.4	9.0	15
16	2,223.4	599.0	29.9	17.5	2,241.2	1,095.4	24.4	17.5	2,253.3	1,572.5	14.3	7.2	2,256.8	1,733.7	11.7	9.0	16
17	2,224.4	622.1	29.2	17.5	2,241.6	1,108.9	24.4	17.5	2,253.5	1,581.5	12.4	7.5	2,256.8	1,733.7	9.4	9.0	17
18	2,225.2	641.0	27.1	17.5	2,241.8	1,115.6	21.0	17.5	2,253.8	1,594.9	14.6	7.5	2,256.8	1,733.7	9.2	8.8	18
19	2,225.8	655.5	25.5	18.1	2,242.0	1,122.4	21.0	17.5	2,254.0	1,603.9	12.7	7.8	2,256.7	1,728.9	6.5	8.5	19
20	2,226.3	667.8	24.8	18.6	2,242.2	1,129.3	21.2	17.5	2,254.2	1,613.0	12.9	8.0	2,256.7	1,728.9	8.9	8.5	20
21	2,226.8	680.1	24.9	18.6	2,242.3	1,132.8	19.4	17.5	2,254.4	1,622.1	13.1	8.2	2,256.7	1,728.9	8.6	8.2	21
22	2,227.1	687.6	22.4	18.6	2,242.8	1,150.2	16.7	7.8	2,254.6	1,631.2	13.4	8.5	2,256.7	1,728.9	8.4	8.0	22
23	2,227.4	695.2	22.5	18.6	2,243.4	1,171.5	17.3	6.4	2,254.8	1,640.3	13.7	8.8	2,256.7	1,728.9	8.4	8.0	23
24	2,227.6	700.2	21.2	18.6	2,244.0	1,193.0	17.5	6.4	2,255.0	1,649.4	13.9	9.0	2,256.7	1,728.9	8.5	8.0	24
25	2,227.8	705.3	21.2	18.6	2,244.5	1,211.5	16.0	6.4	2,255.1	1,654.0	11.9	9.2	2,256.6	1,724.2	6.3	8.2	25
26	2,227.9	707.8	19.4	18.1	2,244.9	1,226.3	14.1	6.4	2,255.2	1,658.6	11.9	9.2	2,256.5	1,719.5	6.3	8.2	26
27	2,228.0	710.4	19.4	18.1	2,245.4	1,245.2	16.2	6.4	2,255.4	1,667.9	14.2	9.2	2,256.4	1,714.7	6.3	8.2	27
28	2,228.1	712.9	18.9	17.5	2,245.8	1,260.4	14.3	6.4	2,255.4	1,667.9	9.6	9.2	2,256.3	1,710.0	6.3	8.2	28
29	2,228.2	715.5	18.9	17.5	2,246.2	1,275.8	14.4	6.4	2,255.5	1,672.6	11.9	9.2	2,256.2	1,715.2	6.3	8.2	29
30					2,246.6	1,291.4	14.5	6.4	2,255.6	1,677.2	11.9	9.2	2,256.1	1,700.5	6.6	8.5	30
31					2,247.0	1,307.0	14.6	6.5					2,256.0	1,695.8	6.6	8.5	31
TOTAL			694.0	533.4			739.2	434.1			428.7	230.8			289.2	275.7	
Inf. Ac. Ft.		1,376.5				1,466.3				850.4				591.5		10,000.9	
Outf. Ac. Ft.		1,057.9 + (4.7)				861.0 + (13.8)				457.7 + (22.4)				546.8 + (26.1)		9,225.7 + (99.7)	
Maximum Mean Daily Inflow		42.9				102.8				25.7				12.7		352.3	
Minimum Mean Daily Inflow		17.1				14.1				9.6				6.3		3.5	
Storage Change		+ 313.8				+ 591.4				+ 370.2				+ 18.5		+ 675.2	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

									RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Max. W. S. Elev.	2,256.8	feet	on	5/16-18/68	Storage	1,733.7	Acre Feet		W. L. CROKE	Dam Tender	Gage Hts. copied	GF JSL	6/20/69
Min. W. S. Elev.	2,153.0	feet	on	JULY - SEPT.	Storage	0	Acre Feet						
Max. Peak Inf.	725.8	C.F.S. from	4:00 P.M.	on	11/21/67	to	5:00 P.M.	on	11/21/67	J. R. HYDE	Hydrographer	Storage applied	GF JSL 6/20/69
Max. Peak Outf.	235.0	C.F.S. from	12:00 NOON	on	11/21/67	to	12:00 NOON	on	11/24/67		Hydrographer	Inf. & Outf. comp.	GS JSL 6/20/69

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

760138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam

In Big Tujunga Canyon for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 3,819.0 Ac. Ft. at Spillway Elev. 2,290.0 Ft. as of OCTOBER 1966 Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	2,255.9	1,691.1	3.9	8.5	2153.00	0.00	5.5	68.0	2153.00	0.00	2.1	2.1	2153.0	0.0	1.0	1.0	1
2	2,255.8	1,686.5	3.9	8.5	2153.00	0.00	5.2	5.2	2153.00	0.00	2.1	2.1	2153.0	0.0	1.0	1.0	2
3	2,255.6	1,677.2	3.9	8.5	2153.00	0.00	4.6	4.6	2153.00	0.00	2.0	2.0	2153.0	0.0	1.0	1.0	3
4	2,255.4	1,667.9	3.9	8.5	2153.00	0.00	3.8	3.8	2153.00	0.00	1.9	1.9	2153.0	0.0	1.0	1.0	4
5	2,255.3	1,663.3	3.9	8.5	2153.00	0.00	3.0	3.0	2153.00	0.00	1.8	1.8	2153.0	0.0	1.0	1.0	5
6	2,255.2	1,658.6	3.9	8.2	2153.00	0.00	3.0	3.0	2153.00	0.00	1.7	1.7	2153.0	0.0	1.0	1.0	6
7	2,255.2	1,658.6	3.9	8.2	2153.00	0.00	3.0	3.0	2153.00	0.00	1.6	1.6	2153.0	0.0	1.0	1.0	7
8	2,255.1	1,854.0	3.9	8.2	2153.00	0.00	3.0	3.0	2153.00	0.00	1.6	1.6	2153.0	0.0	1.0	1.0	8
9	2,255.0	1,649.4	3.9	8.2	2153.00	0.00	3.0	3.0	2153.00	0.00	1.7	1.7	2153.0	0.0	1.0	1.0	9
10	2,254.9	1,644.8	3.9	8.5	2153.00	0.00	2.8	2.8	2153.00	0.00	1.8	1.8	2153.0	0.0	1.0	1.0	10
11	2,254.5	1,626.6	3.9	12.6	2153.00	0.00	2.6	2.6	2153.00	0.00	1.9	1.9	2153.0	0.0	1.0	1.0	11
12	2,254.2	1,613.0	3.9	12.6	2153.00	0.00	2.5	2.5	2153.00	0.00	2.0	2.0	2153.0	0.0	1.0	1.0	12
13	2,253.9	1,599.4	3.9	12.2	2153.00	0.00	2.4	2.4	2153.00	0.00	2.2	2.2	2153.0	0.0	1.0	1.0	13
14	2,253.5	1,581.5	3.9	12.2	2153.00	0.00	2.3	2.3	2153.00	0.00	2.3	2.3	2153.0	0.0	1.0	1.0	14
15	2,253.2	1,568.0	3.9	12.2	2153.00	0.00	2.2	2.2	2153.00	0.00	2.4	2.4	2153.0	0.0	1.0	1.0	15
16	2,252.8	1,550.3	3.9	12.2	2153.00	0.00	2.1	2.1	2153.00	0.00	2.4	2.4	2153.0	0.0	1.0	1.0	16
17	2,252.4	1,532.7	3.9	12.2	2153.00	0.00	2.1	2.1	2153.00	0.00	2.4	2.4	2153.0	0.0	1.0	1.0	17
18	2,252.0	1,515.2	3.9	12.2	2153.00	0.00	2.0	2.0	2153.00	0.00	2.4	2.4	2153.0	0.0	1.0	1.0	18
19	2,249.9	1,425.3	3.9	50.0	2153.00	0.00	2.1	2.1	2153.00	0.00	2.5	2.5	2153.0	0.0	1.0	1.0	19
20	2,246.6	1,291.4	3.9	69.0	2153.00	0.00	2.2	2.2	2153.00	0.00	2.5	2.5	2153.0	0.0	1.0	1.0	20
21	2,243.6	1,178.6	3.9	57.0	2153.00	0.00	2.4	2.4	2153.00	0.00	2.5	2.5	2153.0	0.0	1.0	1.0	21
22	2,241.2	1,095.4	3.9	45.0	2153.00	0.00	2.5	2.5	2153.00	0.00	2.5	2.5	2153.0	0.0	1.0	1.0	22
23	2,238.5	1,008.1	3.9	45.0	2153.00	0.00	2.5	2.5	2153.00	0.00	2.4	2.4	2153.0	0.0	1.0	1.0	23
24	2,234.6	890.6	3.9	61.0	2153.00	0.00	2.5	2.5	2153.00	0.00	2.3	2.3	2153.0	0.0	1.0	1.0	24
25	2,229.4	746.7	3.9	72.0	2153.00	0.00	2.5	2.5	2153.00	0.00	2.2	2.2	2153.0	0.0	1.0	1.0	25
26	2,223.7	605.8	3.9	71.0	2153.00	0.00	2.2	2.2	2153.00	0.00	2.0	2.0	2153.0	0.0	1.0	1.0	26
27	2,218.0	488.1	3.9	56.0	2153.00	0.00	2.2	2.2	2153.00	0.00	1.8	1.8	2153.0	0.0	1.0	1.0	27
28	2,205.5	317.8	3.9	83.0	2153.00	0.00	2.2	2.2	2153.00	0.00	1.6	1.6	2153.0	0.0	1.0	1.0	28
29	2,187.9	145.6	3.9	85.0	2153.00	0.00	2.1	2.1	2153.00	0.00	1.4	1.4	2153.0	0.0	1.0	1.0	29
30	2,189.1	155.3	4.0	4.8	2153.00	0.00	2.1	2.1	2153.00	0.00	1.1	1.1	2153.0	0.0	1.0	1.0	30
31					2153.00	0.00	2.1	2.1	2153.00	0.00	1.1	1.1					31
TOTAL			117.3	881.0			84.7	147.2			62.2	62.2			30.0	30.0	
Inf. Ac. Ft.		252.3				168.0				123.3				59.5		10,584.0	
Outf. Ac. Ft.		1,747.4 + (25.3)				291.9 + (31.3)				123.3 + (0)				59.5 + (0)		11,445.8 + (156.3)	
Maximum Mean Daily Inflow		4.0				5.5				2.5				1.0		352.3	
Minimum Mean Daily Inflow		3.9				2.0				1.1				1.0		1.0	
Storage Change		− 1,540.4				− 155.2				0				0		+ 1,020.6	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2,256.8	feet on	5/16-18/68	Storage	1,733.7	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	2,153.0	feet on	JULY TO SEPT.	Storage	0	Acre Feet	W. L. CROKE	Dam Tender	Gage Hts. copied	GF JSL 6/20/68
Max. Peak Inf.	725.8	C. F. S. from	4:00 P.M. on 11/21/67	to	5:00 P.M.	on 11/21/67	J. R. HYDE	Hydrographer	Storage applied	GF JSL 6/20/68
Max. Peak Outf.	235.0	C. F. S. from	12:00 NOON on 11/21/67	to	12:00 NOON	on 11/24/67		Hydrographer	Inf. & Outf. comp.	GF JSL 6/20/68

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
4INDICATES AVERAGE FOR PERIOD

760138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam

In Big Tujunga Canyon for the Year Ending September 30, 1969

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 3,819.0 / 2,758.0 Ac. Ft. at Spillway Elev. 2,290.0 Ft. as of October 1966 / March 1969 Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	2153.0	0	1.0	1.0	2177.9	75.4	2.8	0	2198.5	243.4	3.1	0	2216.6	463.7	3.4	0	1
2	2153.0	0	1.0	1.0	2178.8	81.0	2.8	0	2199.1	249.5	3.2	0	2217.0	470.4	3.5	0	2
3	2153.0	0	1.0	1.0	2179.7	86.7	2.9	0	2199.6	254.7	2.7	0	2217.5	479.2	4.6	0	3
4	2153.0	0	1.0	1.0	2180.6	92.6	3.0	0	2200.1	259.8	2.6	0	2217.9	486.3	3.7	0	4
5	2153.0	0	1.0	1.0	2181.4	97.9	2.7	0	2200.8	267.1	3.8	0	2218.3	493.7	3.8	0	5
6	2153.0	0	1.0	1.0	2182.2	103.4	2.8	0	2201.4	273.4	3.3	0	2218.7	501.1	3.9	0	6
7	2153.0	0	1.0	1.0	2182.9	109.1	2.4	0	2201.9	278.7	2.7	0	2219.1	508.6	3.9	0	7
8	2153.0	0	1.0	1.0	2183.6	113.1	2.6	0	2202.5	285.2	3.3	0	2219.2	510.6	3.1	2.0	8
9	2153.0	0	1.0	1.0	2184.2	117.4	2.3	0	2203.0	290.5	2.8	0	2219.2	510.6	4.0	4.0	9
10	2153.0	0	1.0	1.0	2184.9	122.5	2.6	0	2203.5	295.9	2.8	0	2219.1	508.6	3.0	4.0	10
11	2153.0	0	1.0	1.0	2185.5	127.0	2.3	0	2204.2	303.5	3.9	0	2219.0	506.7	3.1	4.0	11
12	2153.0	0	1.0	1.0	2186.2	132.2	2.7	0	2204.7	308.9	2.8	0	2218.9	504.8	3.8	4.7	12
13	2153.0	0	1.0	1.0	2186.8	136.9	2.4	0	2205.3	315.6	3.4	0	2218.9	504.8	5.0	5.0	13
14	2153.0	0	0	0	2187.6	143.2	3.2	0	2205.9	322.3	3.4	0	2219.9	524.2	14.8	5.0	14
15	2153.0	0	0	0	2188.5	150.4	3.7	0	2206.5	329.1	3.4	0	2219.8	522.3	5.9	6.8	15
16	2153.0	0	0	0	2189.4	157.9	3.8	0	2207.2	337.1	4.0	0	2219.2	510.6	4.5	10.4	16
17	2153.0	0	0	0	2190.1	163.8	3.0	0	2207.7	342.8	3.0	0	2219.0	506.7	4.1	6.0	17
18	2153.0	0	0	0	2190.8	169.8	3.1	0	2208.3	349.8	3.6	0	2219.3	512.6	8.2	5.2	18
19	2153.0	0	0	0	2191.6	176.8	3.6	0	2208.9	356.8	3.6	0	2220.4	534.4	21.8	10.8	19
20	2166.6	23.2	11.7	0	2192.2	182.2	2.8	0	2209.5	364.0	3.6	0	2225.3	643.5	163.0	108.0	20
21	2167.8	27.1	2.0	0	2192.7	186.8	2.4	0	2210.0	369.9	3.1	0	2271.5	2527.2	1,500.7	551.0	21
22	2168.8	30.6	1.8	0	2193.3	192.3	2.9	0	2210.5	373.6	1.9	0	2259.6	1871.6	251.6	582.0	22
23	2170.0	35.1	2.3	0	2193.9	199.0	2.9	0	2210.8	379.7	3.2	0	2234.9	899.3	99.9	590.0	23
24	2170.9	38.7	1.9	0	2194.5	203.7	3.0	0	2211.4	387.3	3.9	0	2223.8	608.1	285.2	430.0	24
25	2171.8	42.6	2.0	0	2195.0	208.5	2.5	0	2212.3	399.0	5.9	0	2293.4	2997.7*	7,125.2	3,370.0	25
26	2172.5	46.3	1.9	0	2195.6	214.4	3.1	0	2213.3	412.8	7.0	0	2293.0	2968.4	3,215.2	3,230.0	26
27	2173.4	50.2	2.0	0	2196.2	220.3	3.0	0	2214.1	424.3	5.8	0	2274.2	1813.6	1,329.0	1,910.0	27
28	2174.2	54.3	2.1	0	2196.9	226.2	3.1	0	2214.7	433.4	4.6	0	2281.0	2180.7	579.2	394.0	28
29	2175.1	59.1	2.5	0	2197.3	231.2	2.6	0	2215.2	441.1	3.9	0	2289.1	2697.0	379.4	118.0	29
30	2176.0	64.1	2.6	0	2197.9	237.3	3.1	0	2215.7	449.0	4.0	0	2289.7	2737.7	259.8	239.0	30
31	2177.0	69.9	3.0	0					2216.2	457.0	4.1	0	2289.3	2744.4	154.7	151.0	31
TOTAL			48.7	13.0			86.2	0			112.5	0			15,447.3	13,740.9	
Inf. Ac. Ft.		96.7				171.0				223.2				30,639.2		31,129.9	
Outf. Ac. Ft.		25.7 + (1.0)				0 + (3.5)				0 + (3.4)				27,254.6 + (5.2)		27,280.3 + (13.2)	
Maximum Mean Daily Inflow		11.7				3.7				6.9				7,125.2		7,125.2	
Minimum Mean Daily Inflow		0				2.2				1.9				3.0		0	
Storage Change		+ 69.9				+ 167.3				+ 219.7				+ 2,287.4		+ 2,744.4 *	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2,301.4	feet on	2/25/69	Storage	4,777.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	2,153.0	feet on	OCTOBER 1968	Storage	0	Acre Feet	W.L. CROKE	Dam Tender	Gage Hts. copied	RAP-JSL
Max. Peak Inf.	19,905.	C.F.S. from	10:00 A.M. on 1/25/69	to	11:00 A.M.	on 1/25/69	J. R. HYDE	Hydrographer	Storage applied	RAP-JSL
Max. Peak Outf.	17,200.	C.F.S. from	5:00 A.M. on 2/25/69	to	6:00 A.M.	on 2/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL

REMARKS ( ) INDICATES PERCOLATION AND OTHER LOSSES.
* 1,092 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XIII, 1/25/69.

76D138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam

In Big Tujunga Canyon for the Year Ending September 30, 1969

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 2,758.0 Ac. Ft. at Spillway Elev. 2,290.0 Ft. as of March 1969 Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	2,289.4	2,717.3	201.6	215.0	2,256.3	1,066.0	806.3	701.0	2,243.7	698.3	151.4	166.0	2,218.1	247.7	82.5	80.0	1
2	2,284.7	2,407.9	182.3	338.0	2,264.3	1,364.7	652.8	502.0	2,242.1	659.9	158.7	178.0	2,218.8	254.7	83.5	80.0	2
3	2,287.6	2,596.6	160.5	65.0	2,265.0	1,393.7	589.8	575.0	2,241.8	652.7	194.5	198.0	2,219.4	260.7	81.1	78.0	3
4	2,290.2	2,771.8	131.2	42.6	2,276.3	1,920.7	518.1	252.0	2,237.8	559.0	153.7	201.0	2,219.8	264.6	84.1	82.0	4
5	2,270.9	1,654.9	255.9	819.0	2,272.4	1,725.8	500.9	599.0	2,231.2	417.5	184.9	256.0	2,220.4	270.7	85.1	82.0	5
6	2,265.2	1,402.1	870.6	998.0	2,267.5	1,501.0	467.9	581.0	2,225.9	333.1	181.5	224.0	2,220.3	269.7	81.5	82.0	6
7	2,240.0	610.2	486.8	886.0	2,269.1	1,572.3	433.1	397.0	2,225.9	333.1	155.1	155.0	2,220.0	266.7	79.5	81.0	7
8	2,230.0	395.7	311.9	420.0	2,272.7	1,740.2	405.9	322.0	2,230.7	408.3	140.0	102.0	2,218.9	255.7	77.5	83.0	8
9	2,222.4	291.7	281.6	334.0	2,275.1	1,858.8	387.0	327.0	2,235.1	498.0	136.3	91.0	2,218.7	253.7	76.1	77.0	9
10	2,224.5	315.6	228.1	216.0	2,276.9	1,952.2	374.2	327.0	2,237.4	549.8	123.3	97.0	2,218.7	253.7	75.1	75.0	10
11	2,223.9	308.5	216.4	220.0	2,277.5	1,984.3	348.4	332.0	2,233.4	461.4	110.5	155.0	2,218.0	246.7	73.5	77.0	11
12	2,221.9	286.3	204.8	216.0	2,280.8	2,169.1	337.4	244.0	2,228.6	372.3	105.1	150.0	2,217.2	238.9	71.1	75.0	12
13	2,227.0	348.1	196.2	165.0	2,281.4	2,204.5	309.0	291.0	2,223.2	300.5	112.8	150.0	2,217.6	242.9	72.0	70.0	13
14	2,230.0	395.7	205.0	181.0	2,282.0	2,240.2	257.4	239.0	2,221.7	284.2	113.8	121.0	2,218.5	251.7	71.5	67.0	14
15	2,222.4	291.7	238.6	291.0	2,278.6	2,044.2	278.6	377.0	2,222.7	295.0	110.5	105.0	2,219.2	258.6	70.5	67.0	15
16	2,220.6	272.8	207.5	217.0	2,273.8	1,793.8	244.1	370.0	2,222.6	293.9	105.5	106.0	2,219.0	256.6	67.1	63.0	16
17	2,227.9	361.4	168.7	124.0	2,274.1	1,808.6	261.8	254.0	2,222.0	287.3	102.8	106.0	2,219.0	256.6	63.1	63.0	17
18	2,230.4	402.9	201.0	180.0	2,273.2	1,764.4	279.0	301.0	2,217.1	238.0	97.1	122.0	2,219.0	256.6	59.1	59.0	18
19	2,235.7	511.4	165.7	111.0	2,273.2	1,764.4	244.3	244.0	2,212.5	195.4	93.6	115.0	2,218.9	255.6	59.6	60.0	19
20	2,237.6	554.4	218.7	197.0	2,273.2	1,764.4	229.4	229.0	2,212.9	198.9	91.9	90.0	2,218.7	253.7	59.1	60.0	20
21	2,239.6	600.8	165.4	142.0	2,274.0	1,803.6	264.8	245.0	2,212.8	199.1	88.6	89.0	2,218.4	250.7	58.5	60.0	21
22	2,236.1	520.3	197.4	233.0	2,272.8	1,745.0	233.7	263.0	2,211.8	189.3	87.6	92.0	2,217.9	245.7	57.6	60.0	22
23	2,249.8	857.3	499.9	330.0	2,271.3	1,673.6	216.2	252.0	2,211.1	183.3	95.0	98.0	2,217.3	239.9	54.1	57.0	23
24	2,293.0	2,968.4	2,037.4	973.0	2,271.9	1,701.9	263.7	249.0	2,217.8	244.8	106.1	75.0	2,218.0	246.7	60.5	57.0	24
25	2,293.9	3,034.3	7,803.2	7,770.0	2,270.9	1,654.9	212.8	236.0	2,219.7	263.7	90.6	81.0	2,217.4	240.9	53.1	56.0	25
26	2,291.8	2,882.9	1,853.9	1,930.0	2,269.6	1,595.0	207.3	237.0	2,218.8	254.7	86.6	91.0	2,217.6	242.9	54.1	53.0	26
27	2,274.3	1,818.7	1,254.7	1,791.0	2,267.9	1,518.6	196.9	235.0	2,218.3	249.7	87.6	90.0	2,219.4	260.7	59.1	50.0	27
28	2,249.8	857.3	995.4	1,480.0	2,266.4	1,453.2	199.4	232.0	2,215.6	223.7	78.9	92.0	2,220.2	268.7	56.1	52.0	28
29					2,256.7	1,079.6	184.0	372.0	2,218.3	249.7	96.2	83.0	2,219.5	261.7	49.5	53.0	29
30					2,245.8	749.9	185.0	352.0	2,217.6	242.9	80.6	84.0	2,219.9	265.7	52.1	50.0	30
31					2,244.9	727.6	162.9	174.0					2,219.1	257.6	45.1	49.0	31
TOTAL			19,940.4	20,889.6			10,253.9	10,311.0			3,521.4	3,763.0			2,073.1	2,063.0	

	FEBRUARY	MARCH	APRIL	MAY	
Inf. Ac. Ft.	39,551.3	20,338.3	6,984.7	4,112.1	102,116.3
Outf. Ac. Ft.	41,433.9 + (4.6)	20,451.5 + (16.4)	7,463.8 + (5.7)	4,091.9 + (5.4)	100,721.4 + (45.3)
Maximum Mean Daily Inflow	7,803.2	806.2	194.5	85.0	7,803.2
Minimum Mean Daily Inflow	131.2	162.9	78.9	45.0	0
Storage Change	− 1,887.1	− 129.6	− 484.7	+ 14.7	+ 257.6 *

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2,301.4	feet	on	2/25/69	Storage	4,777.8	Acre Feet			
Min. W. S. Elev.	2,153.0	feet	on	OCTOBER 1968	Storage	0	Acre Feet			
Max. Peak Inf.	19,506.	C. F. S. from	10:00 A.M.	on	1/25/69	to	11:00 A.M.	on	1/25/69	
Max. Peak Outf.	17,200	C. F. S. from	5:00 A.M.	on	2/25/69	to	6:00 A.M.	on	2/25/69	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
W. L. CROKE	Dam Tender	Gage Hts. copied	RAP-JSL	
J. R. HYDE	Hydrographer	Storage applied	RAP-JSL	
	Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS ( ) INDICATES PERCOLATION AND OTHER LOSSES

* 1,092 ACRE-FOOT LOSS DUE TO SILTATION.

76D138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam

In Big Tujunga Canyon for the Year Ending September 30, 1969

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 3,819.0 2,758.0 Ac. Ft. at Spillway Elev. 2,290.0 Ft. as of March 1969 Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	2,221.2	278.9	60.9	50.0	2,220.0	266.7	27.7	22.0			17.9	17.9			10.5	10.5	1
2	2,220.7	273.8	49.5	52.0	2,220.8	274.8	23.3	24.0			17.2	17.2			10.5	10.5	2
3	2,219.6	262.7	47.4	53.0	2,221.2	278.9	29.2	27.0			16.5	16.5			10.5	10.5	3
4	2,219.6	262.7	52.1	52.0	2,221.5	282.1	28.7	27.0			16.0	16.0			10.5	10.5	4
5	2,218.7	253.7	45.5	50.0	2,221.6	283.1	27.6	27.0			15.6	15.6			10.5	10.5	5
6	2,219.0	256.6	50.5	49.0	2,222.1	288.5	28.7	26.0			14.9	14.9			10.5	10.5	6
7	2,219.8	264.7	53.1	49.0	2,222.0	287.3	30.5	31.0			14.2	14.2			10.5	10.5	7
8	2,219.5	261.7	47.5	49.0	2,220.7	273.8	27.3	34.0			14.2	14.2			10.5	10.5	8
9	2,219.3	259.6	49.1	50.0	2,219.1	257.6	24.9	33.0			14.2	14.2			10.4	10.4	9
10	2,219.6	262.7	50.5	49.0	2,218.6	252.7	25.6	28.0			14.2	14.2			10.4	10.4	10
11	2,219.8	264.7	51.0	50.0	2,219.3	259.6	28.6	25.0			14.1	14.1			10.4	10.4	11
12	2,220.7	273.8	52.7	48.0	2,220.7	273.8	33.2	26.0			14.1	14.1			10.4	10.4	12
13	2,220.1	267.7	47.9	51.0	2,221.0	276.9	27.7	26.0			14.1	14.1			10.3	10.3	13
14	2,218.3	249.7	43.0	52.0	2,221.0	276.9	26.1	26.0			14.1	14.1			10.3	10.3	14
15	2,220.9	275.9	53.2	40.0	2,221.0	276.9	26.1	26.0			14.1	14.1			10.3	10.3	15
16	2,220.6	272.8	43.5	45.0	2,221.0	276.9	26.1	26.0			13.6	13.6			10.3	10.3	16
17	2,219.7	263.7	42.5	47.0	2,221.0	276.9	26.1	26.0		NO STORAGE	13.1	13.1		NO STORAGE	10.3	10.3	17
18	2,220.1	267.7	44.1	42.0	2,218.8	254.7	18.9	30.0			12.6	12.6			10.2	10.2	18
19	2,220.6	272.8	41.7	39.0	2,214.2	210.7	13.9	36.0			12.1	12.1			10.2	10.2	19
20	2,220.8	274.8	41.1	40.0	2,210.0	173.9	17.5	36.0			11.6	11.6			10.2	10.2	20
21	2,221.4	281.1	43.2	40.0	2,206.4	144.8	18.3	33.0			11.1	11.1			10.2	10.2	21
22	2,220.7	273.8	40.4	44.0	2,176.0	0	19.0	83.0			10.8	10.8			10.1	10.1	22
23	2,219.1	257.6	34.9	43.0			20.0	44.0			10.6	10.6			10.1	10.1	23
24	2,219.6	262.7	38.6	36.0			20.0	20.0			10.6	10.6			10.1	10.1	24
25	2,220.2	268.7	37.1	34.0			20.0	20.0			10.6	10.6			10.1	10.1	25
26	2,219.6	262.7	33.0	36.0			19.0	19.0			10.6	10.6			10.1	10.1	26
27	2,218.8	254.7	31.1	35.0		NO STORAGE	19.0	19.0			10.5	10.5			10.0	10.0	27
28	2,218.6	252.7	30.1	31.0			19.0	19.0			10.5	10.5			10.0	10.0	28
29	2,218.4	250.7	27.1	28.0			18.0	18.0			10.5	10.5			10.0	10.0	29
30	2,218.9	255.7	26.6	24.0			18.0	18.0			10.5	10.5			10.0	10.0	30
31							17.9	17.9			10.5	10.5					31
TOTAL			1,309.3	1,308.0			746.2	872.9			405.2	405.2			308.4	308.4	

	JUNE	JULY	AUGUST	SEPTEMBER	
Inf. Ac. Ft.	2,596.9	1,480.2	803.7	611.7	107,608.8
Outf. Ac. Ft.	2,594.3 + (4.5)	1,731.3 + (4.5)	803.7 + (0)	611.7 + (0)	106,462.4 + (54.3)
Maximum Mean Daily Inflow	60.8	33.2	17.9	10.5	7,803.2
Minimum Mean Daily Inflow	26.6	17.9	10.5	10.0	0
Storage Change	− 1.9	− 255.6	0	0	0 *

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2,301.4	feet	on	2/25/69	Storage	4,777.8	Acre Feet			
Min. W. S. Elev.	2,153.0	feet	on	OCTOBER 1968	Storage	0	Acre Feet			
Max. Peak Inf.	19,506.	C. F. S. from	10:00 A.M.	on	1/25/69	to	11:00 A.M.	on	1/25/69	
Max. Peak Outf.	17,200.	C. F. S. from	5:00 A.M.	on	2/25/69	to	6:00 A.M.	on	2/25/69	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
W. L. CROKE	Dam Tender	Gage Hts. copied	RAP-JSL	
J. R. HYDE	Hydrographer	Storage applied	RAP-JSL	
	Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS ( ) INDICATES PERCOLATION AND OTHER LOSSES.

(1) 1,092 ACRE-FOOT LOSS DUE TO SILTATION.

76D138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam

On Arroyo Seco for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2,598.0 Ac. Ft. at Spillway Elev. 1,054.0 Ft. as of September 1966

Gage Heights Read Daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1,025.9	204.0	1.0	0.1	1,023.1	114.0	0.5	0.1
2	1,025.8	200.5	0.9	0.1	1,023.0	111.0	0.5	0.1
3	1,025.7	197.0	1.0	0.1	1,022.9	108.5	0.8	0.1
4	1,025.6	193.5	0.8	0.1	1,022.9	108.5	0.7	0.1
5	1,025.5	190.0	0.8	0.1	1,022.8	105.9	0.7	0.1
6	1,025.5	190.0	0.8	0.1	1,022.7	103.3	0.5	0.1
7	1,025.4	186.4	0.8	0.1	1,022.6	100.7	0.6	0.1
8	1,025.3	182.9	0.7	0.1	1,022.5	98.1	0.6	0.1
9	1,025.2	179.4	0.8	0.1	1,022.4	95.5	0.6	0.1
10	1,025.1	175.9	0.6	0.1	1,022.3	92.9	0.6	0.1
11	1,025.0	172.4	0.7	0.1	1,022.3	92.9	0.5	0.1
12	1,024.9	169.1	0.7	0.1	1,022.2	90.3	0.5	0.1
13	1,024.8	165.9	0.8	0.1	1,022.1	87.7	0.5	0.1
14	1,024.7	162.7	0.8	0.1	1,022.0	85.2	0.5	0.1
15	1,024.6	159.5	0.8	0.1	1,022.0	85.2	0.5	0.1
16	1,024.5	156.3	0.6	0.1	1,021.9	82.9	0.8	0.1
17	1,024.4	153.3	0.7	0.1	1,021.8	80.7	0.6	0.1
18	1,024.3	149.8	0.7	0.1	1,021.8	80.7	0.5	0.1
19	1,024.2	146.6	0.5	0.1	1,043.3	1,360.9	698.4	28.0
20	1,024.1	143.4	0.7	0.1	1,043.3	1,360.9	159.0	134.0
21	1,024.0	140.2	0.7	0.1	1,042.2	1,255.0	418.6	450.0
22	1,024.0	140.2	0.7	0.1	1,040.3	1,082.5	73.1	142.0
23	1,023.9	137.2	0.8	0.1	1,040.7	1,117.7	36.8	0.1
24	1,023.8	134.3	0.7	0.1	1,040.8	1,126.5	23.6	0.1
25	1,023.7	131.4	0.8	0.1	1,040.9	1,135.3	23.8	0.1
26	1,023.6	128.5	0.7	0.1	1,040.8	1,126.5	14.8	0.1
27	1,023.5	125.6	0.7	0.1	1,040.8	1,126.5	19.2	0.1
28	1,023.4	122.7	0.6	0.1	1,040.8	1,126.5	19.2	0.1
29	1,023.3	119.8	0.6	0.1	1,040.8	1,126.5	19.2	0.1
30	1,023.2	116.9	0.7	0.1	1,040.0	1,056.1	46.0	64.0
31	1,023.2	116.9	0.6	0.1				
TOTAL			22.9	3.1			1,562.1	820.5
Inf. Ac. Ft.	45.4				3,098.4			
Outf. Ac. Ft.	6.1 + (129.9)				1,627.4 + (531.8)			
Maximum Mean Daily Inflow	1.0				698.4			
Minimum Mean Daily Inflow	0.6				0.5			
Storage Change	− 90.6				+ 939.1			

Day	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Year
1	1,039.3	997.0	37.4	51.0	1,038.6	939.5	10.9	0.1	
2	1,039.1	980.1	7.4	0.1	1,038.5	931.5	10.8	0.1	
3	1,039.0	971.7	11.4	0.1	1,038.4	923.4	10.5	0.1	
4	1,038.9	963.6	11.5	0.1	1,038.3	915.4	10.4	0.1	
5	1,038.8	955.6	11.2	0.1	1,038.2	907.3	10.2	0.1	
6	1,038.6	939.5	6.9	0.1	1,038.2	907.3	14.3	0.1	
7	1,038.5	931.5	10.8	0.1	1,038.1	899.3	10.0	0.1	
8	1,038.3	915.4	6.3	0.1	1,038.0	891.3	9.9	0.1	
9	1,038.1	899.3	5.9	0.1	1,037.9	883.6	9.8	0.1	
10	1,038.0	891.3	9.9	0.1	1,037.9	883.6	9.8	0.1	
11	1,037.9	883.6	9.8	0.1	1,037.8	875.9	9.8	0.1	
12	1,037.8	875.9	9.7	0.1	1,037.8	875.9	9.6	0.1	
13	1,037.8	875.9	9.6	0.1	1,037.7	868.3	9.5	0.1	
14	1,037.7	868.3	9.6	0.1	1,037.6	860.6	9.5	0.1	
15	1,037.7	868.3	9.5	0.1	1,037.5	853.0	9.3	0.1	
16	1,037.7	868.3	9.5	0.1	1,037.4	845.3	9.0	0.1	
17	1,037.6	860.6	9.4	0.1	1,037.3	837.6	8.9	0.1	
18	1,038.9	963.6	67.5	0.1	1,037.2	830.0	8.8	0.1	
19	1,039.6	1,022.3	46.4	0.1	1,037.1	822.3	8.6	0.1	
20	1,039.4	1,005.4	7.9	0.1	1,037.0	814.7	8.5	0.1	
21	1,039.3	997.0	12.1	0.1	1,036.9	807.4	8.4	0.1	
22	1,039.2	988.5	11.8	0.1	1,036.8	800.1	8.3	0.1	
23	1,039.2	988.5	11.7	0.1	1,036.7	792.8	8.3	0.1	
24	1,039.2	988.5	11.7	0.1	1,036.6	785.5	8.0	0.1	
25	1,039.1	980.1	11.7	0.1	1,036.5	778.3	7.8	0.1	
26	1,039.1	980.1	11.5	0.1	1,036.5	778.3	7.8	0.1	
27	1,039.0	971.7	11.4	0.1	1,037.3	837.6	42.7	0.1	
28	1,038.9	963.6	11.5	0.1	1,037.3	837.6	12.8	0.1	
29	1,038.8	955.6	11.2	0.1	1,037.3	837.6	12.8	0.1	
30	1,038.8	955.6	11.1	0.1	1,037.2	830.0	8.8	0.1	
31	1,038.7	947.6	11.2	0.1	1,037.2	830.0	8.8	0.1	
TOTAL			434.5	54.0			332.6	3.1	
Inf. Ac. Ft.	861.8				659.7				4,665.3
Outf. Ac. Ft.	107.1 + (863.2)				6.1 + (771.0)				1,746.7 +(2,295.9)
Maximum Mean Daily Inflow	67.5				42.7				698.4
Minimum Mean Daily Inflow	5.9				7.8				0.5
Storage Change	−108.5				− 117.5				+ 622.4

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,045.1	feet	on	11/21/67	Storage	1,542.4	Acre Feet		
Min. W. S. Elev.	986.0	feet	on	AUG. & SEPT.	Storage	0	Acre Feet		
Max. Peak Inf.	1,311.6	C. F. S. from	3:00 A.M.	on	11/19/67	to	4:00 A.M.	on	11/19/67
Max. Peak Outf.	600.0	C. F. S. from	1:30 P.M.	on	11/21/67	to	4:00 A.M.	on	11/22/67

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
R. GARRISON	Dam Tender	Gage Hts. copied	GF JSL	
R. V. WOOD	Hydrographer	Storage applied	GF JSL	
	Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam

On ARROYO SECO for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Au

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2,598.2 Ac. Ft. at Spillway Elev. 1,054.0 Ft. as of September 19 66

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1,037.1	822.3	8.6	0.1	1,035.60	714.1	6.8	0.1
2	1,037.0	814.7	8.5	0.1	1,035.5	707.2	6.6	0.1
3	1,036.9	807.4	8.4	0.1	1,035.4	700.3	6.5	0.1
4	1,036.8	800.1	9.3	0.1	1,035.4	700.3	6.4	0.1
5	1,036.6	785.5	4.4	0.1	1,035.3	693.3	6.4	0.1
6	1,036.5	778.3	7.8	0.1	1,035.2	686.4	6.3	0.1
7	1,036.5	778.3	7.8	0.1	1,036.4	771.0	54.1	0.1
8	1,036.4	771.0	7.8	0.1	1,037.8	875.9	184.3	118.0
9	1,036.7	792.8	22.8	0.1	1,036.4	871.0	19.5	61.0
10	1,036.6	785.5	8.1	0.1	1,036.3	763.7	7.6	0.1
11	1,036.5	778.3	7.8	0.1	1,036.2	756.4	7.4	0.1
12	1,036.5	778.3	7.8	0.1	1,036.1	749.1	7.2	0.1
13	1,036.9	807.4	26.8	0.1	1,036.2	756.4	14.8	0.1
14	1,037.0	814.7	16.0	0.1	1,036.2	756.4	7.2	0.1
15	1,036.9	807.4	8.4	0.1	1,036.1	749.1	7.2	0.1
16	1,036.8	800.1	8.3	0.1	1,036.0	741.9	7.2	0.1
17	1,036.7	792.8	8.2	0.1	1,035.9	734.9	7.2	0.1
18	1,036.6	785.5	8.1	0.1	1,035.8	728.0	7.0	0.1
19	1,036.5	778.3	7.8	0.1	1,035.7	721.1	6.9	0.1
20	1,036.5	778.3	7.9	0.1	1,035.6	714.1	6.8	0.1
21	1,036.4	771.0	7.8	0.1	1,035.5	707.2	6.6	0.1
22	1,036.3	763.7	7.6	0.1	1,035.4	700.3	6.5	0.1
23	1,036.2	756.4	7.4	0.1	1,035.3	693.3	6.4	0.1
24	1,036.1	749.1	7.2	0.1	1,035.2	686.4	6.3	0.1
25	1,036.0	741.9	7.2	0.1	1,035.1	679.5	6.1	0.1
26	1,035.9	734.9	7.2	0.1	1,035.1	679.5	6.1	0.1
27	1,035.9	734.9	7.1	0.1	1,035.0	672.6	6.0	0.1
28	1,035.8	728.0	7.0	0.1	1,034.9	666.0	6.1	0.1
29	1,035.7	721.1	6.9	0.1	1,034.8	659.4	6.0	0.1
30					1,034.7	652.8	5.8	0.1
31					1,034.6	646.3	5.7	0.1
TOTAL			265.0	2.9			451.0	181.9
Inf. Ac. Ft.	525.6				894.5			
Outf. Ac. Ft.	5.7 + (628.8)				360.8 + (608.5)			
Maximum Mean Daily Inflow	26.8				184.3			
Minimum Mean Daily Inflow	4.4				5.7			
Storage Change	− 108.9				− 74.7			

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Year
1	1,035.3	693.3	33.6	0.1	1,032.8	533.1	4.0	0.1	
2	1,035.4	700.3	13.5	0.1	1,032.7	527.2	3.7	0.1	
3	1,035.3	693.3	6.4	0.1	1,032.6	521.4	3.3	0.1	
4	1,035.2	686.4	6.3	0.1	1,032.5	515.6	3.8	0.1	
5	1,035.1	679.5	6.1	0.1	1,032.4	509.7	3.6	0.1	
6	1,035.0	672.6	6.1	0.1	1,032.3	503.9	3.6	0.1	
7	1,034.9	666.0	6.0	0.1	1,032.2	499.0	3.4	0.1	
8	1,034.8	659.4	6.0	0.1	1,032.2	499.0	3.4	0.1	
9	1,034.7	652.8	5.8	0.1	1,032.1	492.2	3.4	0.1	
10	1,034.6	646.3	5.7	0.1	1,032.0	485.4	3.2	0.1	
11	1,034.6	646.3	5.5	0.1	1,031.9	480.9	3.4	0.1	
12	1,034.5	639.7	5.6	0.1	1,031.9	480.9	3.3	0.1	
13	1,034.4	633.1	5.4	0.1	1,031.8	475.4	3.2	0.1	
14	1,034.3	626.6	5.5	0.1	1,031.7	469.9	3.2	0.1	
15	1,034.2	620.0	5.1	0.1	1,031.6	464.4	3.1	0.1	
16	1,034.1	613.4	5.1	0.1	1,031.5	458.9	3.1	0.1	
17	1,034.0	606.9	5.0	0.1	1,031.5	458.9	3.1	0.1	
18	1,033.9	600.6	5.1	0.1	1,031.4	453.4	2.9	0.1	
19	1,033.8	594.4	4.9	0.1	1,031.3	447.9	2.8	0.1	
20	1,033.7	589.2	4.8	0.1	1,031.2	442.4	2.8	0.1	
21	1,033.6	582.0	4.6	0.1	1,031.2	442.4	2.7	0.1	
22	1,033.5	575.8	4.6	0.1	1,031.1	436.9	2.8	0.1	
23	1,033.5	575.8	4.5	0.1	1,031.0	431.5	2.7	0.1	
24	1,033.4	569.6	4.5	0.1	1,030.9	426.3	2.6	0.1	
25	1,033.3	563.4	4.4	0.1	1,030.8	421.2	2.7	0.1	
26	1,033.2	557.2	4.1	0.1	1,030.7	416.0	2.5	0.1	
27	1,033.1	551.0	4.1	0.1	1,030.6	410.9	2.6	0.1	
28	1,033.0	544.8	4.0	0.1	1,030.6	410.9	2.5	0.1	
29	1,032.9	538.9	4.0	0.1	1,030.5	405.7	2.3	0.1	
30	1,032.9	538.9	4.0	0.1	1,030.4	400.6	2.4	0.1	
31					1,030.3	395.4	2.2	0.1	
TOTAL			190.3				94.8	3.1	
Inf. Ac. Ft.	377.5				188.1				6,651.0
Outf. Ac. Ft.	5.9 + (479.0)				6.1 + (325.4)				2,125.2 + (4,337.6)
Maximum Mean Daily Inflow	33.6				4.0				698.4
Minimum Mean Daily Inflow	3.9				2.2				0.5
Storage Change	− 107.3				− 143.5				+ 187.8

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,045.1	feet	on	11/21/67	Storage	1,542.4	Acre Feet		
Min. W. S. Elev.	986.0	feet	on	AUG. & SEPT.	Storage	0	Acre Feet		
Max. Peak Inf.	1,311.6	C. F. S. from	3:00 A.M.	on	11/19/67	to	4:00 A.M.	on	11/19/67
Max. Peak Outf.	600.0	C. F. S. from	1:30 P.M.	on	11/21/67	to	4:00 A.M.	on	11/22/67

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
R. GARRISON.	Dam Tender	Gage Hts. copied	GF JSL	
R. V. WOOD	Hydrographer	Storage applied	GF JSL	
	Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam
On Arroyo Seco for the Year Ending September 30, 19 68
Continuous Water Stage Recorder Au
Drainage Area 31.9 Square Miles. Capacity of Reservoir 2,598.2 Ac. Ft. at Spillway Elev. 1,054.0 Ft. as of September 19 66 Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1,030.2	390.3	2.2	0.1	1,027.70	274.85	1.40	0.10	1,025.20	179.44	0.36	0.10	986.00	0.00	0.00	0.00	1
2	1,030.2	390.3	2.2	0.1	1,027.60	270.70	1.40	0.10	1,025.10	175.92	0.36	0.10	986.00	0.00	0.00	0.00	2
3	1,030.1	385.1	2.1	0.1	1,027.50	266.55	1.30	0.10	1,025.00	172.40	0.36	0.10	986.00	0.00	0.00	0.00	3
4	1,030.0	380.0	2.0	0.1	1,027.50	266.55	3.40	0.10	1,025.00	172.40	0.36	0.10	986.00	0.00	0.00	0.00	4
5	1,029.9	375.2	2.1	0.1	1,027.40	262.40	1.20	0.10	1,024.90	169.18	0.36	0.10	986.00	0.00	0.00	0.00	5
6	1,029.8	370.4	2.1	0.1	1,027.30	258.25	1.20	0.10	1,024.80	165.96	0.36	0.10	986.00	0.00	0.00	0.00	6
7	1,029.7	365.6	2.0	0.1	1,027.20	254.10	1.20	0.10	1,024.80	165.96	0.35	0.10	986.00	0.00	0.00	0.00	7
8	1,029.6	360.8	2.0	0.1	1,027.20	254.10	3.30	0.10	1,024.70	162.74	0.36	0.10	986.00	0.00	0.00	0.00	8
9	1,029.6	360.8	1.9	0.1	1,027.10	249.95	1.10	0.10	1,024.60	159.52	0.36	0.10	986.00	0.00	0.00	0.00	9
10	1,029.5	356.0	1.8	0.1	1,027.00	245.80	1.10	0.10	1,024.50	156.30	0.36	0.10	986.00	0.00	0.00	0.00	10
11	1,029.4	351.2	1.8	0.1	1,026.90	241.98	1.27	0.10	1,024.50	156.30	0.36	0.10	986.00	0.00	0.00	0.00	11
12	1,029.3	346.4	1.8	0.1	1,026.80	238.16	1.17	0.10	1,024.40	153.08	0.36	0.10	986.00	0.00	0.00	0.00	12
13	1,029.2	341.6	1.7	0.1	1,026.80	238.16	3.10	0.10	1,024.30	149.86	0.36	0.10	986.00	0.00	0.00	0.00	13
14	1,029.1	336.8	1.7	0.1	1,026.70	234.34	1.17	0.10	1,024.20	146.64	0.36	0.10	986.00	0.00	0.00	0.00	14
15	1,029.0	332.0	1.5	0.1	1,026.60	230.52	1.07	0.10	1,024.10	143.42	0.37	0.10	986.00	0.00	0.00	0.00	15
16	1,029.0	332.0	1.7	0.1	1,026.50	226.70	1.07	0.10	1,024.10	143.42	0.37	0.10	986.00	0.00	0.00	0.00	16
17	1,028.9	327.5	1.8	0.1	1,026.40	222.88	0.97	0.10	1,024.00	140.20	0.37	0.10	986.00	0.00	0.00	0.00	17
18	1,028.8	323.0	1.6	0.1	1,026.40	222.88	2.90	0.10	1,024.00	140.20	0.37	0.10	986.00	0.00	0.00	0.00	18
19	1,028.7	318.5	1.6	0.1	1,026.30	219.06	0.97	0.10	1,023.90	137.29	0.37	0.10	986.00	0.00	0.00	0.00	19
20	1,028.6	314.1	1.6	0.1	1,026.20	215.24	0.87	0.10	1,023.80	134.38	0.37	0.10	986.00	0.00	0.00	0.00	20
21	1,028.5	309.6	1.5	0.1	1,026.10	211.42	0.87	0.10	1,023.40	122.74	0.37	3.70	986.00	0.00	0.00	0.00	21
22	1,028.4	305.1	1.6	0.1	1,026.00	207.60	0.87	0.10	1,022.50	98.15	0.37	9.10	986.00	0.00	0.00	0.00	22
23	1,028.3	300.7	1.5	0.1	1,025.90	204.08	1.02	0.10	1,021.60	76.20	0.37	8.70	986.00	0.00	0.00	0.00	23
24	1,028.3	300.7	1.6	0.1	1,025.80	200.56	1.02	0.10	1,020.40	51.48	0.37	9.40	986.00	0.00	0.00	0.00	24
25	1,028.2	296.2	1.4	0.1	1,025.80	200.56	2.70	0.10	1,018.20	21.44	0.37	7.70	986.00	0.00	0.00	0.00	25
26	1,028.1	291.7	1.3	0.1	1,025.70	197.04	0.92	0.10	986.00	0.00	0.37	8.00	986.00	0.00	0.00	0.00	26
27	1,028.0	287.3	1.4	0.1	1,025.60	193.52	0.92	0.10	986.00	0.00	0.10	0.10	986.00	0.00	0.00	0.00	27
28	1,027.9	283.1	1.5	0.1	1,025.50	190.00	0.82	0.10	986.00	0.00	0.10	0.10	986.00	0.00	0.00	0.00	28
29	1,027.9	283.1	1.5	0.1	1,025.40	186.48	0.82	0.10	986.00	0.00	0.10	0.10	986.00	0.00	0.00	0.00	29
30	1,027.8	279.0	1.4	0.1	1,025.30	182.96	0.82	0.10	986.00	0.00	0.10	0.10	986.00	0.00	0.00	0.00	30
31					1,025.20	179.44	0.82	0.10	986.00	0.00	0.10	0.10					31
TOTAL			51.9	3.0			42.90	3.10			9.5	48.1			0.00	0.00	
Inf. Ac. Ft.		102.9				85.1				18.8				0		6,857.8	
Outf. Ac. Ft.		5.9 + (213.4)				6.1 + (178.5)				95.4 + (103.9)				0		2,232.6 +(4,833.4)	
Maximum Mean Daily Inflow		2.2				3.4				0.4				0		698.4	
Minimum Mean Daily Inflow		1.3				0.8				0.1				0		0	
Storage Change		− 116.4				− 99.5				− 179.4			0			− 207.6	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,045.1	feet	on	11/21/67	Storage	1,542.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	986.0	feet	on	AUG. & SEPT.	Storage	0	Acre Feet	R. GARRISON	Dam Tender	Gage Hts. copied	GF	JSL
Max. Peak Inf.	1,311.6	C.F.S. from		3:00 A.M. on 11/19/67	to	4:00 A.M.	on 11/19/67	R. V. WOOD	Hydrographer	Storage applied	GF	JSL
Max. Peak Outf.	600.0	C.F.S. from		1:30 P.M. on 11/21/67	to	4:00 A.M.	on 11/22/67		Hydrographer	Inf. & Outf. comp.	GF	JSL

REMARKS) INDICATES AVERAGE FOR PERIOD
( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam
On Arroyo Seco for the Year Ending September 30, 19 69
Continuous Water Stage Recorder Au
Drainage Area 31.9 Square Miles. Capacity of Reservoir 2,598.2 / 2,106.2 Ac. Ft. at Spillway Elev. 1,054.0 Ft. as of February 1969 / September 1966 Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1			0	0	1,003.0	0.9	0.9	0	1,005.7	1.4	1.3	0	1,017.1	13.3	5.2	0	1
2			0	0	1,002.7	0.9	0.8	0	1,005.4	1.3	1.3	0	1,016.9	12.2	5.4	0	2
3			0	0	1,002.5	0.8	0.8	0	1,005.2	1.3	1.2	0	1,016.6	10.9	5.1	0	3
4			0	0	1,002.2	0.8	0.8	0	1,005.0	1.2	1.2	0	1,016.3	9.6	4.8	0	4
5			0	0	1,002.0	0.8	0.8	0	1,004.7	1.2	1.2	0	1,016.2	9.1	5.3	0	5
6			0	0	1,001.8	0.8	0.8	0	1,004.5	1.1	1.2	0	1,015.8	7.8	4.4	0	6
7			0	0	1,001.5	0.7	0.8	0	1,004.3	1.1	1.1	0	1,015.5	7.0	4.5	0	7
8			0	0	1,001.3	0.7	0.8	0	1,004.1	1.1	1.1	0	1,015.3	6.6	4.4	0	8
9			0	0	1,001.0	0.7	0.8	0	1,003.8	1.0	1.1	0	1,015.1	6.1	4.4	0	9
10	997.0	0.3	0.8	0	1,000.9	0.7	0.8	0	1,003.6	1.0	1.0	0	1,014.8	5.6	4.1	0	10
11	996.9	0.3	0.4	0	1,000.7	0.6	0.8	0	1,007.4	1.7	2.2	0	1,014.6	5.3	4.2	0	11
12	996.9	0.3	0.5	0	1,000.5	0.6	0.8	0	1,006.9	1.6	1.6	0	1,014.3	4.9	3.9	0	12
13	996.8	0.3	0.5	0	1,000.3	0.6	0.8	0	1,006.5	1.5	1.6	0	1,022.6	100.7	61.5	0	13
14	996.7	0.3	0.5	0	1,000.5	0.6	0.8	0	1,006.3	1.5	1.5	0	1,022.8	105.9	15.1	0	14
15	996.6	0.3	0.5	0	1,012.2	3.2	4.5	0	1,006.2	1.5	1.5	0	1,022.6	100.7	10.6	0	15
16	996.5	0.3	0.4	0	1,011.4	2.8	2.7	0	1,014.9	5.7	6.5	0	1,022.5	98.2	11.7	0	16
17	996.3	0.3	0.4	0	1,010.5	2.5	2.3	0	1,014.2	4.8	3.5	0	1,022.3	93.0	10.1	0	17
18	996.2	0.3	0.4	0	1,010.0	2.4	2.2	0	1,013.7	4.2	3.5	0	1,023.9	137.3	37.7	0	18
19	996.1	0.3	0.4	0	1,009.5	2.2	2.1	0	1,013.2	3.8	3.4	0	1,027.1	250.0	79.7	0.7	19
20	996.0	0.3	0.4	0	1,009.0	2.1	2.1	0	1,012.7	3.4	3.2	0	1,037.8	876.0	368.1	3.0	20
21	995.9	0.3	0.4	0	1,008.6	2.0	2.0	0	1,012.2	3.2	3.0	0	1,038.9	963.7	1,206.7	1,110.0	21
22	995.9	0.3	0.4	0	1,008.2	1.9	1.9	0	1,011.7	2.9	2.9	0	1,039.8	1,039.2	709.1	616.0	22
23	995.9	0.3	0.4	0	1,007.9	1.8	1.9	0	1,011.1	2.7	2.6	0	1,040.1	1,064.9	150.8	82.0	23
24	995.9	0.3	0.4	0	1,007.5	1.7	1.8	0	1,010.8	2.6	2.6	0	1,045.4	1,573.8	519.2	192.0	24
25	995.8	0.3	0.4	0	1,007.2	1.7	1.7	0	1,019.0	29.6	21.8	0	1,052.5	1,921.9*	4,221.8	3,750.0	25
26	995.8	0.3	0.4	0	1,006.9	1.5	1.7	0	1,019.0	29.6	8.2	0	1,044.7	1,108.9	1,445.7	1,320.0	26
27	995.8	0.3	0.4	0	1,006.6	1.5	1.6	0	1,018.7	26.5	6.3	0	1,039.8	730.2	662.5	330.0	27
28	995.7	0.3	0.4	0	1,006.4	1.5	1.5	0	1,018.3	22.5	5.3	0	1,042.0	885.7	393.2	286.0	28
29	995.7	0.3	0.4	0	1,006.1	1.4	1.4	0	1,018.3	19.4	5.4	0	1,045.7	1,199.4	223.4	27.0	29
30	1,003.7	1.0	1.4	0	1,005.9	1.4	1.4	0	1,017.7	17.4	5.7	0	1,048.0	1,422.4	171.7	14.9	30
31	1,003.3	1.0	1.0	0					1,017.4	15.3	5.5	0	1,046.6	1,284.4	163.0	192.0	31
TOTAL			11.0	0			43.9	0			109.3	0			10,519.7	8,923.6	
Inf. Ac. Ft.		21.9				87.1				216.8				20,863.6		21,189.4	
Outf. Ac. Ft.		0 + (21.0)				0 + (86.6)				0 + (202.9)				17,699.7 + (1,417.3)		17,699.7+(1,727.8)	
Maximum Mean Daily Inflow		1.3				4.4				21.8				4,221.8		4,221.8	
Minimum Mean Daily Inflow		0				0.7				0.9				3.8		0	
Storage Change		+ .09				+ 0.4				+ 13.9				+ 1,269.0		+ 1,284.4 (1)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,059.8	feet	on	1/25/69	Storage	3,465.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	989.0	feet	on	OCTOBER	Storage	0	Acre Feet	R. GARRISON	Dam Tender	Gage Hts. copied	RAP	JSL
Max. Peak Inf.	9,438.0	C.F.S. from		8:00 A.M. on 1/25/69	to	9:00 A.M.	on 1/25/69	R. V. WOOD	Hydrographer	Storage applied	RAP	JSL
Max. Peak Outf.	7,105.0	C.F.S. from		11:00 A.M. on 1/25/69	to	12:00 NOON	on 1/25/69		Hydrographer	Inf. & Outf. comp.	RAP	JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.
* 477.5 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE NO. XIII 1/25/69. SURVEY OF FEBRUARY 1969.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam

On Arroyo Seco for the Year Ending September 30, 1969

Drainage Area 31.9 Square Miles. Capacity of Reservoir 1,875.1 / 2,106.2 / 2,598.2 Ac. Ft. at Spillway Elev. 1,054.0 Ft. as of March 1969 / February 1969 / September 1966

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,044.8	1,117.7	143.9	192.0	1,038.4	490.0	322.8	335.0	1,049.6	1,377.7	4.5	0	1,047.5	1,170.7	1.9	0	1
2	1,042.6	932.9	117.1	180.0	1,039.8	571.8	287.5	244.0	1,049.7	1,387.9	20.3	0	1,047.3	1,151.8	1.9	0	2
3	1,039.8	730.2	91.3	170.0	1,040.8	635.1	248.5	214.0	1,050.1	1,429.4	38.7	0	1,047.2	1,142.4	1.9	0	3
4	1,039.2	692.0	70.9	68.0	1,041.8	702.7	192.1	155.0	1,050.1	1,429.4	15.8	0	1,047.0	1,123.6	1.9	0	4
5	1,040.1	749.8	150.3	97.0	1,042.2	731.0	142.5	125.0	1,050.6	1,483.0	43.7	0	1,046.8	1,105.6	2.0	0	5
6	1,040.8	798.0	742.2	692.0	1,042.1	723.7	124.4	125.0	1,051.0	1,525.9	39.1	0	1,046.7	1,096.6	2.0	0	6
7	1,040.0	742.9	171.2	175.0	1,041.6	689.0	110.4	125.0	1,051.0	1,525.9	17.5	0	1,046.5	1,078.7	2.0	0	7
8	1,039.2	692.0	121.5	125.0	1,040.9	641.5	99.7	121.0	1,050.7	1,493.7	0.7	0	1,046.4	1,069.7	2.0	0	8
9	1,038.9	673.4	117.1	105.0	1,040.0	583.8	94.2	121.0	1,050.6	1,483.0	11.3	0	1,046.2	1,051.7	2.0	0	9
10	1,038.6	655.7	104.6	93.0	1,039.5	553.8	108.1	121.0	1,050.5	1,472.3	11.2	0	1,046.1	1,042.7	2.0	0	10
11	1,037.8	609.3	83.7	93.0	1,037.8	456.9	74.1	121.0	1,050.3	1,450.9	4.2	0	1,045.9	1,025.1	2.0	0	11
12	1,037.5	592.8	79.2	69.0	1,035.5	340.9	63.7	121.0	1,050.1	1,429.4	4.2	0	1,045.8	1,016.5	2.0	0	12
13	1,039.2	692.0	91.7	19.5	1,033.0	229.3	65.1	121.0	1,049.9	1,408.4	4.2	0	1,045.6	999.4	2.0	0	13
14	1,041.3	834.0	106.6	7.9	1,033.3	241.3	64.5	57.0	1,049.6	1,377.7	4.2	0	1,045.5	990.7	2.0	0	14
15	1,042.8	948.6	146.6	58.0	1,036.2	374.5	69.5	0.9	1,049.4	1,357.1	4.2	0	1,045.3	973.7	2.0	0	15
16	1,040.1	749.8	104.0	180.0	1,039.4	490.0	61.0	0.8	1,049.2	1,336.5	4.2	0	1,045.1	956.5	2.0	0	16
17	1,035.4	484.0	35.5	155.0	1,040.1	590.2	53.5	0.7	1,049.0	1,316.1	4.2	0	1,045.0	949.0	2.0	0	17
18	1,033.9	412.8	93.1	117.0	1,041.5	682.1	49.7	0.5	1,048.8	1,296.3	4.2	0	1,044.8	931.7	2.0	0	18
19	1,034.3	431.4	79.1	57.0	1,042.8	774.7	50.5	0.4	1,048.7	1,286.5	4.3	0	1,044.7	923.5	2.0	0	19
20	1,034.8	454.9	71.3	46.0	1,043.7	843.3	38.7	0.4	1,048.7	1,286.5	13.3	0	1,044.5	907.3	2.0	0	20
21	1,036.5	539.4	93.2	34.0	1,046.4	1,069.7	127.9	8.2	1,048.6	1,276.7	8.2	0	1,044.4	899.1	2.0	0	21
22	1,038.7	661.6	116.6	34.0	1,047.4	1,161.3	53.1	0.4	1,048.6	1,276.7	13.2	0	1,044.2	882.8	2.0	0	22
23	1,047.5	1,372.5	573.4	172.0	1,048.0	1,217.7	35.8	0.4	1,048.5	1,266.9	8.0	0	1,044.1	874.7	2.0	0	23
24	1,050.1	1,645.2	989.8	802.0	1,043.4	1,057.1	27.7	0.4	1,048.5	1,266.9	13.0	0	1,043.9	858.8	2.0	0	24
25	1,046.5	1,078.7*	2,729.9	2,910.0	1,048.9	1,305.2	33.3	0.4	1,048.4	1,257.1	7.8	0	1,043.7	843.3	2.0	0	25
26	1,044.3	891.0	711.1	301.0	1,049.2	1,336.5	24.1	0.4	1,048.2	1,237.3	2.5	0	1,043.6	835.6	2.0	0	26
27	1,041.7	695.9	431.0	526.0	1,049.4	1,357.1	19.5	0.4	1,048.1	1,227.5	7.4	0	1,043.5	827.9	2.0	0	27
28	1,033.9	518.2	390.7	478.0	1,049.6	1,377.1	19.7	0.4	1,048.0	1,217.7	7.2	0	1,043.4	820.1	2.0	0	28
29					1,049.7	1,387.9	14.5	0.4	1,047.8	1,198.9	2.4	0	1,043.2	804.7	2.0	0	29
30					1,049.8	1,398.1	14.7	0.4	1,047.6	1,180.1	2.1	0	1,043.0	789.3	2.0	0	30
31					1,049.8	1,398.1	9.6	0.4					1,042.9	782.0	2.0	0	31
TOTAL			3760.6	3455.4			2700.9	2121.9			324.2	0			61.6	0	
Inf. Ac. Ft.		17,376.5				5,357.2				643.1				122.2			44,688.4
Outf. Ac. Ft.		16,771.0 + (1,175.6)				4,208.7 + (268.5)				0 + (861.2)				0 + (520.2)			38,679.4 + (4,553.3)
Maximum Mean Daily Inflow		2,729.8				322.8				43.7				6.6			4,221.8
Minimum Mean Daily Inflow		35.5				9.6				0.7				1.9			0
Storage Change		- 766.1				+ 880.0				- 218.1				- 398.0			+ 782.0 *

NOTE: Gage Heights and Storages as of Midnight on Day Shown

									RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Max. W. S. Elev.	1,059.8	feet	on	1/25/69	Storage	3,465.9	Acre Feet		R. GARRISON	Dam Tender	Gage Hts. copied	RAP	JSL
Min. W. S. Elev.	989.0	feet	on	OCTOBER	Storage	0	Acre Feet		R. V. WOOD	Hydrographer	Storage applied	RAP	JSL
Max. Peak Inf.	9,438.0	C.F.S. from	8:00 A.M.	on	1/25/69	to	9:00 A.M.	on 1/25/69		Hydrographer	Inf. & Outf. comp.	RAP	JSL
Max. Peak Outf.	7,105.0	C.F.S. from	11:00 A.M.	on	1/25/69	to	12:00 NOON	on 1/25/69					

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES. / INDICATES AVERAGE FOR PERIOD.

* 196.0 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE NO. XIV, 2/25/69. SURVEY OF FEBRUARY 1969. (674 ACRE-FOOT TOTAL LOSS DUE TO SILTATION.)

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam

On Arroyo Seco for the Year Ending September 30, 1969

Drainage Area 31.9 Square Miles. Capacity of Reservoir 1,875.1 Ac. Ft. at Spillway Elev. 1,054.0 Ft. as of March 1969

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,042.8	774.7	1.3	0	1,039.7	565.8	0.8	0.4			0	0			0	0	1
2	1,042.7	767.4	1.3	0	1,039.6	559.8	0.8	0.4			0	0			0	0	2
3	1,042.5	752.9	1.3	0	1,039.4	547.8	0.8	0.5			0	0			0	0	3
4	1,042.4	745.6	1.3	0	1,039.3	541.8	0.8	0.5			0	0			0	0	4
5	1,042.3	738.3	1.3	0	1,039.2	535.8	0.8	0.5			0	0			0	0	5
6	1,042.1	723.7	1.3	0	1,039.0	523.8	0.8	0.5			0	0			0	0	6
7	1,042.0	716.4	1.3	0	1,038.9	518.2	0.8	0.5			0	0			0	0	7
8	1,042.0	716.4	1.3	0	1,038.3	484.4	0.8	13.6			0	0			0	0	8
9	1,041.8	702.7	1.3	0	1,037.3	430.4	0.8	18.8			0	0			0	0	9
10	1,041.7	695.9	1.3	0	1,036.3	379.6	0.8	18.8			0	0			0	0	10
11	1,041.6	689.0	1.3	0	1,035.4	336.1	0.8	18.8			0	0			0	0	11
12	1,041.5	682.2	1.3	0	1,034.4	290.0	0.8	17.8			0	0			0	0	12
13	1,041.4	675.3	1.3	0	1,033.3	241.4	0.8	17.8			0	0			0	0	13
14	1,041.3	668.5	1.3	0	1,032.1	190.5	0.8	17.4			0	0			0	0	14
15	1,041.2	661.6	1.3	0	1,030.9	142.1	0.8	17.4			0	0			0	0	15
16	1,041.1	654.8	1.3	0	1,029.7	97.1	0.8	17.4			0	0			0	0	16
17	1,041.2	661.6	1.3	0	1,028.4	55.7	0.8	17.4			0	0			0	0	17
18	1,041.1	654.8	1.3	0	1,027.2	30.6	0.8	14.9			0	0			0	0	18
19	1,041.0	647.9	1.3	0	1,026.1	19.9	0.8	12.5			0	0			0	0	19
20	1,040.9	641.5	1.3	0	1,025.0	14.7	0.8	12.3			0	0			0	0	20
21	1,040.3	639.1	1.3	0	1,023.8	10.9	0.8	12.0			0	0			0	0	21
22	1,040.7	628.7	1.4	0	1,013.8	0	0.3	5.4			0	0			0	0	22
23	1,040.6	622.3	1.4	0			0.8	1.1			0	0			0	0	23
24	1,040.5	615.9	1.4	0			0.8	1.1			0	0			0	0	24
25	1,040.4	609.5	1.4	0			0.8	1.1			0	0			0	0	25
26	1,040.3	603.0	1.4	0		NO STORAGE	0.8	1.2		NO STORAGE	0	0		NO STORAGE	0	0	26
27	1,040.1	590.2	1.4	0			0.8	0.7			0	0			0	0	27
28	1,040.1	590.2	1.4	0			0.8	0.8			0	0			0	0	28
29	1,040.0	583.3	1.4	0			0.8	0.8			0	0			0	0	29
30	1,039.9	577.8	1.4	0			0.8	0.9			0	0			0	0	30
31							0.3	0.9			0	0					31
TOTAL			39.9	0			24.8	244.2			0	0			0	0	
Inf. Ac. Ft.		79.2				49.3				0				0			44,816.9
Outf. Ac. Ft.		0 + (283.4)				484.3 + (142.8)				0				0			39,163.7 + (4,979.5)
Maximum Mean Daily Inflow		8.1				0.8				0				0			4,221.8
Minimum Mean Daily Inflow		1.3				0.8				0				0			0
Storage Change		- 204.2				- 577.8				0				0			- 0.4 *

NOTE: Gage Heights and Storages as of Midnight on Day Shown

									RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Max. W. S. Elev.	1,059.8	feet	on	1/25/69	Storage	3,465.9	Acre Feet		R. GARRISON	Dam Tender	Gage Hts. copied	RAP	JSL
Min. W. S. Elev.	989.0	feet	on	OCTOBER	Storage	0	Acre Feet		R. V. WOOD	Hydrographer	Storage applied	RAP	JSL
Max. Peak Inf.	9,438.0	C.F.S. from	8:00 A.M.	on	1/25/69	to	9:00 A.M.	on 1/25/69		Hydrographer	Inf. & Outf. comp.	RAP	JSL
Max. Peak Outf.	7,105.0	C.F.S. from	11:00 A.M.	on	1/25/69	to	12:00 NOON	on 1/25/69					

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

* 674. ACRE-FOOT TOTAL LOSS DUE TO SILTATION.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of EATON WASH Dam

In Eaton Wash for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Au

Drainage Area 12.4 Square Miles. Capacity of Reservoir 758.4 Ac. Ft. at Spillway Elev. 887.5 Ft. as of July 19 67

Gage Heights Read Daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	842.80	0	0	0	842.80	0	0	0	875.60	315.30	3.91	0	865.60	97.66	2.06	0	1
2	842.80	0	0	0	842.80	0	0	0	875.50	312.35	3.91	0	865.60	96.20	2.06	0	2
3	842.80	0	0	0	842.80	0	0	0	875.30	306.45	2.32	0	865.60	96.20	2.80	0	3
4	842.80	0	0	0	842.80	0	0	0	875.20	303.50	3.81	0	865.60	96.20	2.80	0	4
5	842.80	0	0	0	842.80	0	0	0	875.10	300.55	4.61	0.80	865.60	96.20	2.80	0	5
6	842.80	0	0	0	842.80	0	0	0	874.90	294.77	2.28	0	865.40	94.74	2.06	0	6
7	842.80	0	0	0	842.80	0	0	0	874.30	277.79	0.83	4.40	865.30	93.28	2.06	0	7
8	842.80	0	0	0	842.80	0	0	0	873.90	266.59	3.75	4.40	865.30	93.28	2.80	0	8
9	842.80	0	0	0	842.80	0	0	0	873.80	263.88	3.53	0	865.30	93.28	2.80	0	9
10	842.80	0	0	0	842.80	0	0	0	873.60	258.46	2.16	0	865.20	91.82	1.96	0	10
11	842.80	0	0	0	842.80	0	0	0	873.50	255.75	3.43	0	865.20	91.82	2.70	0	11
12	842.80	0	0	0	842.80	0	0	0	872.20	221.88	5.42	18.00	865.20	91.82	2.70	0	12
13	842.80	0	0	0	842.80	0	0	0	869.30	159.66	3.43	31.00	865.10	90.36	1.96	0	13
14	842.80	0	0	0	842.80	0	0	0	866.00	103.50	5.58	31.00	865.10	90.36	2.70	0	14
15	842.80	0	0	0	842.80	0	0	0	863.80	72.98	2.51	15.50	865.00	88.90	1.96	0	15
16	842.80	0	0	0	842.80	0	0	0	863.80	72.98	2.40	0	865.00	88.90	2.70	0	16
17	842.80	0	0	0	842.80	0	0	0	863.80	72.98	2.40	0	864.90	87.55	2.01	0	17
18	842.80	0	0	0	842.80	0	0	0	865.40	94.74	13.97	0	864.90	87.55	2.70	0	18
19	842.80	0	0	0	873.40	253.04	133.25	0	866.30	108.18	10.07	0	864.80	86.20	1.91	0	19
20	842.80	0	0	0	874.90	294.77	27.23	0	866.20	106.62	12.51	0	864.80	86.20	2.80	0	20
21	842.80	0	0	0	879.20	430.54	76.25	0	866.10	105.06	12.41	0	864.70	84.85	1.91	0	21
22	842.80	0	0	0	879.20	430.54	7.80	0	866.10	105.06	3.20	0	864.70	84.85	2.60	0	22
23	842.80	0	0	0	879.90	420.15	2.56	0	866.10	105.06	3.20	0	864.70	84.85	2.60	0	23
24	842.80	0	0	0	878.50	406.75	1.04	0	866.00	103.50	2.41	0	864.60	83.50	1.91	0	24
25	842.80	0	0	0	878.20	396.70	2.53	0	866.00	103.50	3.20	0	864.60	83.50	2.60	0	25
26	842.80	0	0	0	877.80	383.60	0.79	0	865.90	102.04	2.46	0	864.80	86.20	3.95	0	26
27	842.80	0	0	0	877.60	377.20	3.97	0	865.90	102.04	3.20	0	865.40	94.74	7.10	0	27
28	842.80	0	0	0	876.20	333.28	1.35	16.80	865.80	100.58	2.46	0	865.30	93.28	2.06	0	28
29	842.80	0	0	0	875.40	309.40	3.76	9.40	865.80	100.58	3.20	0	865.30	93.28	2.80	0	29
30	842.80	0	0	0	875.70	318.25	10.96	0	865.70	99.12	2.36	0	865.20	91.82	1.96	0	30
31	842.80	0	0	0					865.70	99.12	3.10	0	865.20	91.82	2.70	0	31
TOTAL			0	0			271.5	26.2			114.1	105.1			80.4	0	
Inf. Ac. Ft.		0				538.5				226.3				159.5		924.3	
Outf. Ac. Ft.		0				51.9 + (168.3)				208.4 + (237.0)				0.0 + (166.8)		260.3 + (572.1)	
Maximum Mean Daily Inflow		0				133.2				13.9				7.1		133.2	
Minimum Mean Daily Inflow		0				0.0				0.8				1.9		0.0	
Storage Change	0				+ 318.2				- 219.1				- 7.3			+ 91.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	879.2	feet	on	11/22/67	Storage	430.5	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	842.0	feet	on	MAY-SEPT.	Storage	0	Acre Feet	J. BARR	Dam Tender	Gage Hts. copied	GF JSL	
Max. Peak Inf.	331.2	C. F. S. from	10:00 A.M.	on	11/19/67	to	12:00 NOON	on	11/19/67	R. V. WOOD	Hydrographer	Storage applied GF JSL
Max. Peak Outf.	51.6	C. F. S. from	9:00 A.M.	on	11/28/67	to	12:00 NOON	on	11/28/67		Hydrographer	Inf. & Outf. comp. GF JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of EATON WASH Dam

In Eaton Wash for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Au

Drainage Area 12.4 Square Miles. Capacity of Reservoir 758.4 Ac. Ft. at Spillway Elev. 887.5 Ft. as of July 19 67

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	865.10	90.36	1.95	0	856.60	14.00	0.77	0	865.40	94.74	5.74	0	850.00	0	0	0	1
2	865.10	90.36	2.70	0	856.50	13.55	0.77	0	865.30	93.28	2.06	0	850.00	0	0	0	2
3	865.10	90.36	2.70	0	856.50	13.55	1.00	0	865.30	37.22	0	25.00	850.00	0	0	0	3
4	865.00	88.90	1.96	0	856.40	13.10	0.77	0	850.00	1.96	0	10.90	850.00	0	0	0	4
5	864.90	87.55	2.01	0	856.30	12.65	0.77	0	850.00	0	0	1.00	850.00	0	0	0	5
6	864.90	87.55	2.70	0	856.30	12.65	1.00	0	850.00	0	0	0	850.00	0	0	0	6
7	864.90	87.55	2.70	0	859.40	30.32	10.40	0	850.00	0	0	0	850.00	0	0	0	7
8	864.80	86.20	1.91	0	866.80	115.98	46.28	0	850.00	0	0	0	850.00	0	0	0	8
9	865.00	88.90	4.06	0	866.70	114.42	2.31	0	850.00	0	0	0	850.00	0	0	0	9
10	865.00	88.90	2.70	0	866.60	112.86	2.21	0	850.00	0	0	0	850.00	0	0	0	10
11	865.00	88.90	2.70	0	866.60	112.86	3.00	0	850.00	0	0	0	850.00	0	0	0	11
12	865.00	88.90	2.70	0	866.50	111.30	2.21	0	850.00	0	0	0	850.00	0	0	0	12
13	865.00	88.90	2.70	0	866.40	109.74	2.21	0	850.00	0	0	0	850.00	0	0	0	13
14	865.00	88.90	2.70	0	866.30	108.18	2.21	0	850.00	0	0	0	850.00	0	0	0	14
15	864.90	87.55	2.01	0	866.20	106.62	2.21	0	850.00	0	0	0	850.00	0	0	0	15
16	864.80	86.20	2.01	0	866.10	105.06	2.21	0	850.00	0	0	0	850.00	0	0	0	16
17	864.80	86.20	2.70	0	866.00	103.50	2.11	0	850.00	0	0	0	850.00	0	0	0	17
18	864.70	84.85	1.91	0	865.90	102.04	2.16	0	850.00	0	0	0	850.00	0	0	0	18
19	864.70	84.85	2.60	0	865.90	102.04	2.90	0	850.00	0	0	0	850.00	0	0	0	19
20	864.60	83.50	1.91	0	865.80	100.58	2.16	0	850.00	0	0	0	850.00	0	0	0	20
21	864.60	83.50	2.60	0	865.70	99.12	2.06	0	850.00	0	0	0	850.00	0	0	0	21
22	864.50	82.15	1.91	0	865.60	97.66	2.06	0	850.00	0	0	0	850.00	0	0	0	22
23	864.50	82.15	2.60	0	865.60	97.66	2.90	0	850.00	0	0	0	850.00	0	0	0	23
24	864.50	82.15	2.60	0	865.50	96.20	2.06	0	850.00	0	0	0	850.00	0	0	0	24
25	864.40	80.80	1.81	0	865.40	94.74	2.06	0	850.00	0	0	0	850.00	0	0	0	25
26	864.30	79.45	1.81	0	865.30	93.28	2.06	0	850.00	0	0	0	850.00	0	0	0	26
27	861.10	44.05	1.95	18.00	865.30	93.28	2.80	0	850.00	0	0	0	850.00	0	0	0	27
28	856.70	14.45	3.67	17.60	865.20	91.82	1.96	0	850.00	0	0	0	850.00	0	0	0	28
29	856.70	14.45	1.00	0	865.10	90.36	1.96	0	850.00	0	0	0	850.00	0	0	0	29
30					865.10	90.36	2.70	0	850.00	0	0	0	850.00	0	0	0	30
31					865.00	88.90	1.96	0					850.00	0	0	0	31
TOTAL			69.3	35.6			114.2	0			7.8	36.9			0	0	
Inf. Ac. Ft.		137.6				226.5				15.4				0		1,303.8	
Outf. Ac. Ft.		70.6 + (144.3)				0.0 + (152.1)				73.2 + (31.1)				0		404.1 + (899.6)	
Maximum Mean Daily Inflow		4.0				46.2				5.7				0		133.2	
Minimum Mean Daily Inflow		1.0				0.7				0				0		0	
Storage Change	- 77.3				+ 74.4				- 86.9				0			- 91.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	879.2	feet	on	11/22/67	Storage	430.5	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	842.0	feet	on	MAY-SEPT.	Storage	0	Acre Feet	J. BARR	Dam Tender	Gage Hts. copied	GF JSL	
Max. Peak Inf.	331.2	C. F. S. from	10:00 A.M.	on	11/19/67	to	12:00 NOON	on	11/19/67	R. V. WOOD	Hydrographer	Storage applied GF JSL
Max. Peak Outf.	51.6	C. F. S. from	9:00 A.M.	on	11/28/67	to	12:00 NOON	on	11/29/67		Hydrographer	Inf. & Outf. comp. GF JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of EATON WASH Dam

In Eaton Wash for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Au

Drainage Area 12.4 Square Miles. Capacity of Reservoir 758.4 Ac. Ft. at Spillway Elev. 887.5 Ft. as of July 19 67 Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	850.0	0.0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	1
2	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	2
3	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	3
4	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	4
5	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	5
6	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	6
7	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	7
8	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	8
9	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	9
10	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	10
11	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	11
12	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	12
13	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	13
14	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	14
15	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	15
16	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	16
17	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	17
18	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	18
19	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	19
20	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	20
21	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	21
22	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	22
23	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	23
24	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	24
25	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	25
26	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	26
27	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	27
28	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	28
29	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	29
30	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	850.0	0	0	0	30
31									850.0	0	0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.		0				0				0				0		1,303.8	
Outf. Ac. Ft.		0				0				0				0		404.1 + (899.6)	
Maximum Mean Daily Inflow		0				0				0				0		133.2	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change		0				0				0				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

										RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Max. W. S. Elev.	879.2	feet	on	11/22/67	Storage	430.5	Acre Feet			J. BARR	Dam Tender	Gage Hts. copied	GF JSL	
Min. W. S. Elev.	842.0	feet	on	MAY-SEPT.	Storage	0	Acre Feet			R. V. WOOD	Hydrographer	Storage applied	GF JSL	
Max. Peak Inf.	331.2	C. F. S. from	10:00 A.M.	on	11/19/67	to	12:00 NOON	on	11/19/67		Hydrographer	Inf. & Outf. comp.	GF JSL	
Max. Peak Outf.	51.6	C. F. S. from	9:00 A.M.	on	11/28/67	to	12:00 NOON	on	11/28/67					

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of EATON WASH Dam

In Eaton Wash for the Year Ending September 30, 19 69

503.6 February 69
526.9 January 69
Drainage Area 12.4 Square Miles. Capacity of Reservoir 758.4 Ac. Ft. at Spillway Elev. 887.5 Ft. as of July 1969

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1			0	0	843.1	0.1	0.1	0	843.0	0.1	0.1	0	846.7	0.7	0.2	0	1
2			0	0	843.1	0.1	0.1	0	843.0	0.1	0.1	0	846.5	0.7	0.2	0	2
3			0	0	843.1	0.1	0.1	0	843.0	0.1	0.1	0	846.4	0.6	0.2	0	3
4			0	0	843.1	0.1	0.1	0	843.0	0.1	0.1	0	846.3	0.6	0.2	0	4
5			0	0	843.0	0.1	0.1	0	843.0	0.1	0.1	0	846.1	0.5	0.2	0	5
6			0	0	843.0	0.1	0.1	0	843.0	0.1	0.1	0	846.0	0.5	0.2	0	6
7			0	0	843.0	0.1	0.1	0	843.0	0.1	0.1	0	845.9	0.5	0.2	0	7
8			0	0	843.0	0.1	0.1	0	843.0	0.1	0.1	0	845.8	0.5	0.2	0	8
9			0	0	843.0	0.1	0.1	0	843.0	0.1	0.1	0	845.7	0.5	0.1	0	9
10			0	0	843.0	0.1	0.1	0	843.0	0.1	0.1	0	845.6	0.4	0.1	0	10
11			0	0	843.0	0.1	0.1	0	843.4	0.1	0.1	0	845.4	0.4	0.1	0	11
12			0	0	843.0	0.1	0.1	0	843.4	0.1	0.1	0	845.3	0.4	0.1	0	12
13			0	0	843.0	0.1	0.1	0	843.4	0.1	0.1	0	853.7	5.1	4.7	0.9	13
14			0	0	843.0	0.1	0.1	0	843.4	0.1	0.1	0	855.1	8.2	4.0	0.9	14
15			0	0	845.2	0.4	0.3	0	843.4	0.1	0.1	0	853.6	5.0	0	0.6	15
16			0	0	845.2	0.4	0.1	0	844.9	0.3	0.2	0	851.5	2.8	0	0.4	16
17			0	0	845.1	0.3	0.1	0	845.6	0.4	0.2	0	849.9	1.9	0.4	0.4	17
18			0	0	844.9	0.3	0.1	0	845.4	0.4	0.1	0	854.3	6.2	3.6	0.3	18
19			0	0	844.7	0.3	0.1	0	845.2	0.3	0.1	0	857.3	17.4	7.6	0.3	19
20			0	0	844.5	0.2	0.1	0	845.0	0.3	0.1	0	869.4	161.6	77.9	0.3	20
21			0	0	844.2	0.2	0.1	0	844.8	0.3	0.1	0	887.5	758.3	311.2	0.4	21
22			0	0	843.6	0.1	0.1	0	844.7	0.3	0.1	0	887.7	767.1	200.5	186.0	22
23			0	0	843.0	0.1	0.1	0	844.6	0.2	0.1	0	886.0	693.9	25.7	53.0	23
24			0	0	843.0	0.1	0.1	0	844.6	0.2	0.1	0	888.2	789.0	112.1	54.0	24
25			0	0	843.0	0.1	0.1	0	846.5	0.7	0.5	0.1	888.3	553.1(1)	1,105.5	1,093.0	25
26			0	0	843.0	0.1	0.1	0	848.5	1.3	0.8	0.1	888.2	549.7	579.5	574.0	26
27			0	0	843.0	0.1	0.1	0	847.8	1.1	0.2	0	888.0	543.0	365.7	362.0	27
28			0	0	843.0	0.1	0.1	0	847.5	0.1	0.3	0	887.9	539.8	210.5	205.0	28
29			0	0	843.0	0.1	0.1	0	847.3	0.9	0.2	0	887.8	536.6	115.4	110.0	29
30	843.2	0.1	+	0	843.0	0.1	0.1	0	847.1	0.8	0.2	0	887.7	533.4	95.4	90.0	30
31	843.2	0.1	0	0					846.9	0.8	0.2	0	887.7	533.4	84.0	77.0	31
TOTAL			0	0			3.2	0			4.8	0.2			1305.5	2808.5	
Inf. Ac. Ft.		0				6.3				9.4				6,566.4		6,572.1	
Outf. Ac. Ft.		0 + (0)				0 + (6.3)				0.3 + (8.3)				5,570.5 + (212.8)		5,570.8 + (227.4)	
Maximum Mean Daily Inflow		+ 0.3				0.25				0.6				1,105.5		1,105.5	
Minimum Mean Daily Inflow		0				0.09				0				0		0	
Storage Change	+ 0.1				- 0				+ 0.7				+ 532.6			+ 533.4 (1)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

										RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Max. W. S. Elev.	889.6	feet	on	1/25/69	Storage	851.6	Acre Feet			J. C. BARR	Dam Tender	Gage Hts. copied	RAP-JSL	
Min. W. S. Elev.	842.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet			R. V. WOOD	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Inf.	2,919.	C. F. S. from	8:00 A.M.	on	1/25/69	to	8:30 A.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL	
Max. Peak Outf.	2,800.	C. F. S. from	8:00 A.M.	on	1/25/69	to	9:00 A.M.	on	1/25/69					

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

(1) 240.4 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XXIV, 1/25/69

760136N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of EATON WASH Dam

In Eaton Wash for the Year Ending September 30, 1969

503.6 / 526.9 February 69 / January 69

Drainage Area 12.4 Square Miles. Capacity of Reservoir 758.4 Ac. Ft. at Spillway Elev. 887.5 Ft. as of July 1969

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	887.7	533.4	75.0	60.0	888.0	518.3	217.2	207.0	887.6	506.6	21.9	11.8	881.9	349.8	14.8	13.2	1
2	883.3	399.0	100.7	163.0	887.9	515.4	173.7	165.0	887.7	509.5	54.6	43.0	881.2	331.9	12.1	13.2	2
3	872.5	140.5	148.1	276.0	887.9	515.4	158.2	148.0	887.7	509.5	39.1	29.0	880.6	316.9	13.1	13.1	3
4	871.8	128.6	49.2	53.0	887.9	515.4	138.2	128.0	887.6	506.6	20.8	12.2	880.0	302.0	13.0	13.1	4
5	871.0	115.9	55.6	60.0	887.8	512.4	97.6	89.0	887.7	509.5	111.6	100.0	879.3	285.3	10.8	12.1	5
6	883.3	399.0	183.2	35.0	887.8	512.4	90.1	80.0	887.6	506.6	41.6	33.0	878.6	268.9	10.5	11.7	6
7	884.8	443.1	88.2	60.0	887.8	512.4	79.1	69.0	887.6	506.6	23.2	13.0	878.0	255.2	11.2	11.4	7
8	886.0	479.6	80.8	56.0	887.8	512.4	84.1	74.0	887.6	506.6	28.8	18.8	877.3	239.7	10.0	11.3	8
9	886.7	501.5	69.6	52.0	887.9	515.4	81.7	70.0	887.6	506.6	23.1	13.0	876.6	224.5	9.6	11.0	9
10	886.8	504.7	63.3	55.0	887.8	512.4	121.6	113.0	887.6	506.6	28.1	18.0	875.8	207.5	7.6	10.2	10
11	886.8	504.7	62.7	56.0	887.8	512.4	70.1	60.0	887.6	506.6	20.3	10.2	874.5	183.1	3.2	9.9	11
12	886.6	498.4	58.4	55.0	887.8	512.4	66.1	56.0	887.6	506.6	19.0	8.9	874.3	177.2	12.1	9.6	12
13	885.1	452.1	22.8	40.0	887.8	512.4	66.1	56.0	887.6	506.6	17.9	7.8	873.6	163.9	7.9	9.3	13
14	879.9	305.1	88.4	158.0	887.8	512.4	44.1	34.0	887.6	506.6	17.9	7.8	872.8	149.2	6.9	9.3	14
15	873.1	151.0	43.9	119.0	887.8	512.4	24.3	14.2	887.6	506.6	17.7	7.6	872.2	138.6	8.6	9.0	15
16	872.2	135.2	56.4	62.0	887.8	512.4	23.7	13.6	887.3	497.8	16.9	11.3	871.3	123.8	5.9	8.8	16
17	872.2	135.2	39.4	37.0	887.8	512.4	26.6	16.5	886.9	486.1	14.0	10.0	870.4	110.2	5.9	8.5	17
18	872.3	137.0	36.3	33.0	887.8	512.4	47.1	37.5	886.7	480.4	16.9	10.0	869.6	98.9	6.8	8.4	18
19	871.2	119.0	33.1	40.0	887.8	512.4	45.1	35.5	886.6	477.6	18.3	10.0	868.8	88.2	6.8	8.4	19
20	869.5	95.2	68.7	79.0	887.8	512.4	40.1	30.0	886.5	474.7	18.3	10.0	867.9	76.7	6.5	8.7	20
21	871.0	115.9	88.4	76.0	887.7	509.5	168.6	160.0	886.2	466.1	18.4	13.1	867.0	65.6	5.9	8.2	21
22	874.9	186.0	58.4	20.0	887.7	509.5	46.1	36.0	885.7	452.0	17.3	15.0	866.0	54.0	5.0	7.9	22
23	887.4	523.8	193.2	16.0	887.8	512.4	37.6	26.0	885.1	435.1	15.7	15.0	865.0	43.4	4.8	7.4	23
24	888.3	553.1	368.0	346.0	887.7	509.5	31.6	23.0	884.7	424.1	18.5	15.0	863.8	32.2	2.0	7.3	24
25	888.2	524.4(2)	791.5	786.0	887.6	506.6	29.6	21.0	884.3	413.2	18.5	15.0	862.3	20.7	2.0	7.2	25
26	888.0	518.3	562.0	558.0	887.6	506.6	26.9	18.8	883.8	399.7	17.0	15.0	860.4	9.9	2.0	6.4	26
27	887.9	515.4	361.6	356.0	887.6	506.6	25.8	15.7	883.4	389.0	17.2	14.0	854.0	0	2.0	2.6	27
28	888.0	518.3	223.6	215.0	887.6	506.6	24.7	14.6	883.1	381.0	17.5	13.0	854.0	0	2.0	2.3	28
29					887.6	506.6	23.4	13.3	882.7	370.5	16.1	13.0	854.0	0	2.0	2.0	29
30					887.6	506.6	22.3	12.2	882.4	362.7	17.4	13.0	854.0	0	2.0	1.8	30
31					887.6	506.6	21.4	11.3					854.0	0	1.9	1.8	31
TOTAL			4,070.5	3,930.0			2,152.8	1,845.2			743.5	526.5			215.1	265.1	
Inf. Ac. Ft.		8,073.8				4,270.2				1,474.8				426.6			20,817.5
Outf. Ac. Ft.		7,795.0 + (268.5)				3,659.9 + (622.0)				1,044.2 + (574.4)				525.8 + (263.6)			18,595.7 + (1,955.9)
Maximum Mean Daily Inflow		791.5				217.2				111.5				14.7			1,105.5
Minimum Mean Daily Inflow		22.7				21.4				14.0				-2.4			0
Storage Change		-15.1				-11.7				-143.8				-362.7			0 (1)(2)

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	889.6	feet	on	1/25/69	Storage	851.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	842.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	J. C. BARR	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	2,919.	C.F.S. from	8:00 A.M.	on	1/25/69	to	8:30 A.M.	on	1/25/69	R. V. WOOD	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Outf.	2,800.	C.F.S. from	8:00 A.M.	on	1/25/69	to	9:00 A.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS
(1) 240.4 ACRE-FOOT LOSS DUE TO SILTATION.
(2) 25.3 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XXV, 2/25/69.
( ) INDICATES EVAPORATION AND OTHER LOSSES. (INDICATES AVERAGE FOR PERIOD.

760136N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of EATON WASH Dam

In Eaton Wash for the Year Ending September 30, 1969

503.6 / 526.9 February 69 / January 69

Drainage Area 12.4 Square Miles. Capacity of Reservoir 758.4 Ac. Ft. at Spillway Elev. 887.5 Ft. as of July 1969

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1			1.6	1.6			0.2	0.2			0	0			0	0	1
2			1.6	1.6			0.2	0.2			0	0			0	0	2
3			1.4	1.4			0.2	0.2			0	0			0	0	3
4			1.2	1.2			0.2	0.2			0	0			0	0	4
5			1.0	1.0			0.2	0.2			0	0			0	0	5
6			1.0	1.0			0.2	0.2			0	0			0	0	6
7			1.0	1.0			0.2	0.2			0	0			0	0	7
8			1.0	1.0			0.2	0.2			0	0			0	0	8
9			1.0	1.0			0.2	0.2			0	0			0	0	9
10			1.0	1.0			0.2	0.2			0	0			0	0	10
11			1.0	1.0			0.2	0.2			0	0			0	0	11
12			1.0	1.0			0.1	0.1			0	0			0	0	12
13			0.9	0.9			0.1	0.1			0	0			0	0	13
14			0.9	0.9			0.1	0.1			0	0			0	0	14
15			0.8	0.8			0.1	0.1			0	0			0	0	15
16			0.7	0.7			0.1	0.1			0	0			0	0	16
17			0.6	0.6			0.1	0.1			0	0			0	0	17
18			0.5	0.5			0.1	0.1			0	0			0	0	18
19			0.5	0.5			0.1	0.1			0	0			0	0	19
20			0.4	0.4			0.1	0.1			0	0			0	0	20
21			0.4	0.4			0	0			0	0			0	0	21
22			0.3	0.3			0	0			0	0			0	0	22
23			0.3	0.3			0	0			0	0			0	0	23
24			0.2	0.2			0	0			0	0			0	0	24
25			0.2	0.2			0	0			0	0			0	0	25
26			0.2	0.2			0	0			0	0			0	0	26
27			0.2	0.2			0	0			0	0			0	0	27
28			0.2	0.2			0	0			0	0			0	0	28
29			0.2	0.2			0	0			0	0			0	0	29
30			0.2	0.2			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			21.5	21.5			3.1	3.1			0	0			0	0	
Inf. Ac. Ft.		42.6				6.1				0				0			20,866.2
Outf. Ac. Ft.		42.6 + (0)				6.1 + (0)				0				0			18,644.4 + (1,955.9)
Maximum Mean Daily Inflow		1.6				0.2				0				0			1,105.5
Minimum Mean Daily Inflow		0.2				0.0				0				0			0
Storage Change		0				0				0				0			0 (1)(2)

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	889.6	feet	on	1/25/69	Storage	851.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	842.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	J. C. BARR	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	2,919.	C.F.S. from	8:00 A.M.	on	1/25/69	to	8:30 A.M.	on	1/25/69	R. V. WOOD	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Outf.	2,800.	C.F.S. from	8:00 A.M.	on	1/25/69	to	9:00 A.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS
( ) INDICATES EVAPORATION AND OTHER LOSSES.
(1) 240.4 ACRE-FOOT LOSS DUE TO SILTATION.
(2) 25.3 ACRE-FOOT LOSS DUE TO SILTATION.

760138M-60B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Stevens A-35

Drainage Area 10.8 Square Miles. Capacity of Reservoir 635.0 Ac. Ft. at Spillway Elev. 1,316.0 Ft. as of June 1967 Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	1,265.3	214.0	5.7	0.2	1,277.6	273.0	3.9	0.0	1,267.8	221.1	13.5	20.0	1,275.4	260.2	5.1	0.7	1
2	1,259.3	223.5	5.0	0.2	1,278.7	279.7	3.4	0.0	1,263.8	202.6	8.4	17.8	1,272.9	246.8	7.2	14.0	2
3	1,270.1	232.5	4.8	0.2	1,279.8	286.7	3.5	0.0	1,260.0	185.5	7.3	16.0	1,268.3	223.5	7.9	19.6	3
4	1,271.7	240.6	4.3	0.2	1,280.9	293.7	3.6	0.0	1,259.2	181.9	8.7	10.6	1,263.7	202.1	7.0	17.8	4
5	1,273.3	248.9	4.3	0.2	1,282.0	301.0	3.7	0.0	1,262.5	196.7	7.8	0.4	1,260.2	186.4	8.1	16.0	5
6	1,274.7	256.3	3.9	0.2	1,283.1	308.4	3.8	0.0	1,265.7	211.2	7.6	0.4	1,257.7	175.1	7.9	13.6	6
7	1,276.0	263.6	3.8	0.2	1,284.2	316.0	3.9	0.0	1,268.4	224.0	6.8	0.4	1,255.3	164.3	6.9	12.4	7
8	1,277.3	271.2	4.0	0.2	1,285.3	324.3	4.2	0.0	1,270.8	236.0	6.4	0.4	1,253.9	158.1	6.3	9.4	8
9	1,278.6	279.1	4.1	0.2	1,286.4	333.0	4.4	0.0	1,272.8	246.3	5.6	0.4	1,252.9	153.7	6.0	8.2	9
10	1,279.9	287.3	4.3	0.2	1,287.2	339.4	3.3	0.0	1,274.5	255.3	4.9	0.4	1,252.3	151.1	6.4	7.7	10
11	1,281.0	294.4	3.7	0.2	1,288.0	346.0	3.3	0.0	1,276.1	264.1	4.8	0.4	1,252.4	151.5	6.9	6.7	11
12	1,282.2	302.3	4.2	0.2	1,288.8	352.7	3.4	0.0	1,277.8	274.2	5.4	0.4	1,253.1	154.6	6.1	4.6	12
13	1,283.3	309.8	3.9	0.2	1,285.7	327.4	1.6	14.4	1,279.3	283.5	5.0	0.4	1,254.3	159.9	5.8	3.1	13
14	1,284.3	316.8	3.7	0.2	1,280.0	289.0	0.1	20.0	1,280.7	292.4	4.9	0.4	1,255.5	165.2	5.8	3.1	14
15	1,285.4	325.1	4.3	0.2	1,274.4	254.7	2.2	19.0	1,282.2	302.3	5.1	0.2	1,256.5	169.7	5.4	3.1	15
16	1,286.4	333.0	4.1	0.2	1,268.5	224.5	2.7	18.0	1,283.5	311.2	4.6	0.2	1,257.4	173.8	5.1	3.1	16
17	1,287.3	340.2	3.8	0.2	1,265.1	208.4	3.5	11.7	1,285.0	322.0	5.6	0.2	1,258.4	179.3	5.4	3.1	17
18	1,288.1	346.8	3.5	0.2	1,266.8	215.3	4.0	0.0	1,285.6	326.6	11.2	8.9	1,259.4	182.8	5.4	3.1	18
19	1,289.0	354.4	4.0	0.2	1,285.5	325.9	55.6	0.4	1,282.7	305.7	9.4	20.0	1,259.7	184.1	4.7	4.1	19
20	1,289.9	362.1	4.1	0.2	1,290.4	366.4	33.5	13.1	1,280.0	288.0	8.2	17.2	1,258.6	179.2	4.2	6.7	20
21	1,290.7	369.0	3.6	0.2	1,293.7	395.3	45.5	31.0	1,277.6	273.0	9.4	16.0	1,257.7	175.1	4.2	6.2	21
22	1,291.6	376.8	4.1	0.2	1,292.9	388.3	17.4	21.0	1,278.2	276.6	7.3	5.5	1,256.9	171.5	4.4	6.2	22
23	1,289.2	356.1	4.5	15.0	1,290.5	363.3	10.4	21.0	1,280.4	290.5	7.4	0.4	1,256.1	167.9	4.4	6.2	23
24	1,284.3	316.8	2.1	22.0	1,287.6	342.7	8.6	21.0	1,282.1	301.6	6.0	0.4	1,255.0	163.0	3.7	6.2	24
25	1,279.3	283.5	5.2	22.0	1,283.9	313.9	5.4	20.0	1,283.8	313.2	6.2	0.4	1,254.1	159.0	4.2	6.2	25
26	1,274.0	252.6	5.4	21.0	1,280.0	288.0	6.9	20.0	1,281.0	294.4	5.4	14.9	1,253.6	156.8	5.1	6.2	26
27	1,271.3	238.5	5.9	13.0	1,276.2	264.7	6.6	18.4	1,276.1	264.1	6.7	22.0	1,255.5	165.2	10.4	6.2	27
28	1,272.8	246.3	3.9	0.0	1,272.9	246.8	10.9	20.0	1,271.5	239.6	7.6	20.0	1,256.4	169.3	8.3	6.2	28
29	1,274.2	253.6	3.7	0.0	1,270.0	232.0	12.4	20.0	1,269.8	231.0	7.2	11.6	1,256.9	171.5	7.3	6.2	29
30	1,275.2	259.1	2.8	0.0	1,270.4	234.0	23.0	22.0	1,271.9	241.6	6.0	0.7	1,257.2	172.9	6.9	6.2	30
31	1,276.3	265.3	3.1	0.0					1,273.8	251.5	5.6	0.7	1,257.9	176.0	7.7	6.2	31
TOTAL			129.0	97.6			295.9	311.7			216.5	207.7			190.2	228.3	
Inf. Ac. Ft.		255.9				587.0				429.5				377.3		1,649.7	
Outf. Ac. Ft.		193.6				618.4				411.9				452.8		1,676.7	
Maximum Mean Daily Inflow		5.9				55.6				13.5				10.4		55.7	
Minimum Mean Daily Inflow		2.1				0.1				4.6				3.7		0.1	
Storage Change		+ 62.2				- 31.3				+ 17.5				- 75.5		+ 27.1	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,293.3	feet	on	11/21/67	Storage	356.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,180.0	feet	on	JUNE - SEPT.	Storage	0	Acre Feet	D. G. RAINES	Dam Tender	Gage Hts. copied	GF JSL	4/10/69
Max. Peak Inf.	164.7	C.F.S. from	12:00 NOON	11/19/67	to	2:00 P.M.	on	11/19/67	R. V. WOOD	Hydrographer	Storage applied	GF JSL 4/10/69
Max. Peak Outf.	50.0	C.F.S. from	12:30 P.M.	on	11/21/67	to	10:00 P.M.	on	11/21/67		Hydrographer	Inf. & Outf. comp. GF JSL 4/10/69

REMARKS

760138M-60B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Stevens A-35

Drainage Area 10.8 Square Miles. Capacity of Reservoir 635.0 Ac. Ft. at Spillway Elev. 1,316.0 Ft. as of June 19 67 Gage Heights Read Daily

Day	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	Day
1	1,258.1	176.9	5.5	5.1	1,259.2	181.9	5.1	5.1	1,245.8	122.9	9.6	9.4	1,262.8	198.1	2.9	0.2	1
2	1,258.3	177.8	5.5	5.1	1,259.2	181.9	4.6	4.6	1,245.8	135.8	10.3	3.8	1,264.2	204.4	3.4	0.2	2
3	1,258.6	179.2	5.7	5.1	1,259.2	181.9	4.6	4.6	1,249.0	136.7	16.7	9.2	1,265.4	209.8	2.9	0.2	3
4	1,258.7	179.6	5.3	5.1	1,259.2	181.9	4.6	4.6	1,249.2	137.5	16.6	6.2	1,266.6	215.4	3.0	0.2	4
5	1,259.7	179.6	5.1	5.1	1,259.2	181.9	4.6	4.6	1,249.1	137.1	6.0	6.2	1,267.9	221.6	3.3	0.2	5
6	1,258.8	180.1	5.3	5.1	1,259.2	181.9	4.6	4.6	1,249.0	136.7	6.0	6.2	1,269.1	227.5	3.1	0.2	6
7	1,258.8	180.1	5.1	5.1	1,260.4	187.3	7.3	4.6	1,249.0	136.7	6.2	6.2	1,270.3	233.5	3.2	0.2	7
8	1,258.7	179.6	4.8	5.1	1,270.2	233.0	38.5	15.4	1,248.8	135.8	5.7	6.2	1,271.4	239.0	3.0	0.2	8
9	1,259.3	182.3	6.4	5.1	1,267.4	219.2	13.0	20.0	1,248.2	133.2	4.9	6.2	1,272.5	244.8	3.0	0.2	9
10	1,259.8	184.6	6.2	5.1	1,264.3	204.8	12.3	19.6	1,247.4	129.8	4.5	6.2	1,273.6	250.5	3.0	0.2	10
11	1,260.0	185.5	5.5	5.1	1,261.8	193.6	8.0	13.6	1,246.6	126.3	4.4	6.2	1,274.6	255.8	2.8	0.2	11
12	1,260.4	187.3	6.0	5.1	1,259.4	182.8	8.2	13.6	1,245.8	122.9	4.5	6.2	1,275.8	262.4	3.5	0.2	12
13	1,261.3	191.3	7.1	5.1	1,256.2	168.4	7.3	14.6	1,245.1	119.9	4.7	6.2	1,276.8	268.2	3.1	0.2	13
14	1,262.3	195.8	7.3	5.1	1,252.0	149.8	5.4	14.8	1,244.3	116.5	4.5	6.2	1,277.9	274.8	3.5	0.2	14
15	1,262.8	198.1	6.2	5.1	1,252.9	153.7	7.9	5.9	1,243.6	113.6	4.7	6.2	1,278.8	280.3	3.0	0.2	15
16	1,262.5	196.7	4.9	5.6	1,256.4	169.3	8.0	0.2	1,243.0	111.1	4.7	5.9	1,279.6	285.4	2.7	0.2	16
17	1,261.5	192.2	3.3	5.6	1,259.5	183.2	7.3	0.2	1,242.4	108.5	4.2	5.6	1,280.5	291.2	3.1	0.2	17
18	1,260.6	188.2	3.5	5.6	1,262.2	195.4	6.3	0.2	1,241.9	106.4	4.6	5.4	1,281.3	296.3	2.8	0.2	18
19	1,259.5	183.2	3.1	5.6	1,264.5	203.7	5.4	0.2	1,242.6	109.4	4.9	3.4	1,282.0	301.0	2.5	0.2	19
20	1,259.4	178.5	3.1	5.6	1,266.8	216.3	5.5	0.2	1,245.1	119.9	5.5	0.2	1,282.7	305.7	2.5	0.2	20
21	1,257.6	174.7	3.2	5.1	1,268.8	226.0	5.1	0.2	1,247.4	129.8	5.2	0.2	1,283.4	310.5	2.5	0.2	21
22	1,256.8	171.1	3.2	5.1	1,270.8	236.0	5.3	0.2	1,249.4	138.4	4.5	0.2	1,284.2	316.0	3.0	0.2	22
23	1,256.7	170.6	3.8	4.1	1,272.5	244.8	4.6	0.2	1,251.4	147.1	4.6	0.2	1,284.9	321.2	2.8	0.2	23
24	1,257.2	172.9	5.2	4.1	1,274.0	252.6	4.1	0.2	1,253.4	154.6	4.0	0.2	1,285.6	326.6	2.9	0.2	24
25	1,257.7	175.1	5.2	4.1	1,275.8	262.4	5.2	0.2	1,254.7	161.6	3.7	0.2	1,286.3	332.2	2.9	0.2	25
26	1,258.1	176.9	5.5	4.6	1,277.3	271.2	4.6	0.2	1,256.2	168.4	3.6	0.2	1,287.0	337.8	3.0	0.2	26
27	1,258.5	178.7	5.5	4.6	1,275.8	262.4	4.4	8.8	1,257.7	175.1	3.6	0.2	1,287.6	342.7	2.6	0.2	27
28	1,258.9	180.5	5.5	4.6	1,269.5	229.5	6.4	23.0	1,259.1	181.4	3.4	0.2	1,288.1	346.8	2.2	0.2	28
29	1,259.2	181.9	5.2	4.6	1,261.6	192.7	5.4	24.0	1,260.4	187.3	3.2	0.2	1,288.6	351.0	2.3	0.2	29
30					1,253.6	156.8	3.9	22.0	1,261.6	192.7	2.9	0.2	1,289.2	356.1	2.7	0.2	30
31					1,245.7	122.5	3.8	21.0					1,289.7	360.4	2.3	0.2	31
TOTAL			148.3	145.4			221.2	251.2			151.8	116.5			90.7	6.2	
Inf. Ac. Ft.		294.2				438.8				301.2				180.0		2,863.9	
Outf. Ac. Ft.		288.3				498.2				231.0				12.2		2,706.4	
Maximum Mean Daily Inflow		7.3				38.5				10.3				3.5		55.7	
Minimum Mean Daily Inflow		3.1				3.8				2.9				2.2		0.1	
Storage Change		+ 5.8				- 59.3				+ 70.1				+ 167.7		+ 157.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,293.3	feet	on	11/21/67	Storage	356.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,180.0	feet	on	JUNE - SEPT.	Storage	0	Acre Feet	D. G. RAINES	Dam Tender	Gage Hts. copied	GF JSL	4/10/69
Max. Peak Inf.	164.7	C.F.S. from	12:00NOON	on	11/19/67	to	2:00 P.M.	on	11/19/67	R. V. WOOD	Hydrographer	Storage applied GF JSL 4/10/69
Max. Peak Outf.	50.0	C.F.S. from	12:30 P.M.	on	11/21/67	to	10:00 P.M.	on	11/21/67		Hydrographer	Inf. & Outf. comp. GF JSL 4/10/69

REMARKS

76D138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 1968

Drainage Area 10.8 Square Miles. Capacity of Reservoir 635.0 Ac. Ft. at Spillway Elev. 1,316.0 Ft. as of June 1967

Continuous Water Stage Recorder Stevens A-35

Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1,290.30	365.58	2.70	0.20	1,180.00	0.00	3.00	3.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1
2	1,290.80	369.88	2.70	0.20	1,180.00	0.00	3.00	3.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	2
3	1,291.30	374.24	2.70	0.20	1,180.00	0.00	2.50	2.50	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	3
4	1,291.80	378.64	2.70	0.20	1,180.00	0.00	2.50	2.50	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	4
5	1,292.40	383.92	2.70	0.20	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	5
6	1,292.90	388.32	2.70	0.20	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	6
7	1,293.50	393.60	2.70	0.20	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.90	1.90	7
8	1,294.00	398.00	2.70	0.20	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.80	1.80	8
9	1,294.60	403.40	2.70	0.20	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.70	1.70	9
10	1,294.10	381.28	2.70	13.50	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.60	1.60	10
11	1,287.60	342.72	2.70	20.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	11
12	1,281.90	300.34	2.70	25.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	12
13	1,276.50	366.50	2.70	22.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	13
14	1,269.50	229.50	2.70	24.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	14
15	1,261.90	194.05	2.70	22.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	15
16	1,253.90	158.16	2.90	21.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	16
17	1,244.90	119.08	2.80	20.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	17
18	1,234.90	77.60	2.80	18.40	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	18
19	1,233.70	72.86	2.80	4.90	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	19
20	1,235.60	80.46	2.80	0.40	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	20
21	1,237.10	86.61	2.80	0.40	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	21
22	1,238.50	92.35	2.80	0.40	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	22
23	1,239.70	97.27	2.80	0.40	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	23
24	1,180.00	0.00	2.80	49.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	24
25	1,180.00	0.00	2.80	4.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	25
26	1,180.00	0.00	2.80	4.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	26
27	1,180.00	0.00	2.80	4.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	27
28	1,180.00	0.00	2.80	3.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	28
29	1,180.00	0.00	2.80	3.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	29
30	1,180.00	0.00	2.80	3.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	2.00	2.00	1,180.00	0.00	1.50	1.50	30
31									1,180.00	0.00	2.00	2.00					31
TOTAL			82.50	264.20			65.00	65.00		0.00	62.00	62.00			49.00	49.00	
Inf. Ac. Ft.		163.6				128.9				122.9				97.1		3,376.4	
Outf. Ac. Ft.		524.0				128.9				122.9				97.1		3,579.3	
Maximum Mean Daily Inflow		2.8				3.0				2.0				2.0		55.7	
Minimum Mean Daily Inflow		2.7				2.0				2.0				1.5		0.1	
Storage Change		− 360.4				0				0				0		− 203.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,293.3	feet	on	11/21/67	Storage	356.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,180.0	feet	on	JUNE – SEPT.	Storage	0	Acre Feet	D. G. RAINES	Dam Tender	Gage Hts. copied	GF	JSL 4/10/69
Max. Peak Inf.	164.7	C.F.S. from	12:00 NOON	on 11/19/67	to	2:00 P.M.	on 11/19/67	R. V. WOOD	Hydrographer	Storage applied	GF	JSL 4/10/69
Max. Peak Outf.	50.0	C.F.S. from	12:30 P.M.	on 11/21/67	to	10:00 P.M.	on 11/21/67		Hydrographer	Inf. & Outf. comp.	GF	JSL 4/10/69

REMARKS (INDICATES AVERAGE FOR PERIOD.

76D138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 1969

Drainage Area 10.8 Square Miles. Capacity of Reservoir 258.1 / 329.8 / 690.8 Ac. Ft. at Spillway Elev. 1,316.0 Ft. as of March 69 / February 69 / October 1968

Continuous Water Stage Recorder Stevens A-35

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1			1.5	1.5	1,207.6	12.1	0.9	0.3	1,235.8	71.8	1.2	0.3	1,255.7	141.8	1.9	0.3	1
2			1.5	1.5	1,208.7	13.5	1.0	0.3	1,236.4	73.6	1.2	0.3	1,256.4	144.6	1.7	0.3	2
3			1.5	1.5	1,209.7	14.8	1.0	0.3	1,237.1	75.7	1.4	0.3	1,257.1	147.4	1.7	0.3	3
4			1.5	1.5	1,210.9	16.5	1.1	0.3	1,237.8	77.9	1.4	0.3	1,257.7	149.9	1.5	0.3	4
5			1.5	1.5	1,212.1	18.2	1.2	0.3	1,238.5	80.1	1.4	0.3	1,258.3	152.3	1.6	0.3	5
6			1.5	1.5	1,212.1	19.2	0.3	0.3	1,239.1	82.0	1.3	0.3	1,258.9	154.8	1.6	0.3	6
7			1.5	1.5	1,214.3	21.6	2.0	0.3	1,239.7	83.9	1.3	0.3	1,259.4	156.9	1.4	0.3	7
8			1.5	1.5	1,215.6	23.8	1.4	0.3	1,240.3	85.9	1.3	0.3	1,260.0	159.5	1.6	0.3	8
9			1.5	1.5	1,216.6	25.6	1.2	0.3	1,240.8	87.5	1.1	0.3	1,260.6	162.0	1.6	0.3	9
10			1.5	1.5	1,217.7	27.6	1.3	0.3	1,241.4	89.5	1.3	0.3	1,261.1	164.2	1.4	0.3	10
11			1.4	1.4	1,218.7	29.5	1.3	0.3	1,242.0	91.5	1.3	0.3	1,261.7	166.8	1.6	0.3	11
12			1.3	1.3	1,219.6	31.2	1.2	0.3	1,242.6	93.6	1.3	0.3	1,262.2	169.0	1.4	0.3	12
13			1.2	1.2	1,220.6	33.3	1.3	0.3	1,243.1	95.3	1.2	0.3	1,262.9	172.0	1.8	0.3	13
14			1.1	1.1	1,221.5	35.1	1.3	0.3	1,243.7	97.3	1.3	0.3	1,267.3	192.1	10.4	0.3	14
15			1.0	1.0	1,222.3	36.8	1.1	0.3	1,244.3	99.4	1.3	0.3	1,268.8	199.3	3.9	0.3	15
16			1.0	1.0	1,223.3	40.0	1.4	0.3	1,245.0	101.9	1.5	0.3	1,269.9	204.6	3.0	0.3	16
17			1.0	1.0	1,224.3	41.2	1.4	0.3	1,245.6	104.0	1.4	0.3	1,270.9	209.6	2.8	0.3	17
18			1.0	1.0	1,225.3	43.6	1.5	0.3	1,246.2	106.1	1.4	0.3	1,272.1	215.7	3.4	0.3	18
19			1.0	1.0	1,226.3	46.0	1.5	0.3	1,246.8	108.3	1.4	0.3	1,277.0	242.6	13.9	0.3	19
20			1.0	1.0	1,227.2	48.2	1.4	0.3	1,247.4	110.4	1.4	0.3	1,297.7	394.8	88.0	11.3	20
21			1.0	1.0	1,228.1	50.4	1.4	0.3	1,248.0	112.6	1.4	0.3	1,310.1	526.0	537.2	471.0	21
22			1.0	1.0	1,229.0	52.7	1.5	0.3	1,248.7	115.2	1.6	0.3	1,307.8	499.5	367.6	381.0	22
23			0.5	0.5	1,229.9	55.1	1.5	0.3	1,249.3	117.4	1.4	0.3	1,298.4	401.5	79.5	129.0	23
24	1,194.9	1.8	1.1	0.2	1,230.7	57.2	1.4	0.3	1,249.9	119.6	1.4	0.3	1,298.3	400.5	150.5	151.0	24
25	1,197.9	3.3	1.0	0.2	1,231.5	59.4	1.4	0.3	1,250.5	121.9	1.4	0.3	1,319.1	352.2*	2,291.9	2,170.0	25
26	1,200.2	4.9	1.0	0.2	1,232.2	61.3	1.3	0.3	1,251.2	124.4	1.6	0.3	1,318.8	349.9	1,258.9	1,260.0	26
27	1,201.7	6.0	0.8	0.2	1,233.0	63.6	1.4	0.3	1,251.9	127.1	1.6	0.3	1,317.8	342.6	716.3	720.0	27
28	1,203.1	7.3	0.8	0.2	1,233.8	65.9	1.5	0.3	1,252.6	129.7	1.6	0.3	1,317.5	340.4	403.9	405.0	28
29	1,204.4	8.5	0.8	0.2	1,234.5	67.9	1.3	0.3	1,253.4	132.8	1.8	0.3	1,317.2	338.3	280.9	282.0	29
30	1,205.6	9.7	0.8	0.2	1,235.2	70.0	1.3	0.3	1,254.2	135.9	1.8	0.3	1,317.0	336.9	217.3	218.0	30
31	1,206.6	10.9	0.8	0.2					1,254.9	138.6	1.7	0.3	1,316.9	336.2	180.6	180.0	31
TOTAL			35.5	30.1			38.7	9.0			43.9	9.3			6,629.8	6,384.0	
Inf. Ac. Ft.		70.5				76.9				87.0				13,150.1		13,384.5	
Outf. Ac. Ft.		59.7				17.8				18.4				12,662.4		12,758.3	
Maximum Mean Daily Inflow		1.5				2.0				1.8				2,291.8		2,291.8	
Minimum Mean Daily Inflow		0.5				0.3				1.1				1.3		0.3	
Storage Change		+ 10.8				+ 59.0				+ 68.6				+ 197.5		+ 366.2 *	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,328.0	feet	on	1/25/69	Storage	778.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,186.0	feet	on	10/1-10/23/68	Storage	0	Acre Feet	D. RAINES	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	5,818.	C.F.S. from	8:00 A.M.	on 1/25/69	to	9:00 A.M.	on 1/25/69	R. V. WOOD	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Outf.	5,500.	C.F.S. from	8:00 A.M.	on 1/25/69	to	10:00 A.M.	on 1/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS * 270.2 ACRE-FOOT LOSS DUE TO SILTATION - CHANGE TO STORAGE TABLE XVIII, 1/25/69.

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DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 1969

Drainage Area 10.8 Square Miles. Capacity of Reservoir 258.1 / 329.8 / 600.0 Ac. Ft. at Spillway Elev. 1,316.0 Ft. as of March 69 / February 69 / October 1968

Continuous Water Stage Recorder Stevens A-35

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,316.9	336.2	158.0	158.0	1,317.2	265.2	255.4	256.0	1,316.8	262.9	30.0	30.0			15.0	15.0	1
2	1,316.8	335.5	154.6	155.0	1,317.1	264.6	214.7	215.0	1,316.8	262.9	30.0	30.0			14.9	14.9	2
3	1,316.8	335.5	138.0	138.0	1,316.9	263.5	172.4	173.0	1,315.2	253.6	37.3	42.0			14.6	14.6	3
4	1,316.8	335.5	128.0	128.0	1,316.9	263.5	158.0	158.0	1,314.0	246.8	36.6	40.0			14.3	14.3	4
5	1,316.8	335.5	152.0	152.0	1,316.9	263.5	158.0	158.0	1,315.7	256.4	34.9	30.0			14.0	14.0	5
6	1,317.3	339.0	403.8	402.0	1,316.9	263.5	158.0	158.0	1,313.8	245.7	40.6	46.0			13.8	13.8	6
7	1,317.0	336.9	209.9	211.0	1,316.8	262.9	147.7	148.0	1,309.4	221.6	29.9	42.0			13.7	13.7	7
8	1,317.0	336.9	181.0	181.0	1,316.8	262.9	138.0	138.0	1,303.1	188.8	32.6	49.0			13.4	13.4	8
9	1,316.9	336.2	177.6	178.0	1,316.8	262.9	138.0	138.0	1,295.2	150.2	30.6	50.0			13.2	13.2	9
10	1,316.9	336.2	154.0	154.0	1,316.8	262.9	138.0	138.0	1,288.8	121.1	28.3	43.0			13.0	13.0	10
11	1,316.8	335.5	146.6	147.0	1,316.8	262.9	131.0	131.0	1,284.1	101.1	26.9	37.0			12.7	12.7	11
12	1,316.8	335.5	140.0	140.0	1,317.2	265.2	114.2	113.0	1,277.6	75.2	24.0	37.0			12.4	12.4	12
13	1,316.8	335.5	138.0	138.0	1,317.1	264.6	94.7	95.0	1,270.4	49.6	23.1	36.0			12.2	12.2	13
14	1,316.5	333.4	102.9	104.0	1,317.1	264.6	76.0	76.0	1,259.5	17.2	23.7	40.0			12.0	12.0	14
15	1,317.0	336.9	132.8	131.0	1,317.0	264.0	71.7	72.0	1,250.0	0	19.4	28.0			11.7	11.7	15
16	1,316.9	336.2	161.6	162.0	1,317.0	264.0	68.0	68.0			26.0	26.0	NO STORAGE		11.4	11.4	16
17	1,317.0	336.9	159.3	159.0	1,317.0	264.0	64.0	64.0			24.0	24.0			11.2	11.2	17
18	1,317.2	338.3	227.7	227.0	1,316.9	263.5	59.7	60.0			21.0	21.0			11.0	11.0	18
19	1,317.2	338.3	218.0	218.0	1,316.9	263.5	56.0	56.0			21.0	21.0			10.7	10.7	19
20	1,317.0	336.9	199.3	200.0	1,316.9	263.5	53.0	53.0			20.0	20.0			10.4	10.4	20
21	1,317.2	338.3	181.7	181.0	1,317.0	264.0	50.3	50.0			20.0	20.0			10.2	10.2	21
22	1,317.0	336.9	188.3	189.0	1,316.9	263.5	48.7	49.0			19.0	19.0			10.0	10.0	22
23	1,317.6	341.1	356.2	354.0	1,316.8	262.9	47.7	48.0			18.0	18.0			9.7	9.7	23
24	1,319.2	353.0	665.0	659.0	1,316.8	262.9	47.0	47.0			18.0	18.0			9.5	9.5	24
25	1,319.0	276.4*	1,779.2	1,780.0	1,316.8	262.9	45.0	45.0			18.0	18.0			9.3	9.3	25
26	1,317.9	269.5	761.5	765.0	1,316.8	262.9	43.0	43.0			17.0	17.0			9.1	9.1	26
27	1,317.5	267.1	418.8	420.0	1,316.8	262.9	42.0	42.0			17.0	17.0			8.9	8.9	27
28	1,317.4	266.5	307.7	308.0	1,316.8	262.9	41.0	41.0			16.0	16.0			8.7	8.7	28
29					1,316.8	262.9	38.0	38.0			16.0	16.0			8.5	8.5	29
30					1,316.8	262.9	35.0	35.0			15.0	15.0			8.3	8.3	30
31					1,316.8	262.9	32.0	32.0							8.1	8.1	31
TOTAL			3,141.6	3,139.0			2936.1	2938.0			733.5	866.0			355.9	355.9	
Inf. Ac. Ft.		16,149.7				5,823.8				1,454.9				705.9		37,517.8	
Outf. Ac. Ft.		16,143.4				5,827.4				1,717.6				705.9		37,152.6	
Maximum Mean Daily Inflow		1,779.2				285.3				40.5				15.0		2,291.8	
Minimum Mean Daily Inflow		102.9				32.0				15.0				8.1		0.3	
Storage Change	− 69.7				− 3.5				− 262.7				0			0*	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,328.0	feet	on	1/25/69	Storage	778.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,186.0	feet	on	10/1-10/23/68	Storage	0	Acre Feet	D. RAINES	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	5,818.	C.F.S. from	8:00 A.M.	on	1/25/69	to	9:00 A.M.	on	1/25/69	R. V. WOOD	Hydrographer	Storage applied	RAP-JSL
Max. Peak Outf.	5,500.	C.F.S. from	8:00 A.M.	on	1/25/69	to	10:00 A.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL

REMARKS * 71.1 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XIV, 2/25/69. (341.3 ACRE-FOOT TOTAL LOSS DUE TO SILTATION)

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DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 1969

Drainage Area 10.8 Square Miles. Capacity of Reservoir 258.1 / 329.8 / 600.0 Ac. Ft. at Spillway Elev. 1,316.0 Ft. as of March 69 / February 69 / October 1968

Continuous Water Stage Recorder Stevens A-35

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1			7.9	7.9			5.7	5.7			5.5	5.5			4.1	4.1	1
2			7.7	7.7			5.6	5.6			5.5	5.5			4.0	4.0	2
3			7.4	7.4			5.6	5.6			5.4	5.4			4.0	4.0	3
4			7.1	7.1			5.6	5.6			5.3	5.3			4.0	4.0	4
5			6.9	6.9			5.6	5.6			5.3	5.3			4.0	4.0	5
6			6.8	6.8			5.6	5.6			5.3	5.3			3.9	3.9	6
7			6.7	6.7			5.5	5.5			5.3	5.3			3.9	3.9	7
8			6.6	6.6			5.5	5.5			5.1	5.1			3.9	3.9	8
9			6.5	6.5			5.5	5.5			4.9	4.9			3.9	3.9	9
10			6.4	6.4			5.4	5.4			4.7	4.7			3.8	3.8	10
11			6.3	6.3			5.4	5.4			4.5	4.5			3.8	3.8	11
12			6.3	6.3			5.4	5.4			4.3	4.3			3.8	3.8	12
13			6.3	6.3			5.3	5.3			4.2	4.2			3.7	3.7	13
14			6.3	6.3			5.3	5.3			4.1	4.1			3.7	3.7	14
15			6.3	6.3			5.3	5.3			4.1	4.1			3.7	3.7	15
16		NO STORAGE	6.2	6.2		NO STORAGE	5.2	5.2		NO STORAGE	4.1	4.1		NO STORAGE	3.7	3.7	16
17			6.2	6.2			5.2	5.2			4.2	4.2			3.7	3.7	17
18			6.2	6.2			5.3	5.3			4.2	4.2			3.6	3.6	18
19			6.1	6.1			5.4	5.4			4.3	4.3			3.6	3.6	19
20			6.1	6.1			5.5	5.5			4.3	4.3			3.5	3.5	20
21			6.1	6.1			5.6	5.6			4.3	4.3			3.5	3.5	21
22			6.0	6.0			5.7	5.7			4.3	4.3			3.5	3.5	22
23			6.0	6.0			5.8	5.8			4.3	4.3			3.4	3.4	23
24			6.0	6.0			5.9	5.9			4.3	4.3			3.4	3.4	24
25			5.9	5.9			5.9	5.9			4.2	4.2			3.4	3.4	25
26			5.9	5.9			5.8	5.8			4.2	4.2			3.3	3.3	26
27			5.9	5.9			5.8	5.8			4.2	4.2			3.2	3.2	27
28			5.8	5.8			5.7	5.7			4.2	4.2			3.1	3.1	28
29			5.8	5.8			5.7	5.7			4.1	4.1			3.1	3.1	29
30			5.7	5.7			5.6	5.6			4.1	4.1			3.0	3.0	30
31							5.6	5.6			4.1	4.1					31
TOTAL			191.4	191.4			172.0	172.0			140.9	140.9			109.2	109.2	
Inf. Ac. Ft.		379.6				341.1				279.4				216.5		38,734.4	
Outf. Ac. Ft.		379.6				341.1				279.4				216.5		38,369.2	
Maximum Mean Daily Inflow		7.9				5.9				5.5				4.1		2,291.8	
Minimum Mean Daily Inflow		5.7				5.2				4.1				3.0		0.3	
Storage Change	0				0				0				0			0*	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,328.0	feet	on	1/25/69	Storage	778.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,186.0	feet	on	10/1-10/23/68	Storage	0	Acre Feet	D. RAINES	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	5,818.	C.F.S. from	8:00 A.M.	on	1/25/69	to	9:00 A.M.	on	1/25/69	R. V. WOOD	Hydrographer	Storage applied	RAP-JSL
Max. Peak Outf.	5,500.	C.F.S. from	8:00 A.M.	on	1/25/69	to	10:00 A.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL

REMARKS * 341.3 ACRE-FOOT TOTAL LOSS DUE TO SILTATION.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 3.34 Square Miles. Capacity of Reservoir 269.2 Ac. Ft. at Spillway Elev. 1,360.0 Ft. as of March 1967 Gage Heights Read Daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				Day
	Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	
1	1,310.1	27.9	2.9	2.9	1,310.1	27.9	2.4	2.4	1,310.1	27.9	3.0	3.0	1,310.2	28.1	2.4	2.4	1
2	1,310.1	27.9	2.8	2.8	1,310.1	27.9	2.4	2.4	1,310.1	27.9	3.0	3.0	1,310.2	28.1	2.4	2.4	2
3	1,310.1	27.9	2.8	2.8	1,310.1	27.9	2.4	2.4	1,310.1	27.9	3.0	3.0	1,310.2	28.1	2.4	2.4	3
4	1,310.1	27.9	2.8	2.8	1,310.1	27.9	2.4	2.4	1,310.1	27.9	3.0	3.0	1,310.2	28.1	2.4	2.4	4
5	1,310.1	27.9	2.8	2.8	1,310.1	27.9	2.3	2.3	1,310.1	27.9	3.0	3.0	1,310.2	28.1	2.4	2.4	5
6	1,310.1	27.9	2.7	2.7	1,310.1	27.9	2.2	2.2	1,310.1	27.9	3.0	3.0	1,310.2	28.1	2.4	2.4	6
7	1,310.1	27.9	2.6	2.6	1,310.1	27.9	2.1	2.1	1,310.1	27.9	3.0	3.0	1,310.2	28.1	2.4	2.4	7
8	1,310.1	27.9	2.5	2.5	1,310.1	27.9	2.0	2.0	1,310.1	27.9	3.0	3.0	1,310.2	28.1	2.4	2.4	8
9	1,310.1	27.9	2.4	2.4	1,310.1	27.9	2.0	2.0	1,310.1	27.9	3.0	3.0	1,310.2	28.1	2.4	2.4	9
10	1,310.1	27.9	2.4	2.4	1,310.1	27.9	2.0	2.0	1,310.1	27.9	3.0	3.0	1,310.2	28.1	2.4	2.4	10
11	1,310.1	27.9	2.3	2.3	1,310.1	27.9	2.1	2.1	1,310.1	27.9	2.9	2.9	1,310.1	27.9	2.3	2.4	11
12	1,310.1	27.9	2.3	2.3	1,310.1	27.9	2.1	2.1	1,310.1	27.9	2.9	2.9	1,310.1	27.9	2.4	2.4	12
13	1,310.1	27.9	2.3	2.3	1,310.1	27.9	2.2	2.2	1,310.1	27.9	2.9	2.9	1,310.1	27.9	2.4	2.4	13
14	1,310.1	27.9	2.4	2.4	1,310.1	27.9	2.2	2.2	1,310.1	27.9	2.9	2.9	1,310.1	27.9	2.4	2.4	14
15	1,310.1	27.9	2.4	2.4	1,310.1	27.9	2.3	2.3	1,310.1	27.9	2.9	2.9	1,310.1	27.9	2.4	2.4	15
16	1,310.1	27.9	2.4	2.4	1,310.1	27.9	2.3	2.3	1,310.1	27.9	2.9	2.9	1,310.1	27.9	2.3	2.3	16
17	1,310.1	27.9	2.5	2.5	1,310.1	27.9	2.3	2.3	1,310.1	27.9	2.9	2.9	1,310.1	27.9	2.3	2.3	17
18	1,310.1	27.9	2.5	2.5	1,310.1	27.9	2.3	2.3	1,310.2	28.1	4.1	4.0	1,310.1	27.9	2.3	2.3	18
19	1,310.1	27.9	2.5	2.5	1,310.2	28.1	12.2	12.2	1,310.2	28.1	3.6	3.6	1,310.1	27.9	2.3	2.3	19
20	1,310.1	27.9	2.5	2.5	1,310.2	28.1	5.9	5.9	1,310.2	28.1	3.6	3.6	1,310.1	27.9	2.3	2.3	20
21	1,310.1	27.9	2.5	2.5	1,310.3	28.2	8.4	8.4	1,310.2	28.1	3.5	3.5	1,310.1	27.9	2.3	2.3	21
22	1,310.1	27.9	2.5	2.5	1,310.2	28.1	4.0	4.1	1,310.2	28.1	3.4	3.4	1,310.1	27.9	2.3	2.3	22
23	1,310.1	27.9	2.5	2.5	1,310.2	28.1	3.6	3.6	1,310.2	28.1	3.3	3.3	1,310.0	27.8	2.2	2.3	23
24	1,310.1	27.9	2.5	2.5	1,310.1	27.9	2.3	2.3	1,310.2	28.1	3.2	3.2	1,310.0	27.8	2.3	2.3	24
25	1,310.1	27.9	2.5	2.5	1,310.1	27.9	2.3	2.3	1,310.2	28.1	3.0	3.0	1,310.0	27.8	2.3	2.3	25
26	1,310.1	27.9	2.5	2.5	1,310.1	27.9	2.3	2.3	1,310.2	28.1	2.8	2.8	1,310.1	27.9	2.3	2.3	26
27	1,310.1	27.9	2.5	2.5	1,310.1	27.9	2.3	2.3	1,310.2	28.1	2.6	2.6	1,310.1	27.9	2.5	2.5	27
28	1,310.1	27.9	2.5	2.5	1,310.1	27.9	2.3	2.3	1,310.2	28.1	2.5	2.5	1,310.1	27.9	2.4	2.4	28
29	1,310.1	27.9	2.5	2.5	1,310.1	27.9	2.3	2.3	1,310.2	28.1	2.5	2.5	1,310.0	27.8	2.3	2.4	29
30	1,310.1	27.9	2.5	2.5	1,310.1	27.9	4.0	4.0	1,310.2	28.1	2.4	2.4	1,310.0	27.8	2.4	2.4	30
31	1,310.1	27.9	2.5	2.5					1,310.2	28.1	2.4	2.4	1,310.1	27.9	2.4	2.4	31
TOTAL			78.3	78.3			92.0	92.0			93.1	93.1			73.3	73.4	
Inf. Ac. Ft.		155.3				182.4				184.8				145.4		667.9	
Outf. Ac. Ft.		155.3				182.4				184.8				145.5		668.0	
Maximum Mean Daily Inflow		2.9				12.2				4.1				2.5		12.2	
Minimum Mean Daily Inflow		2.3				2.0				2.4				2.2		2.0	
Storage Change	0				0				+ 0.1				- 0.1			- 0.1	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,311.7	feet	on	11/19/67	Storage	30.4	Acre Feet		RECORDS COLLECTED BY			COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,302.2	feet	on	9/2/68	Storage	18.2	Acre Feet		J. MC GOWAN	Dam Tender		Gage Hts. copied	GF JSL	
Max. Peak Inf.	32.2	C. F. S. from	8:00 A.M.	on	11/19/67	to	10:00 A.M.	on	11/19/67	R. V. WOOD	Hydrographer	Storage applied	GF JSL	
Max. Peak Outf.	25.0	C. F. S. from	10:00 A.M.	on	11/20/67	to	12:00 MID.	on	11/21/67		Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 3.34 Square Miles. Capacity of Reservoir 269.2 Ac. Ft. at Spillway Elev. 1,360.0 Ft. as of March 1967 Gage Heights Read Daily

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	
1	1,310.1	27.9	2.4	2.4	1,310.1	27.9	2.0	2.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	1
2	1,310.1	27.9	2.4	2.4	1,310.1	27.9	2.0	2.0	1,310.1	27.9	2.3	2.3	1,310.0	27.8	1.6	1.6	2
3	1,310.1	27.9	2.4	2.4	1,310.1	27.9	2.0	2.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	3
4	1,310.1	27.9	2.4	2.4	1,310.1	27.9	2.0	2.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	4
5	1,310.1	27.9	2.4	2.4	1,310.0	27.8	1.9	2.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	5
6	1,310.1	27.9	2.4	2.4	1,310.0	27.8	2.0	2.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	6
7	1,310.1	27.9	2.4	2.4	1,310.2	28.1	3.2	3.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	7
8	1,310.1	27.9	2.4	2.4	1,310.2	28.1	12.0	12.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	8
9	1,310.1	27.9	2.4	2.4	1,310.1	27.9	3.8	3.9	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	9
10	1,310.1	27.9	2.4	2.4	1,310.1	27.9	3.0	3.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	10
11	1,310.1	27.9	2.4	2.4	1,310.1	27.9	3.0	3.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	11
12	1,310.1	27.9	2.4	2.4	1,310.1	27.9	3.0	3.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	12
13	1,310.1	27.9	2.6	2.6	1,310.1	27.9	3.0	3.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	13
14	1,310.1	27.9	2.6	2.6	1,310.1	27.9	3.0	3.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	14
15	1,310.1	27.9	2.6	2.6	1,310.1	27.9	2.3	2.3	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	15
16	1,310.1	27.9	2.5	2.5	1,310.1	27.9	2.3	2.3	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.7	1.7	16
17	1,310.1	27.9	2.4	2.4	1,310.0	27.8	2.2	2.3	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.7	1.7	17
18	1,310.1	27.9	2.3	2.3	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	18
19	1,310.1	27.9	2.1	2.1	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	19
20	1,310.1	27.9	2.0	2.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	20
21	1,310.1	27.9	2.0	2.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	21
22	1,310.1	27.9	2.0	2.0	1,310.1	27.9	2.4	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	22
23	1,310.1	27.9	2.0	2.0	1,310.1	27.9	2.3	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	23
24	1,310.1	27.9	2.0	2.0	1,310.1	27.9	2.3	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	24
25	1,310.1	27.9	2.0	2.0	1,310.0	27.8	2.2	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	25
26	1,310.1	27.9	2.0	2.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	26
27	1,310.1	27.9	2.0	2.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	27
28	1,310.1	27.9	2.0	2.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	28
29	1,310.1	27.9	2.0	2.0	1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	29
30					1,310.0	27.8	2.3	2.3	1,310.0	27.8	1.6	1.6	1,310.0	27.8	1.7	1.7	30
31					1,310.0	27.8	2.3	2.3					1,310.0	27.8	1.7	1.7	31
TOTAL			65.9	65.9			84.9	85.0			59.9	59.9			51.2	51.2	
Inf. Ac. Ft.		130.7				168.4				118.8				101.5		1,187.3	
Outf. Ac. Ft.		130.7				168.5				118.8				101.5		1,187.5	
Maximum Mean Daily Inflow		2.6				12.0				2.3				1.7		12.2	
Minimum Mean Daily Inflow		2.0				1.9				1.6				1.6		1.6	
Storage Change	0					- 0.1			0				0			- 0.2	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,311.7	feet	on	11/19/67	Storage	30.4	Acre Feet		RECORDS COLLECTED BY			COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,302.2	feet	on	9/2/68	Storage	18.2	Acre Feet		J. MC GOWAN	Dam Tender		Gage Hts. copied	GF JSL	
Max. Peak Inf.	32.2	C. F. S. from	8:00 A.M.	on	11/19/67	to	10:00 A.M.	on	11/19/67	R. V. WOOD	Hydrographer	Storage applied	GF JSL	
Max. Peak Outf.	25.0	C. F. S. from	10:00 A.M.	on	11/20/67	to	12:00 MID.	on	11/21/67		Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS

76D138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1968

Drainage Area 3.34 Square Miles. Capacity of Reservoir 269.2 Ac. Ft. at Spillway Elev. 1,360.0 Ft. as of March 1967

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1,310.0	27.8	1.7	1.7	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,310.0	27.8	1.2	1.2	1
2	1,310.0	27.8	1.7	1.7	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,310.0	27.8	1.2	1.2	2
3	1,310.0	27.8	1.7	1.7	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,310.0	27.8	1.2	1.2	3
4	1,310.0	27.8	1.7	1.7	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,310.0	27.8	1.2	1.2	4
5	1,310.0	27.8	1.7	1.7	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,307.8	25.0	1.0	2.4	5
6	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,306.1	22.8	0.9	2.0	6
7	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,304.6	21.1	0.9	1.8	7
8	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,303.4	19.7	1.1	1.8	8
9	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,302.4	18.5	1.2	1.8	9
10	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.4	1.4	1,310.0	27.6	1.2	1.2	1,303.5	19.8	1.9	1.2	10
11	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,305.1	21.6	1.1	0.2	11
12	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,306.5	23.4	1.1	0.2	12
13	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,307.8	25.0	1.0	0.2	13
14	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.2	1.2	1,309.1	26.6	1.0	0.2	14
15	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.3	1.3	1,310.0	27.8	0.8	0.2	15
16	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.2	1.2	16
17	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.2	1.2	17
18	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.2	1.2	18
19	1,310.0	27.8	1.8	1.8	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	0.9	0.9	19
20	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	0.9	0.9	20
21	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	0.9	0.9	21
22	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	0.9	0.9	22
23	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	0.9	0.9	23
24	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.6	1.3	1.3	1,310.0	27.8	0.9	0.9	24
25	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	0.9	0.9	25
26	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.1	1.1	26
27	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.1	1.1	27
28	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.1	1.1	28
29	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.1	1.1	29
30	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.1	1.1	30
31	1,310.0	27.8	1.4	1.4	1,310.0	27.8	1.3	1.3	1,310.0	27.8	1.3	1.3					31
TOTAL			49.8	49.9			42.0	42.0			38.9	38.9			32.2	32.2	

	JUNE	JULY	AUGUST	SEPTEMBER	
Inf. Ac. Ft.	98.7	83.3	77.1	63.9	1,510.3
Outf. Ac. Ft.	98.7	83.3	77.1	63.9	1,510.5
Maximum Mean Daily Inflow	1.8	1.4	1.3	1.2	12.2
Minimum Mean Daily Inflow	1.3	1.3	1.2	0.8	0.8
Storage Change	0	0	0	0	− 0.2

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,311.7	feet	on	11/19/67	Storage	30.4	Acre Feet		
Min. W. S. Elev.	1,302.2	feet	on	9/2/68	Storage	18.2	Acre Feet		
Max. Peak Inf.	32.2	C. F. S. from	8:00 A.M.	on	11/19/67	to	10:00 A.M.	on	11/19/67
Max. Peak Outf.	25.0	C. F. S. from	10:00 A.M.	on	11/20/67	to	12:00 MID.	on	11/21/67

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
J. MC GOWAN	Dam Tender	Gage Hts. copied	GF JSL	
R. V. WOOD	Hydrographer	Storage applied	GF JSL	
	Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS

76D138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1969

Drainage Area 3.34 Square Miles. Capacity of Reservoir 154.7 / 147.2 / 269.2 Ac. Ft. at Spillway Elev. 1,360.0 Ft. as of March 69 / February 69 / March 1967

Continuous Water Stage Recorder Stevens A-35

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	1,310.0	27.8	2.9	2.9	1,310.0	27.8	2.4	2.4	1,310.0	27.8	3.4	3.4	1,318.4	27.8	0.9	0.9	1
2	1,310.0	27.8	2.9	2.9	1,310.0	27.8	2.4	2.4	1,310.0	27.8	3.3	3.3	1,310.0	27.8	0.9	0.9	2
3	1,310.0	27.8	2.9	2.9	1,310.0	27.8	2.3	2.3	1,310.0	27.8	3.3	3.3	1,310.0	27.8	0.9	0.9	3
4	1,310.0	27.8	2.9	2.9	1,310.0	27.8	2.3	2.3	1,310.0	27.8	3.2	3.2	1,310.0	27.8	0.9	0.9	4
5	1,310.0	27.8	2.9	2.9	1,310.0	27.8	2.2	2.2	1,310.0	27.8	3.2	3.2	1,310.0	27.8	0.9	0.9	5
6	1,310.0	27.8	2.8	2.8	1,310.0	27.8	2.2	2.2	1,310.0	27.8	3.1	3.1	1,310.0	27.8	0.9	0.9	6
7	1,310.0	27.8	2.7	2.7	1,310.0	27.8	2.1	2.1	1,310.0	27.8	3.0	3.0	1,310.0	27.8	0.9	0.9	7
8	1,310.0	27.8	2.6	2.6	1,310.0	27.8	2.1	2.1	1,310.0	27.8	3.0	3.0	1,310.0	27.8	0.9	0.9	8
9	1,310.0	27.8	2.5	2.5	1,310.0	27.8	2.0	2.0	1,310.0	27.8	3.0	3.0	1,310.0	27.8	0.9	0.9	9
10	1,310.0	27.8	2.4	2.4	1,310.0	27.8	2.0	2.0	1,310.0	27.8	3.0	3.0	1,310.0	27.8	0.9	0.9	10
11	1,310.0	27.8	2.3	2.3	1,310.0	27.8	2.1	2.1	1,310.0	27.8	2.9	2.9	1,310.0	27.8	0.9	0.9	11
12	1,310.0	27.8	2.3	2.3	1,310.0	27.8	2.1	2.1	1,310.0	27.8	2.9	2.9	1,310.0	27.8	0.9	0.9	12
13	1,310.0	27.8	2.3	2.3	1,310.0	27.8	2.2	2.2	1,310.0	27.8	2.9	2.9	1,310.0	27.8	2.0	2.0	13
14	1,310.0	27.8	2.4	2.4	1,310.0	27.8	2.2	2.2	1,310.0	27.8	2.9	2.9	1,310.0	27.8	2.6	2.6	14
15	1,310.0	27.8	2.4	2.4	1,310.0	27.8	2.3	2.3	1,310.0	27.8	2.9	2.9	1,310.0	27.8	1.3	1.3	15
16	1,310.0	27.8	2.4	2.4	1,310.0	27.8	2.3	2.3	1,310.0	27.8	2.9	2.9	1,310.0	27.8	1.2	1.2	16
17	1,310.0	27.8	2.5	2.5	1,310.0	27.8	2.7	2.7	1,310.0	27.8	2.9	2.9	1,310.0	27.8	1.1	1.1	17
18	1,310.0	27.8	2.5	2.5	1,310.0	27.8	3.1	3.1	1,310.0	27.8	2.8	2.8	1,310.1	28.0	1.3	1.2	18
19	1,310.0	27.8	2.5	2.5	1,310.0	27.8	3.6	3.6	1,310.0	27.8	2.8	2.8	1,310.1	28.0	1.8	1.8	19
20	1,310.0	27.8	2.5	2.5	1,310.0	27.8	4.0	4.0	1,310.0	27.8	2.8	2.8	1,310.6	28.7	8.6	8.2	20
21	1,310.0	27.8	2.5	2.5	1,310.0	27.8	4.5	4.5	1,310.0	27.8	2.7	2.7	1,324.1	59.5	55.5	40.0	21
22	1,310.0	27.8	2.5	2.5	1,310.0	27.8	5.0	5.0	1,310.0	27.8	2.7	2.7	1,339.3	124.4	76.7	44.0	22
23	1,310.0	27.8	2.5	2.5	1,310.0	27.8	4.8	4.8	1,310.0	27.8	2.6	2.6	1,325.2	63.2	6.1	37.0	23
24	1,310.0	27.8	2.5	2.5	1,310.0	27.8	4.6	4.6	1,310.0	27.8	2.6	2.6	1,317.0	40.4	20.5	32.0	24
25	1,310.0	27.8	2.5	2.5	1,310.0	27.8	4.4	4.4	1,310.0	27.8	2.6	2.6	1,346.0	73.6*	427.0	364.7	25
26	1,310.0	27.8	2.5	2.5	1,310.0	27.8	4.2	4.2	1,310.0	27.8	2.5	2.5	1,330.7	26.8	166.4	190.0	26
27	1,310.0	27.8	2.5	2.5	1,310.0	27.8	4.0	4.0	1,310.0	27.8	2.5	2.5	1,333.8	33.7	123.5	120.0	27
28	1,310.0	27.8	2.5	2.5	1,310.0	27.8	3.8	3.8	1,310.0	27.8	2.5	2.5	1,338.9	47.8	46.1	39.0	28
29	1,310.0	27.8	2.5	2.5	1,310.0	27.8	3.6	3.6	1,310.0	27.8	2.5	2.5	1,332.8	31.3	26.7	35.0	29
30	1,310.0	27.8	2.4	2.4	1,310.0	27.8	3.4	3.4	1,310.0	27.8	2.5	2.5	1,318.8	9.2	21.9	33.0	30
31	1,310.0	27.8	2.4	2.4					1,310.0	27.8	2.5	2.5	1,318.2	8.6	29.7	30.0	31
TOTAL			78.9	78.9			90.9	90.9			88.4	88.4			1,030.8	994.9	

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	
Inf. Ac. Ft.	156.4	180.2	175.3	2,044.5	2,555.4
Outf. Ac. Ft.	156.4	180.2	175.3	1,973.3	2,483.4
Maximum Mean Daily Inflow	2.9	5.0	3.4	427.0	427.0
Minimum Mean Daily Inflow	2.3	2.0	2.5	0.9	0.9
Storage Change	0	0	0	− 19.1	− 19.1*

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,367.8	feet	on	1/25/69	Storage	341.3	Acre Feet		
Min. W. S. Elev.	1,305.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		
Max. Peak Inf.	815.	C. F. S. from	5:00 A.M.	on	1/25/69	to	7:00 A.M.	on	1/25/69
Max. Peak Outf.	553	C. F. S. from	9:45 A.M.	on	1/25/69	to	9:50 A.M.	on	1/25/69

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
J. MC GOWAN	Dam Tender	Gage Hts. copied	RAP-JSL	
R. V. WOOD	Hydrographer	Storage applied	RAP-JSL	
	Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS * 90.5 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XIV. 1/25/69.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1969

154.7 March 69
147.2 February 69
Drainage Area 3.34 Square Miles. Capacity of Reservoir 269.2 Ac. Ft. at Spillway Elev. 1,360.0 Ft. as of March 1967

Continuous Water Stage Recorder Stevens A-35
Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1318.3	8.7	29.0	29.0	1357.9	142.4	38.6	46.0			13.0	13.0			8.0	8.0	1
2	1318.3	8.7	29.0	29.0	1353.6	118.7	28.1	40.0			12.0	12.0			8.0	8.0	2
3	1318.2	8.6	27.9	28.0	1343.1	68.9	11.9	37.0			12.0	12.0			8.0	8.0	3
4	1318.1	8.5	27.9	28.0	1326.6	18.2	8.5	34.0			12.0	12.0			8.0	8.0	4
5	1317.0	7.4	27.5	28.0	1315.5	3.7	23.7	31.0			12.0	12.0			8.0	8.0	5
6	1318.4	8.8	26.7	26.0	1316.5	4.6	29.4	29.0			12.0	12.0			8.0	8.0	6
7	1319.3	9.7	24.5	24.0	1315.5	3.7	26.6	27.0			11.0	11.0			8.0	8.0	7
8	1322.6	13.6	23.9	22.0	1305.0	0	23.1	25.0			11.0	11.0			8.0	8.0	8
9	1323.3	14.5	20.5	20.0			23.0	23.0			11.0	11.0			8.0	8.0	9
10	1331.0	27.4	16.5	10.0			22.0	22.0			10.0	10.0			8.0	8.0	10
11	1330.4	2.2	10.3	23.0			21.0	21.0			10.0	10.0			8.0	8.0	11
12	1330.2	2.0	15.9	16.0			21.0	21.0			10.0	10.0			8.0	8.0	12
13	1330.5	2.2	16.1	16.0			20.0	20.0			10.0	10.0			7.0	7.0	13
14	1330.5	2.2	16.0	16.0			20.0	20.0			10.0	10.0			7.0	7.0	14
15	1330.5	2.2	16.0	16.0			19.0	19.0			10.0	10.0			7.0	7.0	15
16	1331.5	2.9	16.3	16.0			19.0	19.0			10.0	10.0			7.0	7.0	16
17	1330.8	2.4	15.8	16.0			18.0	18.0			10.0	10.0			7.0	7.0	17
18	1304.0	0	14.7	16.0			18.0	18.0			10.0	10.0			6.0	6.0	18
19	1304.0	0	16.0	16.0			17.0	17.0			10.0	10.0			6.0	6.0	19
20	1304.0	0	16.0	16.0			17.0	17.0			10.0	10.0			6.0	6.0	20
21	1304.5	0	16.0	16.0			17.0	17.0			9.0	9.0			6.0	6.0	21
22	1306.0	0.2	16.1	16.0			17.0	17.0			9.0	9.0			6.0	6.0	22
23	1341.6	56.7	58.5	30.0	1307.6	0.2	17.1	17.0			9.0	9.0			6.0	6.0	23
24	1359.6	144.7	111.4	67.0	1306.0	+	16.9	17.0			0.8	8.0			6.0	6.0	24
25	1362.9	172.8*	634.9	624.0	1306.0	+	16.0	16.0			0.8	8.0			5.0	5.0	25
26	1361.5	164.5	513.8	518.0	1305.0	0	16.0	16.0			0.8	8.0			5.0	5.0	26
27	1360.8	159.6	186.5	189.0			15.0	15.0			0.8	8.0			5.0	5.0	27
28	1360.4	157.1	87.8	89.0			15.0	15.0			0.8	8.0			5.0	5.0	28
29							14.0	14.0			0.0	8.0			5.0	5.0	29
30							14.0	14.0			0.0	8.0			5.0	5.0	30
31							13.0	13.0							5.0	5.0	31
TOTAL			2031.6	1960.0			595.7	675.0			299.0	299.0			208.0	208.0	
Inf. Ac. Ft.		4,029.6				1,181.7				593.0				412.5		6,772.2	
Outf. Ac. Ft.		3,887.6				1,338.8				593.0				412.5		8,715.3	
Maximum Mean Daily Inflow		634.8				38.5				13.0				8.0		634.8	
Minimum Mean Daily Inflow		10.2				8.4				8.0				5.0		10.2	
Storage Change	+ 148.5				- 157.1				0				0			- 27.7 *	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,367.8	feet	on	1/25/69	Storage	341.3	Acre Feet	RECORDS COLLECTED BY			COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,305.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	J. MC GOWAN	Dam Tender		Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	815.	C.F.S. from	5:00 A.M.	on	1/25/69	to	7:00 A.M.	on	1/25/69	R. V. WOOD	Hydrographer		Storage applied	RAP-JSL	
Max. Peak Outf.	553.	C.F.S. from	9:45 A.M.	on	1/25/69	to	9:50 A.M.	on	1/25/69		Hydrographer		Inf. & Outf. comp.	RAP-JSL	

REMARKS * 28.0 ACRE-FOOT LOSS DUE TO SILTATION, CHANGE TO STORAGE TABLE XV, 1/25/69. (119.0 ACRE-FOOT TOTAL LOSS DUE TO SILTATION)
+ = 0.05 CFS OR LESS.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1969

154.7 March 69
147.2 February 69
Drainage Area 3.34 Square Miles. Capacity of Reservoir 269.2 Ac. Ft. at Spillway Elev. 1,360.0 Ft. as of March 1967

Continuous Water Stage Recorder Stevens A-35
Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1			5.0	5.0			4.0	4.0			2.0	2.0			3.0	3.0	1
2			5.0	5.0			4.0	4.0			2.0	2.0			4.0	4.0	2
3			5.0	5.0			4.0	4.0			2.0	2.0			4.0	4.0	3
4			5.0	5.0			4.0	4.0			2.0	2.0			4.0	4.0	4
5			5.0	5.0			4.0	4.0			2.0	2.0			3.0	3.0	5
6			5.0	5.0			4.0	4.0			2.0	2.0			3.0	3.0	6
7			5.0	5.0			4.0	4.0			2.0	2.0			3.0	3.0	7
8			5.0	5.0			4.0	4.0			2.0	2.0			3.0	3.0	8
9			5.0	5.0			4.0	4.0			2.0	2.0			3.0	3.0	9
10			5.0	5.0			4.0	4.0			2.0	2.0			3.0	3.0	10
11			5.0	5.0			4.0	4.0			2.0	2.0			3.0	3.0	11
12			4.0	4.0			4.0	4.0			2.0	2.0			2.0	2.0	12
13			4.0	4.0			4.0	4.0			2.0	2.0			2.0	2.0	13
14			4.0	4.0			4.0	4.0			2.0	2.0			2.0	2.0	14
15			4.0	4.0			4.0	4.0			2.0	2.0			2.0	2.0	15
16			4.0	4.0			4.0	4.0			2.0	2.0			2.0	2.0	16
17			4.0	4.0			4.0	4.0			2.0	2.0			2.0	2.0	17
18			4.0	4.0			4.0	4.0			2.0	2.0			2.0	2.0	18
19			4.0	4.0			4.0	4.0			2.0	2.0			2.0	2.0	19
20			4.0	4.0			4.0	4.0			2.0	2.0			2.0	2.0	20
21			4.0	4.0			4.0	4.0			3.0	3.0			2.0	2.0	21
22			4.0	4.0			4.0	4.0			3.0	3.0			2.0	2.0	22
23			4.0	4.0			4.0	4.0			3.0	3.0			2.0	2.0	23
24			4.0	4.0			4.0	4.0			3.0	3.0			2.0	2.0	24
25			4.0	4.0			3.0	3.0			3.0	3.0			2.0	2.0	25
26			4.0	4.0			3.0	3.0			3.0	3.0			2.0	2.0	26
27			4.0	4.0			3.0	3.0			3.0	3.0			2.0	2.0	27
28			4.0	4.0			3.0	3.0			3.0	3.0			2.0	2.0	28
29			4.0	4.0			3.0	3.0			3.0	3.0			2.0	2.0	29
30			4.0	4.0			3.0	3.0			3.0	3.0			2.0	2.0	30
31							3.0	3.0			3.0	3.0					31
TOTAL			131.0	131.0			117.0	117.0			73.0	73.0			74.0	74.0	
Inf. Ac. Ft.		259.8				232.0				144.7				146.7		7,555.4	
Outf. Ac. Ft.		259.8				232.0				144.7				146.7		9,498.5	
Maximum Mean Daily Inflow		5.0				4.0				3.0				4.0		5.0	
Minimum Mean Daily Inflow		4.0				3.0				2.0				2.0		2.0	
Storage Change	0				0				0				0			- 27.7 *	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,367.8	feet	on	1/25/69	Storage	341.3	Acre Feet	RECORDS COLLECTED BY			COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,305.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	J. MC GOWAN	Dam Tender		Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	815.	C.F.S. from	5:00 A.M.	on	1/25/69	to	7:00 A.M.	on	1/25/69	R. V. WOOD	Hydrographer		Storage applied	RAP-JSL	
Max. Peak Outf.	553.	C.F.S. from	9:45 A.M.	on	1/25/69	to	9:50 A.M.	on	1/25/69		Hydrographer		Inf. & Outf. comp.	RAP-JSL	

REMARKS * 119.0 ACRE-FOOT TOTAL LOSS DUE TO SILTATION.

7601386-689 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of COGSWELL Dam

In San Gabriel Canyon – West Fork for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Stevens A-35

Drainage Area 39.2 Square Miles. Capacity of Reservoir 9,999.1 Ac. Ft. at Spillway Elev. 2,385.0 Ft. as of June 19 66 Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	2362.4	7,026.5	8.2	50.0	2335.8	4339.7	4.3	46.0	2317.9	2979.4	33.5	88.0	2301.6	2011.8	18.0	50.0	1
2	2361.6	6934.8	5.2	50.0	2334.9	4258.5	5.9	46.0	2316.0	2855.4	23.7	86.0	2300.4	1947.3	17.4	50.0	2
3	2360.8	6843.8	5.4	50.0	2334.2	4198.2	5.3	35.0	2314.1	2732.2	21.2	83.0	2299.1	1882.6	17.3	50.0	3
4	2360.1	6755.9	7.8	51.0	2334.0	4185.6	5.7	11.2	2312.3	2618.9	24.0	81.0	2298.5	1854.1	16.8	31.0	4
5	2359.3	6668.9	7.2	50.0	2333.8	4171.5	5.2	11.6	2310.4	2502.1	20.3	79.0	2298.7	1862.9	16.5	11.9	5
6	2358.5	6581.5	7.4	50.0	2333.7	4158.3	5.6	11.6	2309.5	2450.6	27.1	53.0	2298.8	1869.3	15.3	11.9	6
7	2357.7	6494.7	6.9	49.0	2333.5	4144.2	5.2	11.6	2310.1	2485.2	19.4	1.9	2298.9	1875.7	15.3	11.9	7
8	2356.9	6404.2	5.1	49.0	2333.3	4129.3	4.5	11.6	2310.1	2482.2	16.4	17.7	2299.1	1881.1	14.5	11.6	8
9	2356.1	6316.8	5.6	48.0	2333.1	4113.6	4.5	11.6	2308.9	2410.9	15.3	51.0	2299.1	1885.6	14.0	11.6	9
10	2355.3	6226.9	4.1	48.0	2333.0	4098.7	4.8	11.6	2307.6	2337.1	12.9	50.0	2299.3	1891.6	14.3	11.2	10
11	2354.5	6136.6	3.9	48.0	2332.8	4085.6	5.7	11.6	2306.3	2265.9	14.3	50.0	2299.4	1900.1	15.6	11.2	11
12	2353.6	6049.1	4.1	47.0	2332.7	4074.1	6.5	11.6	2305.1	2196.7	15.2	50.0	2299.6	1906.0	14.4	11.2	12
13	2352.9	5968.5	4.9	44.0	2332.5	4059.4	4.4	11.2	2303.8	2123.8	13.5	50.0	2299.6	1910.5	13.7	11.2	13
14	2352.1	5882.4	6.0	48.0	2332.3	4046.3	5.2	11.2	2303.2	2091.7	16.1	32.0	2299.7	1914.0	13.1	11.2	14
15	2351.2	5794.8	5.6	48.0	2332.2	4033.2	4.1	10.2	2303.1	2087.9	15.3	16.8	2299.8	1920.5	13.0	9.6	15
16	2350.4	5705.9	6.3	49.0	2332.0	4020.9	5.5	11.2	2303.0	2082.0	14.1	16.8	2299.9	1924.5	12.3	10.2	16
17	2349.5	5616.8	5.8	49.0	2331.9	4008.8	5.5	11.2	2302.9	2077.3	14.7	16.8	2300.0	1928.0	12.3	10.5	17
18	2348.6	5529.5	6.8	49.0	2331.7	3996.6	5.4	11.2	2303.1	2090.6	23.5	16.8	2300.1	1933.6	13.5	10.5	18
19	2347.8	5442.1	7.6	50.0	2337.6	4491.6	264.6	15.1	2303.5	2112.0	27.1	16.4	2300.2	1936.1	11.9	10.5	19
20	2346.9	5356.5	8.4	50.0	2340.2	4725.6	150.9	33.0	2303.7	2118.4	19.7	16.4	2300.2	1937.6	11.8	10.9	20
21	2346.0	5272.8	7.8	49.0	2341.8	4865.7	337.6	267.0	2303.7	2122.1	18.4	16.4	2300.2	1940.2	12.4	10.9	21
22	2345.2	5186.1	6.1	49.0	2336.0	4352.4	197.6	456.0	2303.8	2127.0	19.0	16.4	2300.3	1942.2	12.4	11.2	22
23	2344.3	5099.5	5.5	48.0	2332.4	4056.9	83.4	232.0	2304.0	2135.5	21.3	16.8	2300.3	1943.7	12.1	11.2	23
24	2343.4	5015.7	6.7	48.0	2330.6	3910.4	30.6	104.0	2304.3	2153.5	26.0	16.8	2300.3	1943.7	11.8	11.6	24
25	2342.5	4930.9	5.8	47.0	2328.6	3751.2	21.3	101.0	2304.7	2174.2	27.4	16.8	2300.3	1944.2	12.1	11.6	25
26	2341.6	4848.1	6.2	47.0	2326.5	3592.8	19.6	99.0	2305.0	2192.8	26.3	16.8	2300.4	1947.8	13.3	11.6	26
27	2340.7	4763.7	4.3	46.0	2324.4	3436.2	16.3	95.0	2305.3	2205.6	23.4	16.8	2301.2	1990.2	33.2	11.9	27
28	2339.7	4675.1	2.2	46.0	2322.3	3286.3	18.5	94.0	2305.5	2217.3	22.9	16.8	2301.7	2012.9	23.3	11.9	28
29	2338.7	4589.6	4.0	46.0	2320.2	3135.7	14.2	90.0	2305.2	2203.9	21.4	28.0	2301.9	2027.8	18.9	11.2	29
30	2337.8	4506.4	5.1	46.0	2319.5	3088.0	65.0	89.0	2304.1	2140.4	18.1	50.0	2302.2	2038.9	16.9	11.2	30
31	2336.8	4424.2	5.5	46.0					2302.9	2075.7	17.5	50.0	2302.5	2055.7	19.5	10.9	31
TOTAL			183.0	1,495.0			1,314.3	1,972.3			630.5	1,134.2			478.3	483.3	
Inf. Ac. Ft.		363.0				2,606.9				1,250.5				948.7		5,169.1	
Outf. Ac. Ft.		2,965.2 + (85.2)				3,911.9 + (31.1)				2,249.6 + (13.2)				958.6 + (10.1)		10,085.3 + (139.6)	
Maximum Mean Daily Inflow		8.4				337.6				33.5				33.2		337.6	
Minimum Mean Daily Inflow		2.2				4.1				12.9				11.8		2.2	
Storage Change		– 2,587.5				– 1,335.2				– 1,012.3				– 19.9		– 5,056.1	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2,362.4	feet	on	10/1/67	Storage	7,018.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	2,298.5	feet	on	1/4/68	Storage	1,851.6	Acre Feet	H. E. WILSON	Dam Tender	Gage Hts. copied	GF JSL	
Max. Peak Inf.	893.1	C.F.S. from	12:00 NOON	on 11/19/67	to	2:00 P.M.	on 11/19/67	E. K. DE VORE	Hydrographer	Storage applied	GF JSL	
Max. Peak Outf.	500.0	C.F.S. from	VARIOUS TIMES		to	NOVEMBER	on 1967		Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

7601386-689 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of COGSWELL DAM Dam

In San Gabriel Canyon – West Fork for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Stevens A-35

Drainage Area 39.2 Square Miles. Capacity of Reservoir 9,999.1 Ac. Ft. at Spillway Elev. 2,385.0 Ft. as of June 19 66 Gage Heights Read Daily

Day	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	Day
1	2302.7	2069.4	17.9	10.9	2311.9	2592.2	15.0	11.6	2327.20	3639.5	27.1	1.4	2335.0	4272.9	9.4	1.2	1
2	2302.9	2079.9	16.4	10.9	2312.0	2599.0	15.3	11.6	2327.7	3682.8	23.0	1.2	2335.2	4286.4	9.1	1.2	2
3	2303.1	2091.1	16.7	10.9	2312.1	2604.6	14.8	11.6	2328.2	3715.7	17.6	0.9	2335.3	4298.2	7.7	1.2	3
4	2303.4	2102.4	16.8	10.9	2312.1	2608.9	14.2	11.6	2328.5	3745.8	16.7	0.9	2335.5	4311.8	8.6	1.2	4
5	2303.6	2113.1	16.4	10.9	2312.2	2610.8	13.0	11.6	2328.9	3772.8	15.1	0.9	2335.7	4324.5	8.1	1.2	5
6	2303.7	2121.6	15.4	10.9	2312.2	2615.1	14.0	11.6	2329.2	3798.5	14.9	0.9	2335.8	4338.0	8.5	1.0	6
7	2303.9	2129.6	15.1	10.9	2312.6	2640.0	24.7	12.2	2329.5	3823.8	13.7	0.9	2336.0	4352.4	9.0	0.9	7
8	2304.0	2137.2	15.0	10.9	2316.6	2890.7	140.1	13.7	2329.80	3847.4	13.4	0.9	2336.1	4366.1	8.5	0.9	8
9	2304.4	2157.9	21.6	11.2	2317.6	2958.8	47.2	12.6	2330.2	3876.0	16.0	0.9	2336.3	4382.3	10.0	0.9	9
10	2305.1	2195.1	29.9	11.2	2318.3	3005.0	36.3	12.6	2330.4	3894.4	11.7	0.9	2336.5	4396.0	8.3	0.9	10
11	2305.5	2220.6	24.3	11.3	2318.8	3040.1	30.3	12.2	2330.7	3916.0	12.5	0.9	2336.7	4409.7	8.2	0.9	11
12	2305.9	2241.7	21.8	11.2	2319.2	3069.5	27.1	11.9	2331.0	3937.6	12.4	0.9	2336.8	4423.4	8.2	0.9	12
13	2306.6	2279.5	30.2	11.2	2319.7	3101.8	28.1	11.9	2331.2	3957.8	11.5	0.9	2337.0	4439.7	9.7	1.0	13
14	2307.3	2321.6	32.4	11.2	2320.1	3127.3	25.3	12.2	2331.5	3978.0	11.6	0.9	2337.2	4454.4	9.0	1.0	14
15	2307.9	2353.8	27.6	11.2	2320.4	3150.3	22.6	10.8	2331.7	3997.4	11.5	0.9	2337.3	4467.4	8.5	1.0	15
16	2308.3	2378.8	24.0	11.2	2320.8	3174.6	23.7	11.2	2331.9	4016.0	10.8	0.9	2337.5	4478.7	7.9	1.0	16
17	2308.7	2403.9	23.9	11.2	2321.0	3194.9	21.7	11.2	2332.2	4037.3	12.1	0.8	2337.6	4489.9	7.6	0.9	17
18	2309.2	2429.2	24.1	11.2	2321.4	3218.9	21.1	8.6	2332.5	4057.8	11.7	0.8	2337.7	4502.0	7.9	0.9	18
19	2309.5	2451.2	21.4	10.2	2321.9	3254.9	19.6	0.9	2332.7	4076.6	10.9	0.8	2337.8	4511.6	6.7	0.9	19
20	2309.9	2472.0	22.2	11.6	2322.4	3287.7	17.9	0.9	2332.9	4097.0	11.7	0.8	2338.0	4522.0	6.9	0.9	20
21	2310.2	2493.1	23.4	11.6	2322.8	3319.8	17.6	0.9	2333.2	4116.0	11.0	0.9	2338.1	4531.6	6.4	0.9	21
22	2310.5	2507.6	19.2	11.6	2323.2	3350.7	17.2	1.0	2333.4	4133.4	10.3	0.9	2338.2	4543.9	7.7	0.9	22
23	2310.7	2523.3	19.8	11.6	2323.6	3380.3	16.5	1.0	2333.6	4150.8	10.4	0.8	2338.3	4549.2	7.1	3.8	23
24	2311.0	2536.6	18.6	11.6	2324.0	3409.2	16.0	1.0	2333.8	4168.2	12.3	2.8	2338.3	4552.7	7.1	4.6	24
25	2311.1	2547.0	17.1	11.6	2324.4	3436.9	15.4	0.9	2334.0	4184.8	10.5	1.3	2338.3	4554.5	6.2	4.6	25
26	2311.3	2558.0	17.4	11.6	2324.8	3464.6	15.4	1.0	2334.2	4200.7	10.1	1.3	2338.4	4557.1	6.6	4.4	26
27	2311.5	2569.0	17.4	11.6	2325.2	3492.5	15.7	1.0	2334.4	4216.6	9.9	1.3	2338.4	4558.9	6.1	4.2	27
28	2311.6	2578.2	16.5	11.6	2325.5	3519.1	15.0	0.9	2334.5	4230.9	9.3	1.3	2338.4	4559.7	5.9	4.2	28
29	2311.8	2586.1	16.0	11.6	2325.8	3541.2	12.8	1.0	2334.7	4245.1	10.0	2.0	2338.4	4563.3	6.7	4.2	29
30					2326.2	3565.1	13.5	0.9	2334.9	4258.5	8.8	1.2	2338.4	4565.0	5.9	4.2	30
31					2326.5	3588.3	13.1	1.0					2338.5	4566.8	5.6	4.2	31
TOTAL			598.8	325.5			741.7	223.1			390.4	32.2			240.9	60.2	
Inf. Ac. Ft.		1,187.7				1,471.2				774.3				477.8		9,080.1	
Outf. Ac. Ft.		645.6 + (11.7)				442.5 + (26.5)				63.8 + (40.2)				119.4 + (50.1)		11,356.5 + (268.1)	
Maximum Mean Daily Inflow		32.4				140.1				27.1				10.0		337.6	
Minimum Mean Daily Inflow		15.0				12.8				6.8				5.6		2.2	
Storage Change	+ 530.4				+ 1,002.1				+ 670.2				+ 308.2			– 2,545.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2,362.4	feet	on	10/1/67	Storage	7,018.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	2,298.5	feet	on	1/4/68	Storage	1,851.6	Acre Feet	H. E. WILSON	Dam Tender	Gage Hts. copied	GF JSL	
Max. Peak Inf.	893.1	C.F.S. from	12:00 NOON	on 11/19/67	to	2:00 P.M.	on 11/19/67	E. K. DE VORE	Hydrographer	Storage applied	GF JSL	
Max. Peak Outf.	500.0	C.F.S. from	VARIOUS TIMES		to	NOVEMBER	on 1967		Hydrographer	Inf. & Outf. comp.	GF JFL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of COGSWELL Dam

In San Gabriel Canyon – West Fork for the Year Ending September 30, 19 68

Drainage Area 39.2 Square Miles. Capacity of Reservoir 9,999.1 Ac. Ft. at Spillway Elev. 2,385.0 Ft. as of June 19 66

Continuous Water Stage Recorder Stevens A-35

Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow
1	2,338.5	4,566.8	5.1	4.2	2,337.2	4,452.7	3.6	5.6
2	2,338.5	4,566.8	5.7	4.4	2,337.1	4,444.0	2.4	5.6
3	2,338.5	4,565.9	4.9	4.4	2,336.9	4,433.6	1.4	5.6
4	2,338.4	4,565.0	4.7	4.4	2,336.8	4,425.9	2.9	5.6
5	2,338.4	4,564.1	4.6	4.4	2,336.7	4,417.4	2.3	5.6
6	2,338.4	4,564.1	5.3	4.4	2,336.6	4,408.0	1.4	5.6
7	2,338.4	4,564.1	5.0	4.4	2,336.5	4,396.9	0.9	5.6
8	2,338.5	4,565.9	5.8	4.4	2,336.4	4,388.3	2.3	5.8
9	2,338.5	4,567.7	5.8	4.4	2,336.3	4,380.6	3.5	5.8
10	2,338.5	4,567.7	5.0	4.4	2,336.2	4,370.4	2.0	5.8
11	2,338.5	4,568.5	5.9	4.4	2,336.1	4,361.8	2.8	5.8
12	2,338.5	4,569.4	5.7	4.4	2,336.0	4,350.7	1.4	5.8
13	2,338.5	4,568.5	5.0	4.4	2,335.8	4,340.5	1.8	5.8
14	2,338.5	4,565.9	4.1	4.6	2,335.7	4,331.2	2.3	5.8
15	2,338.4	4,560.6	3.9	5.6	2,335.6	4,321.9	1.7	5.4
16	2,338.3	4,555.4	4.0	5.6	2,335.5	4,312.6	2.1	5.8
17	2,338.3	4,550.1	4.0	5.6	2,335.4	4,302.5	1.7	5.8
18	2,338.2	4,544.8	3.8	5.6	2,335.3	4,292.3	1.8	5.8
19	2,338.1	4,538.7	3.4	5.6	2,335.1	4,280.5	1.0	5.8
20	2,338.1	4,532.5	3.6	5.6	2,335.0	4,270.3	1.8	5.8
21	2,338.0	4,525.5	3.1	5.6	2,334.9	4,259.4	1.3	5.8
22	2,337.9	4,518.5	3.1	5.6	2,334.7	4,246.8	0.6	5.8
23	2,337.8	4,511.6	3.2	5.6	2,334.6	4,235.9	1.5	5.8
24	2,337.8	4,506.4	3.8	5.6	2,334.5	4,225.0	1.4	5.8
25	2,337.7	4,498.6	2.5	5.6	2,334.4	4,215.0	1.8	5.8
26	2,337.6	4,491.6	3.0	5.6	2,334.2	4,204.1	1.4	5.8
27	2,337.5	4,483.0	2.1	5.6	2,334.1	4,192.3	0.9	5.8
28	2,337.4	4,474.3	2.1	5.6	2,334.0	4,182.3	1.4	5.8
29	2,337.3	4,467.4	3.0	5.6	2,333.8	4,171.5	0.9	5.8
30	2,337.2	4,458.7	2.1	5.6	2,333.7	4,160.8	1.0	5.8
31					2,333.6	4,150.0	1.0	5.8
TOTAL			124.6	151.2			55.9	178.0
Inf. Ac. Ft.		247.1				110.9		
Outf. Ac. Ft.		299.9 + (55.3)				353.0 + (66.6)		
Maximum Mean Daily Inflow		5.9				3.6		
Minimum Mean Daily Inflow		2.1				0.6		
Storage Change	– 108.0					– 308.7		

Day	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	2,333.5	4,140.1	1.1	5.8	2,329.1	3,787.7	1.0	5.8	1
2	2,333.4	4,128.5	1.1	5.8	2,329.0	3,776.0	1.0	5.8	2
3	2,333.2	4,115.3	1.1	5.8	2,328.8	3,764.4	1.0	5.8	3
4	2,333.1	4,105.3	1.1	5.8	2,328.7	3,752.8	1.0	5.8	4
5	2,332.9	4,091.3	1.1	5.8	2,328.6	3,746.6	1.0	5.8	5
6	2,332.8	4,080.7	1.1	5.8	2,328.5	3,742.8	1.0	5.8	6
7	2,332.7	4,070.9	1.1	5.8	2,328.4	3,730.4	1.0	5.8	7
8	2,332.5	4,060.2	1.1	5.8	2,328.2	3,719.6	1.0	5.8	8
9	2,332.4	4,048.8	1.1	5.8	2,328.1	3,708.0	1.0	6.0	9
10	2,332.2	4,037.4	1.1	5.8	2,327.9	3,695.7	1.0	6.0	10
11	2,332.1	4,024.2	1.1	5.8	2,327.8	3,683.6	1.0	6.0	11
12	2,331.9	4,012.8	1.1	5.8	2,327.6	3,672.2	1.0	6.0	12
13	2,331.8	4,002.3	1.1	5.4	2,327.5	3,660.8	1.0	6.0	13
14	2,331.7	3,991.0	1.1	5.8	2,327.3	3,649.4	1.0	6.0	14
15	2,331.5	3,979.7	1.1	5.8	2,327.2	3,638.0	1.0	6.0	15
16	2,331.4	3,968.4	1.1	5.8	2,327.0	3,626.6	1.0	5.8	16
17	2,331.3	3,957.8	1.1	5.8	2,326.9	3,616.0	1.0	5.8	17
18	2,331.1	3,946.5	1.1	5.8	2,326.7	3,604.8	1.0	5.8	18
19	2,331.0	3,936.0	1.1	6.0	2,326.6	3,592.8	1.0	5.8	19
20	2,330.9	3,924.8	1.2	6.0	2,326.4	3,581.6	1.0	5.8	20
21	2,330.7	3,913.6	1.2	6.0	2,326.3	3,571.1	1.0	5.8	21
22	2,330.6	3,902.4	1.2	6.0	2,326.2	3,560.6	1.0	5.6	22
23	2,330.4	3,890.4	1.2	6.0	2,326.0	3,548.6	1.0	5.6	23
24	2,330.3	3,879.2	1.2	6.0	2,325.8	3,537.6	1.1	5.6	24
25	2,330.1	3,867.3	1.2	6.0	2,325.7	3,525.8	1.1	5.3	25
26	2,330.0	3,856.1	1.2	6.0	2,325.5	3,514.7	1.1	5.3	26
27	2,329.8	3,844.3	1.2	6.0	2,325.4	3,502.9	1.1	5.3	27
28	2,329.7	3,833.3	1.2	6.0	2,325.2	3,491.8	1.1	5.6	28
29	2,329.6	3,822.3	1.2	6.0	2,325.1	3,487.4	1.1	5.6	29
30	2,329.4	3,810.5	1.2	6.0	2,324.9	3,468.3	1.1	5.6	30
31	2,329.3	3,799.5	1.2	6.0					31
TOTAL			35.3	182.0			30.7	172.9	
Inf. Ac. Ft.		70.0				61.0		9,569.1	
Outf. Ac. Ft.		360.9 + (59.6)				342.9 + (49.3)		12,713.3 + (498.9)	
Maximum Mean Daily Inflow		1.2				1.1		337.6	
Minimum Mean Daily Inflow		1.1				1.0		0.6	
Storage Change		– 350.5				– 331.1		– 3,643.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2,362.4	feet	on	10/1/67	Storage	7,018.4	Acre Feet			
Min. W. S. Elev.	2,298.5	feet	on	1/4/68	Storage	1,851.6	Acre Feet			
Max. Peak Inf.	893.1	C.F.S. from	12:00NOON	on	11/19/67	to	2:00 P.M.	on	11/19/67	
Max. Peak Outf.	500.0	C.F.S. from	VARIOUS TIMES			to	NOVEMBER	on	1967	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
H. E. WILSON	Dam Tender	Gage Hts. copied	GF JSL	
E. K. DEVORE	Hydrographer	Storage applied	GF JSL	
	Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.
{ INDICATES AVERAGE FOR PERIOD.

76D138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of COGSWELL Dam

In San Gabriel Canyon - West Fork for the Year Ending September 30, 19 69

Drainage Area 39.2 Square Miles. Capacity of Reservoir 9,999.1 / 9,338.8 Ac. Ft. at Spillway Elev. 2,385.0 Ft. as of June 1966 / January 19 69

Continuous Water Stage Recorder Stevens A-35

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow
1	2,324.76	3,458.10	1.8	5.8	2,314.20	2,735.4	1.5	3.8
2	2,324.63	3,448.6	1.8	5.8	2,314.13	2,731.0	1.9	3.8
3	2,324.48	3,437.7	1.8	6.0	2,314.04	2,725.2	1.4	3.8
4	2,324.37	3,429.7	1.8	6.0	2,313.95	2,719.6	1.1	3.7
5	2,324.24	3,420.2	1.8	6.0	2,313.88	2,715.2	1.9	3.7
6	2,324.12	3,411.4	1.8	6.0	2,313.82	2,711.4	2.2	3.7
7	2,323.98	3,401.2	1.8	6.0	2,313.74	2,706.4	1.7	3.7
8	2,323.84	3,391.2	1.8	5.8	2,313.64	2,700.1	1.1	3.7
9	2,323.70	3,381.1	1.8	5.3	2,313.57	2,695.7	1.8	3.5
10	2,323.58	3,372.4	1.8	5.8	2,313.50	2,691.3	1.8	3.5
11	2,323.48	3,365.2	1.8	5.8	2,313.43	2,686.9	1.4	3.1
12	2,323.29	3,351.5	1.8	5.8	2,313.37	2,683.1	0.9	2.5
13	2,323.15	3,341.4	1.9	5.8	2,313.33	2,680.6	1.4	2.3
14	2,323.02	3,332.0	1.9	5.8	2,313.29	2,678.1	0.9	2.2
15	2,322.90	3,323.5	1.9	12.0	2,313.24	2,673.0	0.1	1.7
16	2,322.60	3,302.0	1.9	18.5	2,313.35	2,681.9	5.2	1.6
17	2,322.14	3,269.2	1.9	27.0	2,313.37	2,683.1	2.5	1.5
18	2,321.43	3,219.0	1.9	36.0	2,313.38	2,683.8	2.0	1.5
19	2,320.50	3,153.8	1.9	41.0	2,313.38	2,683.8	1.9	1.5
20	2,319.41	3,078.5	1.9	41.0	2,313.39	2,684.4	2.1	1.4
21	2,318.32	3,004.4	1.9	41.0	2,313.40	2,685.0	1.6	1.0
22	2,317.22	2,930.9	1.9	44.0	2,313.41	2,685.6	1.5	0.9
23	2,315.86	2,841.8	1.9	31.0	2,313.43	2,686.9	1.9	0.9
24	2,314.89	2,779.3	1.9	4.0	2,313.44	2,687.5	1.3	0.9
25	2,314.81	2,774.2	1.9	4.0	2,313.47	2,689.4	2.5	0.9
26	2,314.72	2,768.5	1.9	3.9	2,313.47	2,689.4	2.0	1.1
27	2,314.63	2,762.8	1.9	3.9	2,313.47	2,689.4	1.7	1.2
28	2,314.53	2,756.4	1.9	3.9	2,313.48	2,690.0	1.5	1.0
29	2,314.44	2,750.7	1.9	3.9	2,313.47	2,689.4	1.2	1.0
30	2,314.35	2,745.0	1.9	3.8	2,313.47	2,689.4	1.3	1.0
31	2,314.28	2,740.5	1.9	3.8				
TOTAL			57.7	404.9			51.3	66.1
Inf. Ac. Ft.		114.6				101.8		
Outf. Ac. Ft.		803.1 + (39.3)				131.1 + (21.8)		
Maximum Mean Daily Inflow		11.4				5.1		
Minimum Mean Daily Inflow		– 26.6				1.1		
Storage Change	– 727.8					– 51.0		

Day	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	2,313.48	2,690.0	1.3	1.0	2,315.37	2,810.2	4.1	0.6	1
2	2,313.50	2,691.3	2.0	0.9	2,315.43	2,814.07	2.8	0.6	2
3	2,313.51	2,691.9	1.4	0.6	2,315.45	2,315.4	1.6	0.6	3
4	2,313.53	2,693.2	1.7	0.6	2,315.58	2,823.8	5.2	0.6	4
5	2,313.57	2,695.7	2.3	0.6	2,315.68	2,830.2	4.2	0.6	5
6	2,313.61	2,698.2	2.1	0.6	2,315.74	2,834.1	2.9	0.6	6
7	2,313.64	2,700.1	1.9	0.6	2,315.82	2,839.3	3.6	0.7	7
8	2,313.67	2,702.0	1.9	0.6	2,315.92	2,845.7	4.0	0.7	8
9	2,313.70	2,703.9	1.9	0.6	2,315.98	2,849.6	2.8	0.7	9
10	2,313.74	2,706.4	2.3	0.6	2,316.09	2,856.8	4.6	0.8	10
11	2,313.77	2,708.2	1.6	0.7	2,316.17	2,862.0	3.6	0.8	11
12	2,313.84	2,712.6	3.2	0.7	2,316.25	2,867.2	3.6	0.7	12
13	2,313.87	2,714.5	2.1	0.7	2,316.29	2,869.9	2.1	0.8	13
14	2,313.86	2,713.9	0.8	0.7	2,316.48	2,882.3	7.9	1.3	14
15	2,313.95	2,719.6	3.7	0.7	2,317.25	2,932.9	26.4	0.7	15
16	2,314.01	2,723.3	2.6	0.7	2,317.46	2,946.9	7.9	0.7	16
17	2,314.08	2,727.8	3.0	0.6	2,317.62	2,957.5	6.2	0.7	17
18	2,314.12	2,730.3	2.2	0.6	2,317.75	2,966.2	5.5	0.8	18
19	2,314.18	2,734.1	2.7	0.6	2,318.02	2,984.1	10.9	1.8	19
20	2,314.23	2,737.3	2.3	0.6	2,319.78	3,103.9	69.8	9.4	20
21	2,314.28	2,740.5	2.5	0.6	2,330.96	3,932.8	1,339.9	922.0	21
22	2,314.35	2,745.0	2.8	0.6	2,356.78	6,383.5	1,866.5	631.0	22
23	2,314.39	2,747.5	2.2	0.6	2,358.78	6,604.9	1,132.0	1,020.0	23
24	2,314.44	2,750.7	2.2	0.6	2,346.78	5,340.8	670.7	1,308.0	24
25	2,314.49	2,753.9	2.8	0.9	2,353.45	5,423.5*	5,654.8	5,310.0	25
26	2,314.75	2,770.4	9.1	0.8	2,314.80	2,483.8	3,717.9	5,200.0	26
27	2,314.95	2,783.1	7.4	0.7	2,314.72	2,479.7	1,388.1	1,390.0	27
28	2,315.03	2,788.2	3.4	0.6	2,328.50	3,312.7	586.1	166.0	28
29	2,315.11	2,793.4	3.2	0.6	2,334.15	3,716.6	401.8	198.0	29
30	2,315.19	2,798.6	3.5	0.6	2,336.82	3,924.9	315.2	210.0	30
31	2,315.27	2,803.7	3.5	0.6	2,337.90	4,011.8	254.0	210.0	31
TOTAL			86.2	20.5			17,506.8	16,589.0	
Inf. Ac. Ft.		171.0				34,724.4		35,111.8	
Outf. Ac. Ft.		40.6 + (16.0)				32,904.1 + (10.8)		33,878.9 + (87.9)	
Maximum Mean Daily Inflow		9.1				5,654.8		5,654.8	
Minimum Mean Daily Inflow		0.7				1.5		0.1	
Storage Change		+ 114.3				+ 1,208.1		+ 543.5 *	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2,389.3	feet	on	2/25/69	Storage	10,645.0	Acre Feet			
Min. W. S. Elev.	2,313.2	feet	on	11/15/68	Storage	2,675.0	Acre Feet			
Max. Peak Inf.	15,200.	C.F.S. from	4:00 A.M.	on	2/25/69	to	6:00 A.M.	on	2/25/69	
Max. Peak Outf.	10,600.	C.F.S. from	6:00 A.M.	on	2/25/69	to	7:00 A.M.	on	2/25/69	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
H. E. WILSON	Dam Tender	Gage Hts. copied	RAP-JSL	
E. K. DE VORE	Hydrographer	Storage applied	RAP-JSL	
	Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS ( ) PERCOLATION AND OTHER LOSSES.
* 601.2 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XIV ON 1/25/69. SURVEY OF JANUARY 1969.
{ INDICATES AVERAGE FOR PERIOD.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of COGSWELL Dam

In San Gabriel Canyon – West Fork for the Year Ending September 30, 1969

Continuous Water Stage Recorder A-35

Drainage Area 39.2 Square Miles. Capacity of Reservoir 9,338.8 Ac. Ft. at Spillway Elev. 2,385.0 Ft. as of January 1969 Gage Heights Read Daily

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	2,338.85	4,089.5	205.4	166.0	2,320.43	2,793.6	696.2	497.0	2,381.40	3,818.3	105.5	94.0	2,386.30	3,530.8	50.2	10.5	1
2	2,340.78	4,250.6	179.6	98.0	2,331.96	3,554.6	501.2	117.0	2,381.57	3,842.5	107.0	94.0	2,386.87	3,615.4	54.3	10.5	2
3	2,343.43	4,478.3	153.2	38.0	2,339.59	4,150.3	461.0	160.0	2,382.30	3,947.0	127.7	74.0	2,387.39	3,693.1	50.5	10.5	3
4	2,344.15	4,541.4	126.9	95.0	2,345.66	4,675.7	394.1	129.0	2,383.70	3,149.2	107.5	4.4	2,387.92	3,772.4	50.6	10.5	4
5	2,343.67	4,493.3	212.8	234.0	2,351.39	5,215.2	341.6	69.0	2,385.39	3,396.3	130.7	4.9	2,388.46	3,853.8	52.3	10.5	5
6	2,342.32	4,382.0	1,060.9	1,120.0	2,355.18	5,602.4	317.8	122.0	2,385.60	3,427.3	108.4	92.9	2,386.79	3,903.6	51.4	26.0	6
7	2,327.98	3,277.2	593.1	1,150.0	2,355.38	5,623.5	315.3	304.0	2,385.60	3,427.3	99.5	99.9	2,389.72	3,893.1	48.1	53.0	7
8	2,323.62	2,990.9	395.6	540.0	2,355.20	5,604.5	294.8	304.0	2,385.60	3,427.3	94.1	93.9	2,388.31	3,831.2	43.4	74.0	8
9	2,319.20	2,721.1	347.2	483.0	2,354.76	5,558.6	277.0	300.0	2,385.60	3,427.3	90.9	90.0	2,389.12	3,882.5	46.8	60.0	9
10	2,320.50	2,797.3	265.7	228.0	2,354.21	5,501.5	271.6	300.0	2,385.60	3,427.3	90.5	90.0	2,388.12	3,802.5	43.6	47.0	10
11	2,319.97	2,766.0	212.1	228.0	2,353.18	5,395.9	243.1	296.0	2,385.60	3,427.3	88.5	88.0	2,389.22	3,917.6	44.6	36.0	11
12	2,319.38	2,731.6	207.8	228.0	2,351.86	5,262.8	225.2	292.0	2,385.59	3,425.8	86.0	86.0	2,388.34	3,835.7	43.6	35.0	12
13	2,323.32	2,971.7	187.2	66.0	2,350.38	5,117.0	218.9	292.0	2,385.58	3,424.3	84.2	84.0	2,388.41	3,846.3	41.8	35.0	13
14	2,328.30	3,299.1	169.4	4.2	2,350.60	5,138.5	189.3	178.0	2,385.58	3,424.3	83.8	83.0	2,388.50	3,859.9	43.1	35.0	14
15	2,333.25	3,649.1	181.1	4.6	2,353.30	5,408.1	161.4	25.0	2,385.57	3,422.9	80.2	80.0	2,388.59	3,873.5	42.1	34.0	15
16	2,337.11	3,948.1	164.7	13.7	2,355.82	5,669.7	155.5	23.0	2,385.57	3,422.9	79.2	78.0	2,388.62	3,878.0	37.6	34.0	16
17	2,339.98	4,183.2	143.0	24.0	2,358.26	5,930.8	154.2	22.0	2,385.54	3,418.4	75.0	76.0	2,388.68	3,887.0	40.6	34.0	17
18	2,343.47	4,481.8	172.7	22.0	2,360.58	6,186.1	150.1	21.0	2,385.52	3,415.5	74.8	75.0	2,388.72	3,893.1	38.5	34.0	18
19	2,345.53	4,664.1	148.0	56.0	2,362.76	6,432.6	144.9	20.0	2,385.52	3,415.5	75.2	74.0	2,388.75	3,897.6	38.0	34.0	19
20	2,345.55	4,755.3	132.1	85.0	2,364.78	6,667.4	137.9	18.5	2,385.52	3,415.5	73.4	73.0	2,388.76	3,899.1	36.2	34.0	20
21	2,347.12	4,809.4	128.4	102.0	2,367.35	6,974.2	172.7	18.0	2,384.92	9,327.2	62.8	106.0	2,388.73	3,894.6	33.1	34.0	21
22	2,346.28	4,731.7	134.7	173.0	2,369.40	7,225.0	144.7	18.0	2,384.70	9,295.0	55.0	70.0	2,388.73	3,894.6	35.6	34.0	22
23	2,351.95	5,261.9	692.3	425.0	2,371.35	7,468.8	141.4	17.6	2,384.70	9,295.0	59.9	59.0	2,388.72	3,893.1	31.8	31.0	23
24	2,366.42	6,363.3	2,436.9	1,630.0	2,373.14	7,697.1	133.3	17.2	2,384.65	9,287.7	60.5	63.0	2,388.68	3,887.0	34.5	36.0	24
25	2,371.65	7,505.7	6,374.9	6,050.0	2,374.69	7,898.7	119.8	17.2	2,384.18	9,219.0	45.9	79.0	2,388.62	3,878.0	32.7	36.0	25
26	2,350.27	5,105.2	1,540.0	2,750.0	2,376.13	8,089.3	121.5	24.0	2,384.18	9,219.0	48.5	47.0	2,388.54	3,865.9	31.3	36.0	26
27	2,333.30	3,652.8	1,027.6	1,760.0	2,377.81	8,316.3	149.9	34.0	2,384.50	9,265.8	62.3	37.0	2,388.46	3,853.8	31.2	36.0	27
28	2,313.12	2,398.8	627.9	1,260.0	2,378.76	8,447.0	95.0	28.0	2,384.75	9,302.3	50.0	30.0	2,389.40	3,844.8	33.0	36.0	28
29					2,380.15	8,641.1	121.0	22.0	2,385.71	9,443.5	86.0	13.6	2,388.37	9,840.3	29.5	30.0	29
30					2,381.09	8,774.1	105.3	37.0	2,385.78	9,453.8	17.2	10.8	2,389.38	9,841.8	29.8	27.0	30
31					2,381.25	8,796.9	106.6	94.0					2,388.35	9,837.2	26.0	27.0	31
TOTAL			12,222.1	13,030.50			7,062.4	3,816.5			2410.2	2046.7			1,252.6	1,020.5	
Inf. Ac. Ft.		36,143.0				14,008.2				4,780.7				2,484.5		92,528.2	
Outf. Ac. Ft.		37,746.4 + (9.6)				7,569.9 + (40.1)				4,059.5 + (64.2)				2,024.1 + (76.9)		85,278.8 + (278.7)	
Maximum Mean Daily Inflow		6,374.9				696.2				130.6				54.2		6,374.9	
Minimum Mean Daily Inflow		126.8				95.0				17.2				25.9		0.1	
Storage Change		– 1,613.0				+ 6,398.1				+ 656.8				+ 383.4		+ 6,368.9 *	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2,389.3	feet	on	2/25/69	Storage	10,645.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	2,313.2	feet	on	11/15/68	Storage	2,675.0	Acre Feet	H. E. WILSON	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	15,200.	C. F. S. from	4:00 A.M.	on 2/25/69	to	6:00 A.M.	on 2/25/69	E. K. DE VORE	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Outf.	10,600.	C. F. S. from	5:00 A.M.	on 2/25/69	to	7:00 A.M.	on 2/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS ( ) PERCOLATION AND OTHER LOSSES
* 601.2 ACRE-FOOT LOSS DUE TO SILTATION.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of COGSWELL Dam

In San Gabriel Canyon - West Fork for the Year Ending September 30, 1969

Continuous Water Stage Recorder Stevens A-35

Drainage Area 39.2 Square Miles. Capacity of Reservoir 9,338.8 Ac. Ft. at Spillway Elev. 2,385.0 Ft. as of January 1969 Gage Heights Read Daily

Day	JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	2,388.34	9,835.7	27.8	27.0	2,388.41	9,846.3	18.5	19.9	2,384.84	9,315.5	8.0	31.0	2,377.00	8,206.1	6.0	21.0	1
2	2,388.32	9,832.7	25.9	27.0	2,389.37	9,840.3	20.5	21.0	2,384.52	9,268.7	9.8	31.0	2,376.81	8,180.6	8.3	19.2	2
3	2,388.30	9,829.7	27.1	27.0	2,388.34	9,835.7	14.9	15.0	2,384.17	9,217.5	7.7	31.0	2,376.59	8,151.0	9.1	21.0	3
4	2,388.27	9,825.2	26.1	27.0	2,388.38	9,841.8	12.1	7.2	2,383.80	9,163.7	6.66	31.0	2,376.36	8,120.2	7.4	21.0	4
5	2,388.30	9,829.7	25.7	22.0	2,388.48	9,856.9	16.4	6.9	2,383.43	9,110.0	6.7	31.0	2,376.12	8,088.0	7.3	21.0	5
6	2,388.35	9,837.2	25.1	20.0	2,388.56	9,869.9	14.6	6.9	2,383.17	9,072.3	6.3	23.0	2,375.90	8,058.6	8.0	21.0	6
7	2,388.40	9,844.8	25.1	19.9	2,388.65	9,882.5	15.3	6.9	2,382.95	9,040.5	7.2	21.0	2,375.66	8,026.8	8.6	21.0	7
8	2,388.48	9,856.9	26.3	19.4	2,388.71	9,891.6	15.5	9.2	2,382.72	9,007.4	6.7	21.0	2,375.45	7,999.0	6.6	18.8	8
9	2,388.57	9,870.4	26.3	18.5	2,388.68	9,887.0	14.0	14.4	2,382.50	3,975.8	6.9	21.0	2,375.24	7,971.1	7.7	19.9	9
10	2,388.63	9,879.5	23.0	18.0	2,388.70	9,890.0	12.8	9.4	2,382.28	4,944.1	7.1	21.0	2,374.99	7,938.0	5.2	19.9	10
11	2,388.64	9,881.0	31.4	30.0	2,388.79	9,902.1	14.6	6.7	2,382.05	3,911.1	6.6	21.0	2,374.75	7,906.6	6.0	19.9	11
12	2,388.60	9,875.0	28.4	29.0	2,388.88	9,917.2	16.2	6.7	2,381.85	3,882.5	5.8	21.0	2,374.51	7,875.2	5.8	19.9	12
13	2,388.64	9,881.0	28.1	24.0	2,388.97	9,930.8	15.1	6.7	2,381.60	3,846.8	6.3	24.0	2,374.28	7,845.1	6.8	19.9	13
14	2,388.60	9,875.0	27.2	29.0	2,389.04	9,941.4	14.0	6.7	2,381.37	3,814.0	9.6	24.0	2,374.05	7,814.9	6.4	19.9	14
15	2,388.54	9,865.9	24.5	28.0	2,389.12	9,953.6	13.3	5.1	2,381.12	3,778.4	8.4	24.0	2,373.84	7,787.7	7.6	20.0	15
16	2,388.50	9,859.9	23.9	26.0	2,389.20	9,965.8	12.9	4.7	2,380.88	3,744.3	9.0	24.0	2,373.65	7,763.1	8.4	19.4	16
17	2,388.50	9,859.9	25.0	25.0	2,389.22	9,968.8	11.0	7.7	2,380.62	3,707.5	7.5	24.0	2,373.41	7,732.0	6.7	21.0	17
18	2,388.48	9,856.9	23.7	24.0	2,389.04	9,941.4	14.1	26.0	2,380.36	3,670.8	7.7	24.0	2,373.16	7,699.7	6.2	21.0	18
19	2,388.44	9,850.8	23.5	24.0	2,388.74	9,896.1	13.0	34.0	2,380.15	3,641.1	8.1	21.0	2,372.92	7,668.7	6.7	21.0	19
20	2,388.45	9,852.3	20.9	18.7	2,388.46	9,853.8	14.8	34.0	2,379.89	3,604.5	7.1	23.0	2,372.68	7,633.0	6.9	21.0	20
21	2,388.50	9,859.9	22.5	17.6	2,388.18	9,811.6	14.9	34.0	2,379.62	3,565.8	6.3	23.0	2,372.45	7,603.6	7.4	21.0	21
22	2,388.55	9,867.4	22.3	17.2	2,387.92	9,772.4	12.1	30.0	2,379.35	3,529.0	6.6	23.0	2,372.21	7,577.9	7.0	21.0	22
23	2,388.60	9,875.0	22.0	16.8	2,387.62	9,727.5	12.2	33.0	2,379.11	3,495.5	8.6	23.0	2,371.98	7,543.5	6.2	19.4	23
24	2,388.64	9,881.0	20.3	16.0	2,387.30	9,679.6	10.9	33.0	2,378.86	3,460.8	8.1	23.0	2,371.76	7,520.6	8.7	21.0	24
25	2,388.67	9,885.5	21.4	17.8	2,387.00	9,634.7	12.5	33.0	2,378.60	3,424.9	7.1	23.0	2,371.52	7,490.3	7.4	21.0	25
26	2,388.65	9,882.5	21.7	22.0	2,386.69	9,588.7	12.3	33.0	2,378.39	3,395.0	7.7	20.0	2,371.29	7,461.2	8.0	21.0	26
27	2,388.58	9,871.9	17.7	21.0	2,386.39	9,544.1	11.9	33.0	2,378.16	3,364.5	7.1	21.0	2,371.03	7,428.3	5.9	21.0	27
28	2,388.55	9,867.4	19.1	20.0	2,385.99	9,484.7	4.6	33.0	2,377.92	3,331.3	6.5	21.0	2,370.79	7,398.2	6.3	20.0	28
29	2,388.52	9,862.9	19.6	20.0	2,385.82	9,459.7	19.2	30.0	2,377.70	3,301.4	9.1	21.0	2,370.45	7,355.7	0.1	20.0	29
30	2,388.46	9,853.8	17.6	19.9	2,385.50	9,412.5	11.0	33.0	2,377.48	3,271.4	7.7	21.0	2,370.31	7,338.1	11.7	19.1	30
31					2,385.18	9,365.4	9.2	31.0	2,377.25	3,240.1	7.3	21.0					31
TOTAL			718.9	671.8			424.7	611.1			236.3	732.0			207.2	611.3	
Inf. Ac. Ft.		1,426.0				842.5				468.8				411.0		95,676.5	
Outf. Ac. Ft.		1,332.4 + (76.9)				1,212.0 + (118.8)				1,451.9 + (142.1)				1,212.4 + (100.5)		90,487.5 + (717.0)	
Maximum Mean Daily Inflow		31.3				20.4				9.7				11.7		6,374.9	
Minimum Mean Daily Inflow		17.5				4.6				6.2				0.1		0.1	
Storage Change		+ 18.5				– 488.4				– 1,125.2				– 901.9		+ 3,869.8*	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2,389.3	feet	on	2/25/69	Storage	10,645.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	2,313.2	feet	on	11/15/68	Storage	2,675.0	Acre Feet	H. E. WILSON	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	15,200.	C. F. S. from	4:00 A.M.	on 2/25/69	to	6:00 A.M.	on 2/25/69	E. K. DE VORE	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Outf.	10,600.	C. F. S. from	6:00 A.M.	on 2/25/69	to	7:00 A.M.	on 2/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS ( ) PERCOLATION AND OTHER LOSSES.
* 601.2 ACRE-FOOT LOSS DUE TO SILTATION.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam

In San Gabriel Canyon for the Year Ending September 30, 19 68

Drainage Area 202.7 Square Miles. Capacity of Reservoir 42,075 / 40,697 Ac. Ft. at Spillway Elev. 1,453.0 Ft. as of April 1966 / August 1967

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	1,339.65	4,408	116.5	79.5	1,334.14	3,064(1)	91.3	47.4	1,365.27	7,632	236.1	260.3	1,357.25	6,084	142.3	135.4	1
2	1,340.11	4,473	114.0	79.7	1,334.89	3,140	90.4	51.2	1,364.89	7,550	220.0	260.0	1,357.27	6,087	137.4	135.4	2
3	1,340.57	4,538	114.0	80.1	1,335.58	3,212	88.2	51.2	1,364.29	7,422	197.0	260.0	1,357.31	6,095	142.6	138.4	3
4	1,341.00	4,599	112.5	80.4	1,335.76	3,231	61.4	51.2	1,363.61	7,281	178.0	248.4	1,357.50	6,128	127.3	109.3	4
5	1,341.43	4,662	114.3	80.8	1,335.91	3,246	59.2	51.2	1,362.78	7,113	180.5	264.8	1,357.67	6,159	96.6	80.4	5
6	1,341.82	4,719	111.5	80.9	1,336.07	3,263	60.5	51.2	1,361.78	6,916	166.4	264.7	1,357.80	6,182	92.9	80.4	6
7	1,342.19	4,773	110.1	80.9	1,336.20	3,276	58.3	51.2	1,360.23	6,624	114.2	261.5	1,357.93	6,205	93.1	80.4	7
8	1,342.54	4,825	109.3	81.1	1,336.34	3,291	59.5	51.2	1,358.55	6,316	107.1	261.3	1,358.02	6,221	89.0	80.4	8
9	1,342.42	4,807	116.6	124.0	1,336.47	3,305	59.0	51.3	1,357.27	6,088	144.8	259.3	1,358.10	6,235	88.2	80.4	9
10	1,341.94	4,736	118.9	148.2	1,336.60	3,318	58.9	51.4	1,355.98	5,861	141.0	254.1	1,358.23	6,259	92.5	80.4	10
11	1,341.44	4,663	107.5	142.6	1,336.71	3,330	58.2	51.4	1,354.64	5,629	138.3	254.0	1,358.30	6,271	86.9	80.4	11
12	1,340.94	4,590	107.9	142.9	1,336.81	3,340	57.3	51.4	1,353.62	5,457	134.2	220.1	1,358.39	6,286	88.8	80.4	12
13	1,340.35	4,507	102.9	143.1	1,336.90	3,350	57.3	51.4	1,352.07	5,204	130.8	256.8	1,358.44	6,297	86.6	80.4	13
14	1,339.80	4,429	102.3	139.8	1,337.00	3,360	57.1	51.5	1,351.40	5,101	115.7	166.9	1,358.48	6,304	84.9	80.4	14
15	1,339.19	4,344	101.3	141.8	1,337.10	3,371	57.7	51.6	1,351.59	5,130	95.9	80.6	1,358.94	6,387	81.5	39.2	15
16	1,338.62	4,265	104.0	141.8	1,337.20	3,382	57.2	51.2	1,351.72	5,150	91.0	80.6	1,359.41	6,472	81.7	38.0	16
17	1,338.03	4,183	102.4	141.7	1,337.32	3,394	56.7	50.4	1,351.86	5,172	91.9	80.7	1,359.85	6,553	79.3	38.0	17
18	1,337.43	4,102	101.1	140.6	1,337.45	3,308	57.4	50.4	1,352.70	5,306	148.6	80.9	1,360.32	6,640	82.9	38.0	18
19	1,336.81	4,019	101.5	141.4	1,348.44	4,689	697.4	51.6	1,353.49	5,435	146.4	80.9	1,360.44	6,663	82.0	69.8	19
20	1,336.19	3,937	100.2	140.3	1,352.93	5,343	391.5	61.7	1,353.93	5,509	118.4	81.0	1,360.43	6,661	80.7	80.6	20
21	1,335.59	3,859	101.7	140.3	1,358.61	6,327	592.3	96.2	1,354.24	5,561	108.3	81.1	1,360.42	6,659	80.6	80.6	21
22	1,335.00	3,782	102.8	140.6	1,363.64	7,287	584.0	99.6	1,354.52	5,609	105.8	81.1	1,360.42	6,659	77.3	73.9	22
23	1,334.40	3,705	100.5	138.1	1,366.16	7,826	374.6	102.1	1,354.87	5,669	111.8	81.1	1,360.46	6,666	75.3	70.4	23
24	1,333.77	3,625	97.0	136.3	1,367.37	8,100	241.4	102.1	1,355.24	5,732	114.0	81.2	1,360.51	6,676	76.2	70.4	24
25	1,333.77	3,625	101.2	100.4	1,367.15	8,049	219.1	243.6	1,355.62	5,798	114.7	80.6	1,360.57	6,687	76.9	70.4	25
26	1,334.11	3,668	103.9	181.2	1,366.56	7,916	213.1	278.9	1,356.03	5,869	116.4	80.1	1,361.67	6,706	79.8	70.4	26
27	1,334.41	3,706	100.9	80.8	1,366.10	7,813	198.3	243.5	1,356.43	5,939	116.0	80.1	1,361.33	6,830	133.2	70.4	27
28	1,334.71	3,745	100.9	80.8	1,365.66	7,717	202.2	250.2	1,356.80	6,004	113.2	80.1	1,361.68	6,897	105.0	70.4	28
29	1,335.01	3,783	100.7	80.9	1,365.10	7,595	188.6	249.7	1,357.01	6,041	117.8	98.7	1,361.91	6,941	93.4	70.4	29
30	1,333.03	3,533	88.0	212.8	1,365.50	7,682	293.9	250.0	1,357.10	6,057	144.1	135.4	1,362.07	6,972	86.7	70.7	30
31	1,333.30	3,566	100.0	82.1					1,357.18	6,072	143.2	135.4	1,362.30	7,018	94.1	70.8	31
TOTAL			3,267.4	3,610.9			5,342.0	2,952.5			4,203.2	4,991.8			2,917.3	2,416.9	
Inf. Ac. Ft.		6,480.8				10,595.7				8,336.9				5,786.5		31,199.9	
Outf. Ac. Ft.		7,162.1 + (89.5)				5,855.2 + (36.5)				9,901.0 + (46.0)				4,793.8 + (46.6)		27,713.1 + (218.6)	
Maximum Mean Daily Inflow		116.9				697.4				236.1				142.6		697.4	
Minimum Mean Daily Inflow		88.0				56.7				91.0				75.3		56.7	
Storage Change		− 771.0				+ 4,703.0				− 1,610.1				+ 946.0		(1) + 2,680.7	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,384.25	feet	on	3/11/68	Storage	12,477.7	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,304.92	feet	on	9/6/68	Storage	832.5	Acre Feet	O. R. WATKINS	Dam Tender	Gage Hts. copied	RAP JSL	
Max. Peak Inf.	1,616.7	C. F. S. from	10:00 A.M.	on	11/19/67	to	12:00 NOON on	11/19/67	E. K. DE VORE	Hydrographer	Storage applied	RAP JSL
Max. Peak Outf.	905.2	C. F. S. from	8:00 A.M.	on	5/2/68	to	12:00 NOON on	5/2/68		Hydrographer	Inf. & Outf. comp.	RAP JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

(1) 587 A.F. LOSS DUE TO SILTATION. CHANGE TO TABLE XXII INTERIM - 11/1, SURVEY OF AUGUST 1967.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam

In San Gabriel Canyon for the Year Ending September 30, 19 68

Drainage Area 202.7 Square Miles. Capacity of Reservoir 40,697 Ac. Ft. at Spillway Elev. 1,453.0 Ft. as of August 19 67

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	Day
1	1,362.46	7,049	87.5	70.8	1,377.60	10,657	119.0	70.1	1,377.18	10,547	136.8	70.1	1,372.20	9,275	80.9	662.1	1
2	1,362.61	7,079	86.5	70.8	1,377.96	10,751	119.4	70.1	1,377.62	10,662	129.4	70.1	1,368.32	8,322	83.0	561.7	2
3	1,362.77	7,111	87.5	70.8	1,378.28	10,836	115.6	70.2	1,377.90	10,735	108.8	70.1	1,365.64	7,712	81.8	387.8	3
4	1,362.92	7,141	86.8	70.8	1,378.57	10,912	111.6	70.4	1,378.13	10,795	102.5	70.1	1,362.86	7,128	79.1	372.2	4
5	1,363.06	7,168	85.9	70.8	1,378.84	10,984	107.8	70.4	1,378.34	10,852	100.0	70.1	1,359.91	6,564	80.2	363.6	5
6	1,363.19	7,195	85.2	70.8	1,379.17	11,072	114.8	70.5	1,378.55	10,907	99.9	70.1	1,356.98	6,036	79.5	344.1	6
7	1,363.30	7,218	83.0	70.8	1,379.67	11,206	138.4	70.8	1,378.73	10,955	96.5	70.1	1,357.03	6,045	76.1	70.5	7
8	1,363.42	7,242	83.3	70.8	1,382.31	11,930	436.5	70.9	1,378.91	11,002	98.9	70.1	1,357.08	6,054	75.8	70.5	8
9	1,363.82	7,324	112.6	70.8	1,383.20	12,179	198.2	70.9	1,379.04	11,037	91.5	70.1	1,357.11	6,059	74.7	70.5	9
10	1,364.52	7,471	145.6	70.8	1,383.89	12,375	171.2	71.0	1,379.18	11,075	92.2	70.1	1,357.13	6,063	73.5	70.5	10
11	1,365.03	7,580	126.0	70.8	1,383.90	12,378	158.9	154.9	1,379.31	11,109	89.3	70.1	1,357.17	6,070	74.8	70.5	11
12	1,365.47	7,675	119.5	70.8	1,382.80	12,067	166.3	321.7	1,379.44	11,144	89.3	70.1	1,357.26	6,082	79.3	70.6	12
13	1,366.33	7,864	166.1	70.8	1,382.54	11,994	154.4	190.9	1,379.62	11,193	96.4	70.1	1,357.31	6,095	75.8	70.7	13
14	1,367.33	8,091	185.3	70.8	1,382.11	11,874	154.2	213.3	1,379.74	11,225	88.8	70.1	1,357.33	6,098	74.3	70.9	14
15	1,368.10	8,270	161.7	70.8	1,380.88	11,534	154.2	324.0	1,379.87	11,260	89.4	70.1	1,357.32	6,096	71.8	71.0	15
16	1,369.13	8,516	150.2	25.8	1,379.58	11,182	147.7	324.0	1,379.99	11,292	88.3	70.1	1,357.28	6,089	68.8	71.0	16
17	1,370.34	8,812	151.1	1.8	1,378.31	10,844	154.6	323.0	1,380.19	11,346	100.0	70.2	1,357.24	6,082	69.4	71.0	17
18	1,371.56	9,115	155.5	1.8	1,377.09	10,524	145.7	304.9	1,380.29	11,374	87.2	70.3	1,357.16	6,068	65.5	71.0	18
19	1,372.37	9,318	147.9	44.8	1,375.96	10,231	119.9	265.1	1,380.40	11,403	87.6	70.3	1,357.07	6,052	64.7	71.0	19
20	1,372.93	9,459	141.7	70.4	1,374.81	9,936	118.4	264.5	1,380.53	11,439	90.0	70.3	1,357.00	6,040	66.1	71.0	20
21	1,373.51	9,606	144.7	70.4	1,374.46	9,847	114.8	157.2	1,380.62	11,463	84.9	70.4	1,356.94	6,029	67.3	71.0	21
22	1,374.07	9,747	142.8	70.4	1,374.74	9,918	107.9	69.8	1,380.71	11,488	86.1	70.5	1,356.87	6,017	67.6	72.1	22
23	1,374.56	9,872	134.9	70.4	1,375.01	9,987	106.5	69.8	1,381.09	11,592	80.4	24.7	1,356.82	6,008	68.3	70.9	23
24	1,375.04	9,995	133.7	70.4	1,375.27	10,054	105.7	69.8	1,381.67	11,752	85.6	1.8	1,356.76	5,998	68.2	71.7	24
25	1,375.57	10,118	140.9	70.7	1,375.50	10,113	101.4	69.8	1,382.22	11,904	81.6	1.8	1,356.69	5,985	66.5	70.6	25
26	1,375.95	10,229	120.9	71.4	1,375.73	10,172	101.3	69.8	1,382.52	11,988	80.7	36.3	1,356.60	5,969	65.3	70.6	26
27	1,376.40	10,345	129.5	70.6	1,375.93	10,224	98.6	69.9	1,382.57	12,002	79.1	70.7	1,356.46	5,938	62.6	72.9	27
28	1,376.84	10,450	129.2	70.1	1,376.12	10,272	97.7	70.1	1,382.60	12,011	78.8	70.9	1,356.31	5,919	60.4	71.6	28
29	1,377.24	10,563	125.0	70.1	1,376.30	10,319	95.4	70.1	1,380.65	11,471	97.6	366.3	1,356.18	5,896	61.6	71.4	29
30					1,376.48	10,367	94.6	70.1	1,376.73	10,430	53.4	576.2	1,356.05	5,873	60.2	70.3	30
31					1,376.67	10,415	95.8	70.1					1,356.00	5,864	61.5	64.2	31
TOTAL			3,651.8	1,841.1			4,228.1	4,248.1			2,770.1	2,692.3			2,206.0	4,459.5	
Inf. Ac. Ft.		7,243.4				8,386.3				5,494.4				4,375.5		56,699.5	
Outf. Ac. Ft.		3,651.7 + (46.4)				8,425.9 + (108.4)				5,340.0 + (138.8)				8,845.2 + (96.3)		53,975.9 + (608.5)	
Maximum Mean Daily Inflow		185.3				436.5				136.8				83.0		697.4	
Minimum Mean Daily Inflow		83.0				94.6				53.4				60.2		53.4	
Storage Change		+ 3,545.2				− 148.1				+ 15.5				− 4,566.1		1,527.0 (1)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,384.25	feet	on	3/11/68	Storage	12,477.7	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,304.92	feet	on	9/6/68	Storage	832.5	Acre Feet	O. R. WATKINS	Dam Tender	Gage Hts. copied	RAP JSL	
Max. Peak Inf.	1,616.7	C. F. S. from	10:00 A.M.	on	11/19/67	to	12:00 NOON on	11/19/67	E. K. DE VORE	Hydrographer	Storage applied	RAP JSL
Max. Peak Outf.	905.2	C. F. S. from	8:00 A.M.	on	5/2/68	to	12:00 NOON on	5/2/68		Hydrographer	Inf. & Outf. comp.	RAP JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

(1) 587 A.F. LOSS DUE TO SILTATION. CHANGE TO TABLE XXII INTERIM - 11/1, SURVEY OF AUGUST 1967.

76D138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam

In San Gabriel Canyon for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 40,697 Ac. Ft. at Spillway Elev. 1,453.0 Ft. as of August 1967 Gage Heights Read Daily

Day	JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1,355.98	5,861	60.7	60.5	1,352.35	5,250	47.5	60.2	1,317.31	1,591	41.6	50.0	1,306.45	917	31.4	41.6	1
2	1,355.91	5,849	56.6	60.5	1,352.07	5,214	44.6	60.2	1,316.98	1,569	39.5	50.4	1,306.07	896	31.2	41.4	2
3	1,355.83	5,835	55.0	60.5	1,350.59	4,981	47.1	162.7	1,316.56	1,539	37.1	50.8	1,305.75	878	32.7	41.3	3
4	1,355.77	5,824	56.8	60.5	1,350.32	4,942	42.5	60.0	1,316.09	1,506	35.5	50.8	1,305.43	861	32.9	41.3	4
5	1,355.74	5,819	59.8	60.5	1,350.08	4,908	44.1	59.7	1,315.76	1,484	37.6	47.9	1,304.92	832	27.8	41.3	5
6	1,355.72	5,816	61.0	61.4	1,349.88	4,880	46.8	59.7	1,315.41	1,461	35.1	46.2	1,305.03	838	35.1	31.4	6
7	1,355.72	5,816	63.8	62.6	1,349.65	4,849	45.7	59.7	1,315.11	1,441	36.9	46.2	1,305.20	848	31.3	25.7	7
8	1,355.73	5,817	62.0	60.3	1,349.43	4,820	46.0	59.5	1,314.73	1,416	34.5	46.1	1,305.32	854	29.9	25.7	8
9	1,355.75	5,821	63.6	60.3	1,349.21	4,790	47.1	59.5	1,314.34	1,390	34.3	46.1	1,305.62	871	35.2	26.1	9
10	1,355.72	5,816	59.9	60.3	1,348.93	4,753	43.4	60.0	1,313.95	1,365	34.0	46.1	1,305.94	889	35.9	26.2	10
11	1,355.63	5,800	55.7	61.4	1,348.53	4,701	46.2	70.3	1,313.50	1,336	32.6	46.1	1,306.22	904	34.8	26.2	11
12	1,355.53	5,783	55.8	62.6	1,345.44	4,314	62.1	255.1	1,313.10	1,311	31.8	43.9	1,306.47	918	33.9	26.2	12
13	1,355.43	5,765	54.8	61.5	1,341.07	3,804	73.1	328.8	1,312.80	1,292	33.6	42.5	1,306.55	923	32.8	30.0	13
14	1,355.23	5,731	54.3	69.5	1,336.39	3,296	63.8	318.4	1,312.54	1,276	35.1	42.5	1,306.51	921	31.4	32.1	14
15	1,355.10	5,708	51.5	60.5	1,330.48	2,701	59.7	358.5	1,312.33	1,263	36.5	42.5	1,306.54	922	33.3	32.1	15
16	1,354.98	5,687	52.1	60.4	1,322.56	1,991	42.2	399.0	1,312.11	1,249	36.0	42.5	1,306.52	921	32.1	32.1	16
17	1,354.83	5,662	50.4	61.5	1,320.19	1,803	42.9	136.7	1,311.89	1,236	36.1	42.5	1,306.51	926	35.4	32.1	17
18	1,354.69	5,638	52.7	62.6	1,320.11	1,797	47.6	49.7	1,311.64	1,221	35.4	42.4	1,306.56	923	31.1	32.1	18
19	1,354.54	5,613	50.9	61.5	1,319.93	1,783	43.7	49.7	1,311.38	1,205	34.8	42.3	1,306.52	921	31.3	32.1	19
20	1,354.38	5,585	50.2	61.5	1,319.68	1,764	41.1	49.7	1,311.00	1,182	32.2	43.4	1,306.53	922	32.9	32.1	20
21	1,354.20	5,555	49.6	62.6	1,319.34	1,739	37.9	49.7	1,310.68	1,163	34.6	43.4	1,306.55	923	33.1	32.1	21
22	1,354.02	5,524	47.1	60.4	1,319.03	1,715	38.8	49.7	1,310.36	1,143	34.5	43.3	1,306.51	921	31.9	32.1	22
23	1,353.83	5,492	46.2	60.4	1,318.75	1,695	40.2	49.7	1,310.03	1,124	34.4	43.3	1,306.38	913	29.4	32.2	23
24	1,353.64	5,461	47.8	62.6	1,318.51	1,677	41.7	49.7	1,309.70	1,104	33.4	42.3	1,306.22	904	28.6	32.2	24
25	1,353.42	5,424	49.7	66.5	1,318.16	1,652	38.4	50.5	1,309.30	1,081	31.4	42.3	1,306.03	894	27.7	32.2	25
26	1,353.26	5,399	48.6	60.4	1,317.82	1,627	37.9	49.3	1,308.92	1,058	31.8	42.3	1,305.86	884	29.2	32.2	26
27	1,353.06	5,364	46.6	61.5	1,317.53	1,607	39.3	49.3	1,308.52	1,035	31.3	42.2	1,305.64	872	25.6	32.2	27
28	1,352.87	5,333	47.8	61.5	1,317.29	1,590	41.2	49.3	1,308.03	1,007	28.4	42.0	1,305.40	859	25.8	32.2	28
29	1,352.70	5,306	48.0	60.4	1,317.51	1,605	58.2	49.9	1,307.60	982	30.1	41.8	1,305.24	850	28.0	32.0	29
30	1,352.53	5,279	48.9	60.4	1,317.69	1,618	57.4	50.2	1,307.20	959	30.7	41.6	1,305.26	851	32.7	31.8	30
31					1,317.57	1,609	46.6	50.1	1,306.83	938	31.4	41.6					31
TOTAL			1,609.4	1,847.1			1,456.2	3,264.5			1,062.3	1,377.3			944.6	970.3	
Inf. Ac. Ft.		3,192.3				2,888.5				2,107.2				1,873.6		66,761.1	
Outf. Ac. Ft.		3,663.6 + (114.2)				6,475.0 + (82.7)				2,731.8 + 46.2)				1,924.5 + (36.4)		68,770.8+(888.0)	
Maximum Mean Daily Inflow		63.8				73.1				41.5				35.8		597.4	
Minimum Mean Daily Inflow		46.2				37.9				28.4				25.8		28.4	
Storage Change		- 585.5				- 3,669.2				- 670.8				- 87.3		(1) - 3,485.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,384.25	feet	on	3/11/68	Storage	12,477.7	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,304.92	feet	on	9/6/68	Storage	832.5	Acre Feet	O. R. WATKINS	Dam Tender	Gage Hts. copied	RAP	JSL
Max. Peak Inf.	1,616.7	C. F. S. from	10:00 A.M.	on	11/19/67	to	12:00 NOON	on	11/19/67	E. K. DE VORE	Hydrographer	Storage applied	RAP	JSL
Max. Peak Outf.	905.2	C. F. S. from	8:00 A.M.	on	5/2/68	to	12:00 NOON	on	5/2/68		Hydrographer	Inf. & Outf. comp.	RAP	JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.
(1) 587 A.F. LOSS DUE TO SILTATION. CHANGE TO TABLE XXII INTERIM - 11/1. SURVEY OF AUGUST 1967.

76D138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam

In San Gabriel Canyon for the Year Ending September 30, 1969

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 38,778.2 / 36,748.5 Ac. Ft. at Spillway Elev. 1,453.0 Ft. as of February / March 1969 Gage Heights Read Daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1,305.51	865	36.8	29.5	1,323.00	2,027	30.0	28.9	1,319.99	1,788	27.2	32.2	1,323.13	1,666	32.1	25.8	1
2	1,305.80	881	36.2	27.9	1,322.98	2,026	28.9	28.9	1,319.85	1,777	26.9	32.1	1,323.24	1,676	31.0	25.8	2
3	1,306.11	898	36.5	27.9	1,322.99	2,026	29.3	28.9	1,319.75	1,770	26.8	29.7	1,323.32	1,683	29.6	25.8	3
4	1,306.38	913	35.6	27.9	1,322.99	2,026	29.3	28.9	1,319.74	1,769	26.5	26.4	1,323.36	1,686	28.1	25.8	4
5	1,306.57	924	33.8	27.9	1,323.00	2,027	30.1	29.0	1,319.76	1,770	26.4	25.4	1,323.43	1,692	29.3	25.8	5
6	1,306.73	933	33.0	28.1	1,322.97	2,025	29.8	30.1	1,319.78	1,772	27.0	25.4	1,323.46	1,695	28.7	27.0	6
7	1,306.88	941	32.6	29.2	1,322.88	2,017	29.3	32.7	1,319.78	1,772	25.9	25.4	1,323.52	1,700	28.8	25.9	7
8	1,307.11	954	35.2	28.2	1,322.73	2,005	27.8	32.9	1,319.79	1,773	26.6	25.4	1,323.58	1,705	28.7	25.9	8
9	1,307.21	960	31.9	28.5	1,322.59	1,994	27.9	32.7	1,319.81	1,774	26.4	25.4	1,323.66	1,712	29.7	26.0	9
10	1,307.38	970	33.7	28.3	1,322.46	1,983	27.9	32.7	1,319.81	1,774	25.5	25.4	1,323.72	1,718	28.9	26.0	10
11	1,307.58	981	34.2	28.3	1,322.30	1,970	26.9	32.7	1,319.91	1,782	29.7	25.4	1,323.79	1,724	29.5	26.0	11
12	1,307.74	990	33.3	28.3	1,322.17	1,959	27.4	32.7	1,319.95	1,785	27.4	25.4	1,323.85	1,729	28.9	26.0	12
13	1,307.89	999	33.2	28.3	1,322.04	1,949	28.2	32.7	1,320.01	1,789	27.9	25.4	1,324.07	1,748	35.8	26.0	13
14	1,308.11	1,012	35.1	28.3	1,321.93	1,940	28.3	32.7	1,320.06	1,793	27.8	25.4	1,325.48	1,780	92.8	26.0	14
15	1,308.87	1,056	40.3	17.5	1,322.06	1,950	37.8	32.7	1,320.11	1,797	27.4	25.4	1,326.12	1,943	57.7	26.1	15
16	1,310.15	1,131	49.6	11.1	1,322.04	1,949	32.6	32.7	1,320.21	1,805	29.5	25.4	1,326.54	1,984	47.5	26.2	16
17	1,311.42	1,207	50.2	11.2	1,321.97	1,943	29.9	32.5	1,320.30	1,812	29.4	25.4	1,326.85	2,015	42.0	26.2	17
18	1,312.97	1,303	60.5	11.4	1,321.88	1,936	29.2	32.4	1,320.38	1,818	28.8	25.4	1,327.23	2,054	46.0	26.3	18
19	1,314.68	1,413	67.4	11.4	1,321.80	1,930	29.8	32.3	1,320.47	1,825	29.1	25.4	1,329.12	2,250	125.2	26.5	19
20	1,316.28	1,519	65.3	11.4	1,321.69	1,921	28.4	32.3	1,320.55	1,831	28.6	25.4	1,339.55	3,475	840.9	223.3	20
21	1,317.84	1,628	67.2	11.5	1,321.57	1,911	27.9	32.3	1,320.62	1,837	28.9	25.4	1,377.87	11,410	5,951.0	1,950.0	21
22	1,319.20	1,728	62.9	11.6	1,321.46	1,903	28.9	32.3	1,320.70	1,843	28.9	25.4	1,385.87	13,676	3,042.3	1,900.0	22
23	1,320.57	1,833	65.5	11.7	1,321.31	1,891	26.7	32.3	1,320.75	1,847	27.8	25.4	1,390.14	14,972	1,681.0	1,028.0	23
24	1,321.01	1,867	30.0	11.9	1,321.17	1,880	27.1	32.3	1,320.78	1,849	26.6	25.4	1,392.15	15,602	2,882.8	2,565.0	24
25	1,321.37	1,896	27.3	11.8	1,321.02	1,868	26.9	32.3	1,321.24	1,885	43.6	25.4	1,458.30	41,610 *	25,910.2	11,380.0	25
26	1,321.70	1,922	25.7	11.8	1,320.78	1,849	23.4	32.2	1,321.94	1,941	53.9	25.4	1,457.15	40,983	17,783.8	13,100.0	26
27	1,322.04	1,949	26.3	11.8	1,320.62	1,837	26.7	32.2	1,322.30	1,970	40.1	25.4	1,438.90	31,837	11,790.4	16,400.0	27
28	1,322.38	1,977	26.6	11.8	1,320.47	1,825	26.9	32.2	1,322.54	1,990	35.7	25.4	1,410.10	20,016	2,341.1	8,300.0	28
29	1,322.72	2,004	25.8	11.9	1,320.28	1,810	25.1	32.2	1,322.75	2,007	34.2	25.4	1,413.20	21,126	2,612.3	2,051.0	29
30	1,323.00	2,027	28.9	16.9	1,320.13	1,799	27.0	32.2	1,322.90	2,019	31.7	25.4	1,415.08	21,815	2,081.1	1,732.0	30
31	1,322.99	2,026	29.0	29.2					1,323.02	2,029	31.2	25.8	1,421.52	24,278	1,818.1	575.0	31
TOTAL			1,229.6	621.5			355.4	953.9			933.4	306.6			79,535.4	66,699.2	
Inf. Ac. Ft.		1,229.6				1,696.7				1,851.4				157,756.1		162,533.8	
Outf. Ac. Ft.		1,232.7 + (28.4)				1,892.0 + (31.5)				1,599.8 + (21.2)				132,295.9 + (25.0)		137,020.4+(106.1)	
Maximum Mean Daily Inflow		65.4				37.8				53.9				25,910.2		25,910.2	
Minimum Mean Daily Inflow		24.6				23.4				25.5				28.0		23.4	
Storage Change		+ 1,175.0				- 227.0				+ 230.0				+ 22,623.3		+ 23,801.3 *	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,459.4	feet	on	2/25/69	Storage	44,240.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,293.0	feet	on	9/16-30/69	Storage	0	Acre Feet	O.R. WATKINS	Dam Tender	Gage Hts. copied	RAP	JSL
Max. Peak Inf.	45,190.0	C. F. S. from	6:00 A.M.	on	2/25/69	to	7:00 A.M.	on	2/25/60	E.K. DE VORE	Hydrographer	Storage applied	RAP	JSL
Max. Peak Outf.	27,750.0	C. F. S. from	12:00 NOON	on	2/25/69	to	2:00 P.M.	on	2/25/69		Hydrographer	Inf. & Outf. comp.	RAP	JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.
* NEW STORAGE TABLE 1/25. 2,009.7 A.F. LOSS DUE TO SILTATION (TABLE XXIV).

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DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam

In San Gabriel Canyon for the Year Ending September 30, 1969

Drainage Area 202.7 Square Miles. Capacity of Reservoir 38,778.2 / 36,748.5 Ac. Ft. at Spillway Elev. 1,453.0 Ft. as of February / March 1969 / 1969

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,426.11	26,152	1,459.2	513.0	1,392.75	14,453	3,333.6	3,426.7	1,371.37	9,104	937.9	961.7	1,365.09	6,334*	536.4	551.8	1
2	1,429.05	27,406	1,151.9	518.0	1,402.80	17,336	2,567.9	1,113.3	1,371.90	9,083	923.5	931.1	1,365.10	6,336	540.9	533.6	2
3	1,429.55	27,627	1,101.3	989.0	1,403.48	17,755	2,199.3	1,985.2	1,372.10	9,157	966.5	930.0	1,363.45	6,062	543.8	681.9	3
4	1,433.30	29,279	975.9	141.0	1,409.75	19,393	1,984.1	905.0	1,371.47	9,012	773.2	844.8	1,361.76	5,786	543.9	681.8	4
5	1,427.95	26,932	1,176.7	2,360.0	1,413.55	23,120	1,629.1	0	1,371.92	9,116	843.5	790.1	1,360.22	5,541	518.4	641.8	5
6	1,421.60	24,310	3,471.0	4,792.0	1,424.47	25,471	1,623.1	434.6	1,371.55	9,031	923.3	964.8	1,359.13	5,371	526.3	611.8	6
7	1,408.40	19,422	2,479.9	4,943.0	1,423.60	25,115	1,673.2	1,852.6	1,370.46	8,780	843.4	963.4	1,357.36	5,176	534.1	631.8	7
8	1,405.30	18,562	1,715.3	2,243.0	1,421.25	24,171	1,605.1	2,080.0	1,369.96	8,439	792.8	963.4	1,355.78	5,012	554.9	636.2	8
9	1,399.55	16,490	1,549.7	2,492.0	1,418.45	23,082	1,520.4	2,067.5	1,368.34	8,300	807.6	877.3	1,376.07	4,906	577.9	629.7	9
10	1,398.20	16,073	1,280.7	1,490.0	1,415.70	22,045	1,534.3	2,055.0	1,370.17	8,714	858.5	649.0	1,355.12	4,766	577.8	647.6	10
11	1,396.55	15,572	1,233.0	1,485.0	1,412.11	20,732	1,392.5	2,053.3	1,371.58	9,037	818.5	655.0	1,353.89	4,588	560.5	648.9	11
12	1,394.35	14,919	1,181.4	1,480.0	1,408.06	19,304	1,324.9	2,043.5	1,370.82	8,863	764.2	851.7	1,352.67	4,414	558.2	644.9	12
13	1,390.82	13,900	957.4	1,470.0	1,403.45	17,745	1,235.3	2,020.0	1,370.02	8,679	760.7	851.7	1,351.07	4,191	535.6	645.8	13
14	1,386.30	12,652	831.2	1,460.0	1,397.83	15,960	1,111.7	2,010.0	1,370.08	8,693	782.2	774.4	1,350.00	4,045	528.7	601.0	14
15	1,384.67	12,222	869.2	1,085.0	1,390.00	13,668	933.5	1,976.7	1,371.26	8,964	789.0	649.6	1,348.96	3,906	504.5	573.5	15
16	1,383.48	11,914	895.0	1,050.0	1,381.98	11,409	765.8	1,903.3	1,371.93	9,130	741.8	656.0	1,347.73	3,751	493.1	571.8	16
17	1,381.91	11,517	770.2	970.0	1,374.54	9,728	736.9	1,643.3	1,372.01	9,137	707.5	701.8	1,346.87	3,634	496.3	554.3	17
18	1,380.58	11,186	803.4	970.0	1,374.08	9,619	396.3	450.0	1,372.13	9,165	597.3	681.8	1,345.16	3,544	497.4	541.8	18
19	1,379.27	10,864	808.5	970.0	1,372.23	9,188	930.6	1,046.2	1,372.17	9,174	668.9	661.8	1,344.73	3,466	468.8	557.4	19
20	1,373.14	10,588	839.7	978.0	1,370.88	8,876	839.2	995.7	1,372.07	9,151	652.5	661.8	1,343.58	3,226	479.3	548.0	20
21	1,376.75	10,253	811.8	980.0	1,371.43	9,003	956.3	991.0	1,372.51	9,253	714.9	661.8	1,342.67	3,121	483.8	541.8	21
22	1,375.40	10,169	938.2	980.0	1,370.42	8,771	848.9	965.0	1,372.47	9,243	679.4	681.8	1,341.70	3,009	486.6	541.8	22
23	1,386.50	12,706	2,941.1	1,662.0	1,370.15	8,709	827.8	858.3	1,371.42	9,001	626.3	747.3	1,340.58	2,883	479.1	541.8	23
24	1,414.00	21,418	7,627.9	3,236.0	1,370.15	8,709	802.0	800.0	1,369.33	8,523	563.1	801.8	1,339.48	2,762	481.5	541.8	24
25	1,457.70	41,282	24,015.1	13,000.0	1,370.14	8,707	781.0	780.0	1,368.38	8,309	644.6	750.1	1,338.20	2,623	473.0	541.8	25
26	1,444.30	34,405	10,349.4	14,014.0	1,370.20	8,721	769.2	780.0	1,367.32	8,072	554.0	670.6	1,337.27	2,523	411.6	460.9	26
27	1,417.90	22,872	5,297.1	12,110.0	1,370.10	8,698	785.4	795.2	1,366.22	7,829	526.8	646.3	1,336.20	2,411	384.2	440.0	27
28	1,393.40	14,642	3,256.5	9,365.0	1,369.78	8,623	764.8	820.0	1,365.21	7,608	523.7	833.3	1,335.29	2,335	380.0	426.7	28
29					1,369.92	8,657	813.9	795.0	1,364.91	7,543	519.6	549.7	1,334.33	2,279	376.2	393.8	29
30					1,371.05	8,915	861.3	729.4	1,365.28	7,623	524.1	481.8	1,334.30	2,214	360.8	392.4	30
31					1,373.08	9,153	959.7	838.3					1,333.71	2,255	362.5	391.7	31
TOTAL			37,938.3	92,771.0			34,378.1	41,093.9			21,926.5	22,649.9			15,263.1	17,355.9	
Inf. Ac. Ft.		174,424.0				76,122.0				43,490.7				30,274.0		486,844.5	
Outf. Ac. Ft.		184,008.5 + (51.6)				81,505.5 + (102.3)				44,925.4 + (94.9)				34,424.9 + (61.0)		481,887.7+(416.1)	
Maximum Mean Daily Inflow		28,015.1				3,332.5				966.4				577.9		28,015.1	
Minimum Mean Daily Inflow		770.2				396.3				518.5				360.8		360.8	
Storage Change		− 9,636.3				− 5,488.8				− 1,529.6				− 4,368.0		+ 2,779.*	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,459.4	feet	on	2/25/69	Storage	44,240.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,293.0	feet	on	9/16-30/69	Storage	0	Acre Feet	O. R. WATKINS	Dam Tender	Gage Hts. copied	RAP	JSL
Max. Peak Inf.	45,190.0	C.F.S. from	6:00 A.M.	on	2/25/69	to	7:00 A.M. on	2/25/69	E. K. DE VORE	Hydrographer	Storage applied	RAP	JSL
Max. Peak Outf.	27,750.0	C.F.S. from	12 NOON	on	2/25/69	to	2:00 P.M. on	2/25/69		Hydrographer	Inf. & Outf. comp.	RAP	JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

* NEW STORAGE TABLE 5/1. 1,247.3 A.F. LOSS DUE TO SILTATION (TABLE XXV) 13,257. ACRE-FOOT TOTAL LOSS DUE TO SILTATION.)

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DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam

In San Gabriel Canyon for the Year Ending September 30, 1969

Drainage Area 202.7 Square Miles. Capacity of Reservoir 38,778.2 / 36,748.5 Ac. Ft. at Spillway Elev. 1,453.0 Ft. as of February / March 69 / 69

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,332.99	2,082	355.2	391.0	1,329.86	1,695	219.7	214.0	1,329.12	1,718	157.1	157.8	1,323.73	1,684	97.3	93.4	1
2	1,332.56	2,040	354.7	375.0	1,329.14	1,719	222.1	208.4	1,329.12	1,713	155.6	154.4	1,323.61	1,674	95.4	93.4	2
3	1,332.22	2,007	344.3	360.4	1,329.23	1,727	213.6	208.4	1,329.00	1,707	150.2	154.4	1,328.53	1,667	97.1	99.4	3
4	1,331.71	1,957	336.2	360.4	1,328.92	1,700	195.6	208.4	1,329.01	1,708	152.6	150.6	1,328.48	1,663	93.4	99.4	4
5	1,331.23	1,911	331.8	354.2	1,328.53	1,667	192.6	208.4	1,329.28	1,732	151.7	138.2	1,323.40	1,656	97.1	99.4	5
6	1,330.82	1,872	323.4	342.2	1,328.17	1,637	193.6	208.4	1,328.91	1,699	136.4	151.7	1,328.34	1,651	97.7	99.4	6
7	1,330.29	1,823	312.1	336.4	1,328.12	1,633	190.5	200.0	1,328.86	1,695	135.5	136.4	1,328.24	1,643	96.0	99.4	7
8	1,329.69	1,768	309.6	336.4	1,328.00	1,623	190.7	194.7	1,328.96	1,703	132.2	127.0	1,328.24	1,643	94.5	93.2	8
9	1,329.45	1,747	310.2	320.2	1,328.37	1,654	198.2	181.3	1,329.11	1,717	129.4	121.4	1,328.34	1,651	95.1	89.4	9
10	1,329.24	1,728	300.4	309.7	1,328.82	1,692	193.7	173.4	1,329.22	1,726	127.5	121.4	1,327.49	1,582	97.8	121.1	10
11	1,329.21	1,726	296.1	297.1	1,329.00	1,707	181.8	173.4	1,329.30	1,734	126.7	120.7	1,325.40	1,425	87.9	166.0	11
12	1,329.68	1,767	316.0	294.6	1,329.21	1,726	183.8	173.4	1,329.33	1,736	122.8	120.4	1,323.30	1,291	87.1	158.8	12
13	1,329.60	1,760	294.4	297.4	1,329.28	1,732	177.7	173.4	1,329.33	1,736	121.5	120.4	1,320.93	1,132	86.9	161.5	13
14	1,329.56	1,757	294.4	295.5	1,329.22	1,726	171.8	173.4	1,329.30	1,734	120.2	120.4	1,316.00	852	87.0	227.6	14
15	1,329.41	1,743	292.2	293.4	1,329.20	1,725	170.0	169.8	1,329.30	1,734	119.3	113.1	1,313.16	704	91.5	165.1	15
16	1,329.62	1,762	293.6	283.8	1,329.13	1,719	165.3	167.4	1,329.39	1,742	118.6	113.4	1,293.00	0	86.6	441.3	16
17	1,330.22	1,817	291.8	263.7	1,329.00	1,707	162.6	167.4	1,329.47	1,749	118.0	113.4			87.0	87.0	17
18	1,330.08	1,803	280.7	285.4	1,329.15	1,720	175.4	167.4	1,329.51	1,752	116.4	113.4			82.6	82.6	18
19	1,329.69	1,769	267.5	284.4	1,329.68	1,769	192.4	167.4	1,329.45	1,747	112.2	113.4			82.9	82.9	19
20	1,329.49	1,751	265.9	274.3	1,329.80	1,778	181.6	175.2	1,329.36	1,739	111.1	113.4			84.3	84.3	20
21	1,329.44	1,746	265.1	266.9	1,329.50	1,751	176.9	189.3	1,329.25	1,729	110.2	113.4			86.9	96.9	21
22	1,329.35	1,738	260.8	264.4	1,329.10	1,715	170.4	187.4	1,329.07	1,713	107.1	113.4			88.4	88.4	22
23	1,329.29	1,733	257.2	259.2	1,329.01	1,708	176.4	179.5	1,328.91	1,691	103.6	113.4			82.9	92.9	23
24	1,329.32	1,735	256.4	254.7	1,328.99	1,706	174.7	174.4	1,328.55	1,669	103.5	113.4			81.3	81.3	24
25	1,329.20	1,725	249.4	254.4	1,329.00	1,707	172.0	170.7	1,328.48	1,663	105.3	108.0			82.9	82.9	25
26	1,329.29	1,733	251.8	246.9	1,329.15	1,720	171.0	163.4	1,328.53	1,667	107.6	104.3			81.0	81.0	26
27	1,329.38	1,741	247.1	242.4	1,329.30	1,734	170.8	163.4	1,328.56	1,670	101.4	99.0			81.0	81.0	27
28	1,329.25	1,729	237.6	242.4	1,329.46	1,748	171.5	163.4	1,328.58	1,671	97.8	96.0			82.3	82.3	28
29	1,328.88	1,697	227.1	242.4	1,329.40	1,743	161.5	163.4	1,328.70	1,682	102.1	96.0			81.3	81.3	29
30	1,328.76	1,687	226.9	230.5	1,329.33	1,736	161.3	163.4	1,323.77	1,697	99.9	96.0			77.1	77.1	30
31					1,329.16	1,721	156.9	163.4	1,328.78	1,688	97.3	96.0					31
TOTAL			3,649.9	3,866.1			5,644.0	5,595.3			3,750.5	3,729.2			3,645.5	3,481.7	
Inf. Ac. Ft.		17,186.9				11,194.7				7,439.2				5,247.4		527,862.7	
Outf. Ac. Ft.		17,585.6 + (39.2)				11,098.1 + (62.1)				7,396.7 + (75.2)				6,905.8 + (29.8)		524,873.9+(622.4)	
Maximum Mean Daily Inflow		355.1				222.0				157.1				98.3		28,015.1	
Minimum Mean Daily Inflow		226.9				156.8				97.3				77.1		77.1	
Storage Change		− 467.9				+ 34.4				− 32.8				− 1,688.3		+ 2,778.6 *	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,459.4	feet	on	2/25/69	Storage	44,240.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,293.0	feet	on	9/16-30/69	Storage	0	Acre Feet	O. R. WATKINS	Dam Tender	Gage Hts. copied	RAP	JSL
Max. Peak Inf.	45,190.0	C.F.S. from	6:00 A.M.	on	2/25/69	to	7:00 A.M. on	2/25/69	E. K. DE VORE	Hydrographer	Storage applied	RAP	JSL
Max. Peak Outf.	27,750.0	C.F.S. from	12 NOON	on	2/25/69	to	2:00 P.M. on	2/25/69		Hydrographer	Inf. & Outf. comp.	RAP	JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

* 3,257. ACRE-FOOT TOTAL LOSS DUE TO SILTATION.

76D138N-688 3-64

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

In Big Dalton Canyon for the Year Ending September 30, 1968

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 4.49 Square Miles. Capacity of Reservoir 692.0 Ac. Ft. at Spillway Elev. 1,706.0 Ft. as of April 1967 Gage Heights Read Daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1669.0	145.3	0.8	0.1	1670.0	154.3	0.4	0	1675.2	204.8	2.6	0.1	1673.3	185.7	1.0	0.1	1
2	1669.2	147.1	0.8	0	1670.2	156.1	0.9	0	1675.6	209.0	2.1	0.1	1673.6	189.7	1.4	0	2
3	1669.4	148.9	0.8	0	1670.3	157.0	0.4	0	1675.9	212.1	1.6	0.1	1674.0	192.7	1.9	0	3
4	1669.6	150.7	0.8	0	1670.5	158.9	0.9	0	1676.1	214.2	1.1	0.1	1674.2	194.7	1.0	0	4
5	1669.8	152.5	0.8	0	1670.6	159.8	0.4	0	1676.4	217.4	1.7	0.1	1674.5	197.7	1.5	0	5
6	1670.0	154.3	0.8	0	1670.7	160.8	0.4	0	1676.7	220.6	1.7	0.1	1674.8	200.7	1.5	0	6
7	1670.2	156.1	0.8	0	1670.8	161.7	0.4	0	1677.0	223.9	1.6	0	1675.0	202.8	1.0	0	7
8	1670.3	157.0	0.8	0	1671.0	163.6	0.9	0	1677.3	227.1	1.6	0	1675.2	204.8	1.0	0	8
9	1670.4	158.0	0.8	0	1671.2	165.4	0.9	0	1677.6	230.4	1.6	0	1675.4	206.9	1.0	0	9
10	1670.6	159.8	0.8	0	1671.3	166.4	0.4	0	1677.8	232.6	1.0	0	1675.7	210.0	1.5	0	10
11	1670.4	158.0	0.8	0.7	1671.4	167.3	0.4	0	1678.0	234.8	1.0	0	1675.9	212.1	1.0	0	11
12	1670.0	154.3	0.8	3.3	1671.5	168.3	0.4	0	1678.2	237.0	1.1	0	1676.2	215.3	1.6	0	12
13	1669.4	148.9	0.8	3.6	1671.7	170.1	0.9	0	1678.4	239.2	1.1	0	1676.4	217.4	1.0	0	13
14	1668.8	143.5	0.9	3.6	1671.8	171.1	0.4	0	1677.9	233.7	2.6	5.5	1676.6	219.6	1.0	0	14
15	1668.2	138.1	0.9	3.6	1671.9	172.0	0.4	0	1676.1	214.2	1.5	11.4	1676.8	221.7	1.0	0	15
16	1667.6	132.9	0.9	3.6	1672.1	173.9	0.9	0	1674.1	193.7	1.0	11.4	1677.0	223.9	1.0	0	16
17	1667.5	132.1	0.9	1.4	1672.2	174.9	0.4	0	1672.3	175.9	2.4	11.4	1677.2	226.0	1.0	0	17
18	1667.7	133.8	0.9	0	1672.3	175.9	0.4	0	1670.8	161.7	4.2	11.4	1677.5	229.3	1.6	0	18
19	1667.9	135.5	0.9	0	1674.8	200.7	13.3	0.7	1669.4	148.9	4.7	11.2	1677.7	231.5	1.0	0	19
20	1668.1	137.2	0.9	0	1674.0	192.7	2.7	6.7	1669.1	145.2	2.9	4.3	1677.8	232.6	0.5	0	20
21	1668.3	139.0	0.9	0	1672.5	177.9	6.5	13.9	1669.5	149.8	1.9	0.1	1678.0	234.8	1.0	0	21
22	1668.4	139.9	0.9	0	1671.2	165.4	3.0	9.2	1670.0	154.3	2.4	0.1	1678.1	235.9	0.6	0	22
23	1668.6	141.7	0.9	0	1671.7	170.1	2.6	0.2	1670.4	158.0	2.0	0.1	1677.6	230.4	1.2	3.9	23
24	1668.8	143.5	0.9	0	1672.1	173.9	2.2	0.2	1670.8	161.7	2.0	0.1	1676.9	222.8	2.2	6.0	24
25	1668.9	144.4	0.9	0	1672.4	176.9	1.7	0.2	1671.1	164.5	1.6	0.1	1676.2	215.3	2.3	6.0	25
26	1669.1	146.2	0.9	0	1672.8	180.8	2.2	0.2	1671.5	168.3	2.0	0.1	1675.4	206.9	1.8	6.0	26
27	1669.3	148.0	0.9	0	1673.1	183.7	1.7	0.2	1671.8	171.1	1.6	0.1	1674.9	201.7	3.4	6.0	27
28	1669.5	149.8	0.9	0	1673.5	187.7	2.2	0.2	1672.2	174.9	2.1	0.1	1674.2	194.7	2.4	5.9	28
29	1669.6	150.7	0.9	0	1673.8	190.7	1.7	0.2	1672.5	177.9	1.6	0.1	1673.9	191.8	1.1	7.6	29
30	1669.7	151.6	0.9	0	1674.7	199.7	4.7	0.1	1672.8	180.8	1.6	0.1	1671.1	164.5	2.3	11.0	30
31	1669.9	153.4	0.9	0					1673.1	183.7	1.6	0.1	1670.4	158.0	2.3	5.5	31
TOTAL			26.6	19.9			56.5	32.0			61.2	68.3			46.0	59.0	
Inf. Ac. Ft.		52.8				112.2				121.4				91.2		377.6	
Outf. Ac. Ft.		39.4 + (4.3)				63.4 + (2.3)				135.4 + (1.9)				115.0 + (1.9)		353.2 + (10.4)	
Maximum Mean Daily Inflow		0.9				13.3				4.7				3.4		13.3	
Minimum Mean Daily Inflow		0.8				0.4				1.0				0.5		0.4	
Storage Change		+ 8.9				+ 46.3				- 15.9				- 25.7		+ 13.6	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,686.7	feet on	9/15-17/68	Storage	343.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1,667.5	feet on	10/17/67	Storage	132.1	Acre Feet	G. M. THRASHER	Dam Tender	Gage Hts. copied	GF JSL
Max. Peak Inf.	56.4	C.F.S. from	10:00 A.M. on 11/19/67	to	12:00 NOON	on 11/19/67	R. L. BROOK	Hydrographer	Storage applied	GF JSL
Max. Peak Outf.	17.0	C.F.S. from	12:00 P.M. on 11/20/67	to	8:00 A.M.	on 11/22/67		Hydrographer	Inf. & Outf. comp.	GF JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
INDICATES AVERAGE FOR PERIOD.

76D138N-688 3-64

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

In Big Dalton Canyon for the Year Ending September 30, 1968

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 4.49 Square Miles. Capacity of Reservoir 692.0 Ac. Ft. at Spillway Elev. 1,706.0 Ft. as of April 1967 Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1670.7	160.8	1.5	0.1	1671.1	164.5	1.0	0.1	1683.0	293.7	1.0	0	1680.1	258.6	1.1	0	1
2	1671.0	163.6	1.4	0	1671.3	166.4	1.0	0.1	1683.4	298.8	1.0	0.1	1680.2	259.8	0.5	0	2
3	1671.2	165.4	0.9	0	1671.5	168.3	1.0	0.1	1683.6	301.3	0.9	0	1680.3	261.0	0.5	0	3
4	1671.4	167.3	0.9	0	1671.7	170.1	0.9	0	1683.8	303.9	0.9	0	1680.5	263.3	1.1	0	4
5	1671.6	169.2	0.9	0	1672.0	173.0	1.4	0	1684.0	306.5	0.9	0	1680.7	263.6	1.1	0	5
6	1672.0	173.0	1.8	0	1672.2	174.9	0.9	0	1684.2	309.1	0.9	0	1680.8	266.8	0.6	0	6
7	1672.2	174.9	0.9	0	1672.7	179.8	2.5	0.1	1684.3	310.4	0.9	0	1681.0	269.2	1.2	0	7
8	1672.4	176.9	0.9	0	1675.2	204.8	14.6	2.0	1684.5	313.1	0.9	0	1681.1	270.4	0.7	0	8
9	1672.7	179.8	1.4	0	1675.9	212.1	3.8	0.2	1684.7	315.8	0.9	0	1681.2	271.6	0.7	0	9
10	1672.9	181.8	0.9	0	1676.4	217.4	2.7	0.1	1684.9	318.4	0.9	0	1681.3	272.8	0.7	0	10
11	1673.1	183.7	0.9	0	1676.8	221.7	2.2	0.1	1685.0	319.8	0.9	0	1681.4	274.0	0.7	0	11
12	1673.4	186.7	1.4	0	1677.3	227.1	2.8	0.1	1685.1	321.1	0.9	0	1681.6	276.4	1.3	0	12
13	1674.0	192.7	3.0	0.1	1677.8	232.6	2.9	0.2	1685.2	322.5	0.9	0	1681.7	277.6	0.7	0	13
14	1674.4	196.7	2.1	0.1	1678.2	237.0	2.4	0.2	1685.3	323.8	0.9	0	1681.8	278.8	0.7	0	14
15	1674.7	199.7	1.6	0.1	1678.6	241.5	2.3	0.1	1685.4	325.2	0.9	0	1681.9	280.0	0.7	0	15
16	1674.9	201.7	1.1	0.1	1678.9	244.8	1.8	0.1	1685.6	327.9	0.9	0	1682.0	281.3	0.7	0	16
17	1675.2	204.8	1.6	0.1	1679.2	248.3	1.9	0.1	1685.8	330.6	0.9	0	1682.1	282.5	0.7	0	17
18	1675.4	206.9	1.1	0.1	1679.5	251.7	1.9	0.1	1685.9	332.0	0.9	0	1682.2	283.7	0.7	0	18
19	1675.7	210.0	1.6	0.1	1679.8	255.2	1.9	0.1	1686.0	333.4	0.9	0	1682.3	285.0	0.7	0	19
20	1675.9	212.1	1.1	0.1	1680.1	258.6	1.9	0.1	1686.1	334.8	0.9	0	1682.4	286.2	0.7	0	20
21	1675.6	209.0	1.6	3.2	1680.5	263.3	2.5	0.1	1686.3	337.6	0.9	0	1682.5	287.5	0.7	0	21
22	1674.9	201.7	1.7	5.4	1680.7	265.6	1.3	0.1	1685.3	323.8	0.9	6.3	1682.6	288.7	0.7	0	22
23	1674.1	193.7	1.4	5.4	1680.9	268.0	1.3	0.1	1683.8	303.9	0.9	9.5	1682.7	289.9	0.7	0	23
24	1673.2	184.7	0.9	5.4	1681.1	270.4	1.3	0.1	1682.2	283.7	0.9	9.5	1682.8	291.2	0.7	0	24
25	1672.4	176.9	1.5	5.4	1681.3	272.8	1.4	0.1	1680.4	262.1	0.9	9.3	1682.8	291.2	0.1	0	25
26	1671.6	169.2	1.6	5.4	1681.5	275.2	1.4	0.1	1679.4	250.6	0.9	6.3	1682.9	292.4	0.7	0	26
27	1670.8	161.7	1.7	5.4	1681.7	277.6	1.3	0	1679.6	252.9	0.9	0	1683.0	293.7	0.7	0	27
28	1670.6	159.8	1.2	2.1	1681.9	280.0	1.3	0	1679.7	254.0	0.9	0	1683.1	294.9	0.7	0	28
29	1670.9	162.6	1.6	0.1	1682.1	282.5	1.3	0	1679.8	255.2	0.9	0	1683.2	296.2	0.7	0	29
30					1682.3	285.0	1.3	0	1679.9	256.3	0.9	0	1683.3	297.5	0.7	0	30
31					1682.6	288.7	1.9	0					1683.4	298.8	0.7	0	31
TOTAL			41.7	38.7			69.6	4.5			27.2	41.0			24.0	0	
Inf. Ac. Ft.		82.7				138.1				54.0				47.6		700.0	
Outf. Ac. Ft.		76.7 + (1.3)				8.8 + (3.1)				81.3 + (5.1)				0 + (5.1)		520.1 + (25.0)	
Maximum Mean Daily Inflow		3.0				14.6				1.0				1.3		14.6	
Minimum Mean Daily Inflow		0.9				0.9				0.9				0.1		0.1	
Storage Change		+ 4.6				+ 126.0				- 32.3				+ 42.4		+ 154.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,686.7	feet on	9/15-17/68	Storage	343.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1,667.5	feet on	10/17/67	Storage	132.1	Acre Feet	G. M. THRASHER	Dam Tender	Gage Hts. copied	GF JSL
Max. Peak Inf.	56.4	C.F.S. from	10:00 A.M. on 11/19/67	to	12:00 NOON	on 11/19/67	J. A. SINGER	Hydrographer	Storage applied	GF JSL
Max. Peak Outf.	17.0	C.F.S. from	12:00 P.M. on 11/20/67	to	8:00 A.M.	on 11/22/67		Hydrographer	Inf. & Outf. comp.	GF JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
INDICATES AVERAGE FOR PERIOD.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

In Big Dalton Canyon for the Year Ending September 30, 1968

Drainage Area 4.49 Square Miles. Capacity of Reservoir 692.0 Ac. Ft. at Spillway Elev. 1,706.0 Ft. as of April 1967

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1,683.4	298.8	0.1	0	1,685.0	319.8	0.1	0	1,686.0	333.4	0.8	0	1,686.5	340.5	0.1	0	1
2	1,683.4	298.8	0.1	0	1,685.1	321.1	0.7	0	1,686.0	333.4	0.1	0	1,686.5	340.5	0.1	0	2
3	1,683.4	298.8	0.1	0	1,685.1	321.1	0.1	0	1,686.0	333.4	0.2	0	1,686.5	340.5	0.1	0	3
4	1,683.5	300.1	0.7	0	1,685.2	322.5	0.7	0	1,686.0	333.4	0.1	0	1,686.6	341.9	0.1	0	4
5	1,683.6	301.3	0.7	0	1,685.2	322.5	0.1	0	1,686.0	333.4	0.1	0	1,686.6	341.9	0.1	0	5
6	1,683.8	303.9	1.3	0	1,685.2	322.5	0.1	0	1,686.0	333.4	0.1	0	1,686.6	341.9	0.1	0	6
7	1,683.9	305.2	0.7	0	1,685.3	323.8	0.7	0	1,686.0	333.4	0.1	0	1,686.6	341.9	0.1	0	7
8	1,683.9	305.2	0.1	0	1,685.3	323.8	0.1	0	1,686.1	334.8	0.9	0	1,686.6	341.9	0.1	0	8
9	1,684.0	306.5	0.7	0	1,685.4	325.2	0.7	0	1,686.1	334.8	0.2	0	1,686.6	341.9	0.1	0	9
10	1,684.0	306.5	0.1	0	1,685.4	325.2	0.1	0	1,686.1	334.8	0.2	0	1,686.6	341.9	0.1	0	10
11	1,684.1	307.8	0.7	0	1,685.5	326.6	0.7	0	1,686.1	334.8	0.2	0	1,686.6	341.9	0.1	0	11
12	1,684.2	309.1	0.7	0	1,685.5	326.6	0.1	0	1,686.1	334.8	0.1	0	1,686.6	341.9	0.1	0	12
13	1,684.2	309.1	0.1	0	1,685.5	326.6	0.1	0	1,686.1	334.8	0.1	0	1,686.6	341.9	0.1	0	13
14	1,684.3	310.4	0.7	0	1,685.5	326.6	0.1	0	1,686.2	336.2	0.8	0	1,686.6	341.9	0.1	0	14
15	1,684.3	310.4	0.1	0	1,685.5	326.6	0.1	0	1,686.2	336.2	0.1	0	1,686.7	343.3	0.1	0	15
16	1,684.4	311.8	0.7	0	1,685.5	326.6	0.1	0	1,686.2	336.2	0.1	0	1,686.7	343.3	0.1	0	16
17	1,684.4	311.8	0.1	0	1,685.6	327.9	0.7	0	1,686.2	336.2	0.1	0	1,686.7	343.3	0.1	0	17
18	1,684.5	313.1	0.7	0	1,685.6	327.9	0.1	0	1,686.2	336.2	0.1	0	1,685.7	329.3	0.1	6.6	18
19	1,684.5	313.1	0.1	0	1,685.6	327.9	0.1	0	1,686.3	337.7	0.8	0	1,684.1	307.8	0.1	10.2	19
20	1,684.6	314.4	0.7	0	1,685.6	327.9	0.1	0	1,686.3	337.7	0.1	0	1,682.4	286.3	0.1	10.2	20
21	1,684.6	314.4	0.1	0	1,685.6	327.9	0.2	0	1,686.3	337.7	0.1	0	1,680.6	264.5	0.1	10.2	21
22	1,684.7	315.8	0.7	0	1,685.7	329.3	0.8	0	1,686.3	337.7	0.1	0	1,678.6	241.5	0.1	10.2	22
23	1,684.7	315.8	0.1	0	1,685.7	329.3	0.2	0	1,686.4	339.1	0.9	0	1,676.6	219.6	0.1	10.2	23
24	1,684.7	315.8	0.1	0	1,685.8	330.6	0.8	0	1,686.4	339.1	0.2	0	1,675.0	202.8	0.1	10.0	24
25	1,684.8	317.1	0.7	0	1,685.8	330.6	0.2	0	1,686.4	339.1	0.2	0	1,673.0	182.8	0.1	10.0	25
26	1,684.8	317.1	0.1	0	1,685.8	330.6	0.2	0	1,686.4	339.1	0.1	0	1,672.3	175.9	0.1	3.7	26
27	1,684.9	318.4	0.7	0	1,685.9	332.0	0.8	0	1,686.4	339.1	0.1	0	1,672.4	176.9	0.1	0	27
28	1,684.9	318.4	0.2	0	1,685.9	332.0	0.2	0	1,686.4	339.1	0.2	0	1,672.5	177.9	0.1	0	28
29	1,685.0	319.8	0.8	0	1,685.9	332.0	0.2	0	1,686.4	339.1	0.2	0	1,672.6	178.9	0.1	0	29
30	1,685.0	319.8	0.2	0	1,685.9	332.0	0.2	0	1,686.4	339.1	0.1	0	1,672.6	178.9	0.1	0	30
31					1,685.9	332.0	0.2	0	1,686.5	340.5	0.8	0					31
TOTAL			13.8	0			10.3	0			8.4	0			3.0	81.3	
Inf. Ac. Ft.		27.5				20.5				16.7				6.0		770.7	
Outf. Ac. Ft.		0 + (6.5)				0 + (8.3)				0 + (8.2)				161.2 + (6.4)		681.3 + (54.4)	
Maximum Mean Daily Inflow		1.3				0.8				0.8				0.1		14.6	
Minimum Mean Daily Inflow		0.1				0.1				0.1				0.1		0.1	
Storage Change		+ 20.9				+ 12.2				+ 8.4				- 161.6		+ 34.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,686.7	feet on	9/15-17/68	Storage	343.3	Acre Feet		
Min. W. S. Elev.	1,667.5	feet on	10/17/67	Storage	132.1	Acre Feet		
Max. Peak Inf.	56.4	C.F.S. from	10:00 A.M. on	11/19/67	to	12:00 NOON on	11/19/67	
Max. Peak Outf.	17.0	C.F.S. from	12:00 P.M. on	11/20/67	to	8:00 A.M. on	11/22/67	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
G. M. THRASHER	Dam Tender	Gage Hts. copied	GF JSL	
J. A. SINGER	Hydrographer	Storage applied	GF JSL	
	Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
(INDICATES AVERAGE FOR PERIOD.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

In Big Dalton Canyon for the Year Ending September 30, 1969

452.0 March 69
514.6 January 69
Drainage Area 4.49 Square Miles. Capacity of Reservoir 692.0 Ac. Ft. at Spillway Elev. 1,706.0 Ft. as of April 1969

Continuous Water Stage Recorder Au or Bristol

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	1,672.7	179.9	0.5	0	1,674.3	195.7	0.1	0	1,675.6	209.0	0.1	0	1,677.1	225.0	0	0	1
2	1,672.8	180.8	0.5	0	1,674.4	196.7	0.6	0	1,675.6	209.0	0	0	1,677.2	225.1	0.6	0	2
3	1,672.9	181.8	0.5	0	1,674.4	196.7	0	0	1,675.7	210.1	0.6	0	1,677.3	227.2	0.6	0	3
4	1,673.0	182.8	0.5	0	1,674.5	197.8	0.5	0	1,675.8	211.1	0.6	0	1,677.4	228.3	0.6	0	4
5	1,673.0	182.8	0	0	1,674.5	197.8	0	0	1,675.8	211.1	0.1	0	1,677.4	228.3	0.1	0	5
6	1,673.1	183.8	0.5	0	1,674.6	198.9	0.6	0	1,675.8	211.1	0	0	1,677.5	229.4	0.6	0	6
7	1,673.2	184.8	0.5	0	1,674.6	198.9	0.1	0	1,675.9	212.2	0.6	0	1,677.5	229.4	0.1	0	7
8	1,673.2	184.8	0.1	0	1,674.6	198.8	0.1	0	1,675.9	212.2	0	0	1,677.5	229.4	0	0	8
9	1,673.2	184.8	0	0	1,674.6	198.8	0.1	0	1,675.9	212.2	0.1	0	1,677.5	229.4	0	0	9
10	1,673.2	184.8	0.1	0	1,674.7	199.8	0.6	0	1,676.0	213.2	0.6	0	1,677.6	230.4	0.6	0	10
11	1,673.3	185.8	0.5	0	1,674.7	199.8	0.1	0	1,676.0	213.2	0	0	1,677.6	230.4	0.1	0	11
12	1,673.4	186.9	0.5	0	1,674.8	200.9	0.5	0	1,676.0	213.2	0	0	1,677.7	231.5	0.6	0	12
13	1,673.5	187.9	0.5	0	1,674.8	200.9	0.1	0	1,676.0	213.2	0.1	0	1,677.8	232.6	0.6	0	13
14	1,673.5	187.9	0	0	1,674.9	201.8	0.6	0	1,676.1	214.3	0.6	0	1,678.1	235.9	1.7	0	14
15	1,673.6	188.7	0.5	0	1,675.0	202.8	0.5	0	1,676.2	215.3	0.6	0	1,678.2	237.0	0.6	0	15
16	1,673.6	188.7	0.1	0	1,675.1	203.9	0.5	0	1,676.2	215.3	0	0	1,678.2	237.0	0	0	16
17	1,673.7	189.7	0.6	0	1,675.2	204.9	0.5	0	1,676.3	216.4	0.6	0	1,678.3	238.2	0.6	0	17
18	1,673.7	189.7	0.1	0	1,675.2	204.9	0	0	1,676.3	216.4	0.1	0	1,678.1	239.3	0.6	0	18
19	1,673.8	190.7	0.6	0	1,675.2	204.9	0	0	1,676.4	217.5	0.6	0	1,678.9	243.8	2.3	0	19
20	1,673.8	190.7	0.1	0	1,675.2	204.9	0	0	1,676.4	217.5	0	0	1,680.4	262.2	9.3	0	20
21	1,673.8	190.7	0	0	1,675.2	204.9	0.1	0	1,676.4	217.5	0	0	1,667.5	354.8	51.1	4.4	21
22	1,673.9	191.7	0.6	0	1,675.2	204.9	0.1	0	1,676.5	218.6	0.6	0	1,693.3	534.7	105.3	14.6	22
23	1,673.9	191.7	0.1	0	1,675.4	207.0	1.1	0	1,676.5	218.6	0	0	1,697.3	516.1	20.7	30.0	23
24	1,674.0	192.7	0.6	0	1,675.4	207.0	0.1	0	1,676.5	218.6	0.1	0	1,692.1	425.7	96.4	142.0	24
25	1,674.0	192.7	0.1	0	1,675.4	207.0	0	0	1,676.7	220.7	1.1	0	1,707.6	546.6*	980.2	328.0	25
26	1,674.1	193.7	0.6	0	1,675.4	207.0	0.1	0	1,676.8	221.8	0.5	0	1,692.2	285.7	868.5	1,000.0	26
27	1,674.1	193.7	0.1	0	1,675.4	207.0	0.1	0	1,676.8	221.8	0	0	1,689.6	251.3	229.7	247.0	27
28	1,674.2	194.7	0.6	0	1,675.5	208.0	0.6	0	1,676.9	222.8	0.6	0	1,700.0	405.2	77.6	0	28
29	1,674.2	194.7	0.1	0	1,675.6	209.0	0.6	0	1,677.0	223.9	0.6	0	1,701.7	434.6	67.9	53.0	29
30	1,674.3	195.7	0.5	0	1,675.6	209.0	0	0	1,677.0	223.9	0	0	1,699.2	391.8	53.4	75.0	30
31	1,674.3	195.7	0	0					1,677.1	225.0	0.6	0	1,696.1	342.3	45.1	70.0	31
TOTAL			10.1	0			3.1	0			9.1	0			2615.2	2,464.0	
Inf. Ac. Ft.		20.1				16.1				18.1				5,187.2		5,241.5	
Outf. Ac. Ft.		0 + (3.3)				0 + (2.7)				0 + (2.2)				4,887.2 + (1.9)		4,887.2 + (10.1)	
Maximum Mean Daily Inflow		0.6				1.0				1.1				980.2		980.2	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change		+ 16.8				+ 13.3				+ 15.9				+ 117.2		+ 163.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,709.3	feet on	1/25/69	Storage	766.2	Acre Feet		
Min. W. S. Elev.	1,672.7	feet on	10/1/68	Storage	179.9	Acre Feet		
Max. Peak Inf.	1,430.	C.F.S. from	11:00 A.M. on	1/25/69	to	12:00 NOON on	1/25/69	
Max. Peak Outf.	1,400.	C.F.S. from	11:00 A.M. on	1/25/69	to	3:00 P.M. on	1/25/69	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
G. M. THRASHER	Dam Tender	Gage Hts. copied	RAP-JSL	
J. A. SINGER	Hydrographer	Storage applied	RAP-JSL	
	Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.
* 177.4 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XIII, 1/25/69.
(INDICATES AVERAGE FOR PERIOD.

76D138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

In Big Dalton Canyon for the Year Ending September 30, 1969

Drainage Area 4.49 Square Miles. Capacity of Reservoir 452.0 / 514.6 / 692.0 Ac. Ft. at Spillway Elev. 1,706.0 Ft. as of March 1969 / January 1969 / April 1967

Continuous Water Stage Recorder Au or Bristol

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,693.4	302.4	38.0	53.0	1,691.3	241.6	87.5	84.0	1,701.7	377.2	9.8	6.5	1,701.3	370.7	3.2	5.6	1
2	1,692.3	287.1	29.3	37.0	1,695.2	283.8	62.3	41.0	1,702.1	383.7	10.2	6.7	1,701.1	367.5	3.8	5.4	2
3	1,692.4	288.4	21.7	21.0	1,697.7	316.7	53.6	37.0	1,702.9	395.4	12.8	6.9	1,700.9	364.3	4.1	5.6	3
4	1,692.8	294.0	18.5	15.7	1,699.5	342.8	47.2	34.0	1,703.1	400.5	9.3	6.7	1,700.6	359.7	3.5	5.8	4
5	1,693.9	309.6	24.3	16.4	1,700.5	358.1	40.8	33.0	1,703.7	410.9	12.0	6.7	1,700.4	356.6	4.3	6.3	5
6	1,697.3	361.0	101.9	76.0	1,701.2	369.1	37.6	32.0	1,704.1	417.9	10.2	6.7	1,700.2	353.4	5.0	6.5	6
7	1,694.9	324.2	58.5	77.0	1,701.5	374.0	33.5	31.0	1,704.4	423.2	9.4	6.7	1,700.0	350.3	5.4	6.9	7
8	1,691.5	276.2	52.8	77.0	1,701.4	372.4	29.2	30.0	1,704.6	426.9	8.5	6.7	1,699.7	345.9	4.9	7.1	8
9	1,687.0	219.9	50.6	73.0	1,701.3	370.7	29.2	30.0	1,704.6	426.8	7.8	7.5	1,699.4	341.3	5.2	7.4	9
10	1,682.9	177.7	40.8	62.0	1,701.1	367.5	28.4	30.0	1,704.0	416.1	2.4	7.7	1,699.0	335.3	4.2	7.1	10
11	1,680.8	159.6	33.4	43.0	1,700.5	358.1	25.3	30.0	1,703.9	412.6	6.0	7.7	1,698.7	331.0	5.0	7.1	11
12	1,681.3	163.0	24.4	22.2	1,699.6	344.3	23.1	30.0	1,703.9	414.4	8.6	7.7	1,698.3	325.2	4.3	7.1	12
13	1,683.4	182.5	21.3	11.5	1,698.7	331.0	23.3	30.0	1,703.9	414.4	7.8	7.7	1,697.9	319.5	4.1	6.9	13
14	1,685.0	198.4	19.9	11.9	1,698.6	329.6	20.3	21.0	1,703.9	414.4	7.7	7.7	1,697.6	315.4	5.1	7.1	14
15	1,687.7	228.0	27.3	12.3	1,699.9	348.8	19.8	10.0	1,703.9	414.4	7.8	7.7	1,697.2	309.8	4.2	6.9	15
16	1,689.3	247.5	22.6	12.7	1,701.0	365.9	18.7	10.0	1,703.8	412.6	6.6	7.4	1,696.8	304.4	4.2	6.9	16
17	1,690.4	261.6	20.2	13.0	1,701.9	380.4	17.4	10.0	1,703.7	410.9	6.6	7.4	1,696.4	299.1	4.3	6.9	17
18	1,691.8	280.2	23.2	13.8	1,702.8	395.4	17.3	9.7	1,703.7	410.9	7.5	7.4	1,696.0	293.8	4.5	7.1	18
19	1,693.0	295.9	22.6	14.3	1,702.9	397.1	14.5	13.6	1,703.6	409.2	6.6	7.4	1,695.4	286.3	3.4	7.1	19
20	1,694.3	315.4	23.7	14.3	1,702.2	385.4	11.5	17.4	1,703.4	405.7	5.5	7.1	1,695.2	282.6	5.9	7.1	20
21	1,695.2	328.7	21.0	14.3	1,702.0	382.1	15.7	17.4	1,703.3	404.0	6.1	6.9	1,694.7	277.8	4.0	6.9	21
22	1,695.1	327.2	25.3	25.0	1,701.3	370.7	11.2	16.9	1,703.2	402.3	5.9	6.7	1,694.3	273.2	4.6	6.9	22
23	1,699.3	393.5	109.5	76.0	1,700.2	353.4	7.7	16.4	1,703.0	398.8	5.0	6.7	1,693.8	267.6	4.1	6.9	23
24	1,702.9	456.1	278.6	247.0	1,699.5	342.8	11.1	16.4	1,702.9	397.1	5.7	6.5	1,693.4	263.3	4.8	6.9	24
25	1,690.9	237.6*	1,205.2	1,300.0	1,699.0	335.3	11.7	15.4	1,702.7	393.8	4.7	6.3	1,692.8	256.9	3.8	6.9	25
26	1,699.2	338.3	191.8	131.0	1,699.0	335.3	13.5	13.4	1,702.5	390.4	4.6	6.1	1,692.4	252.3	4.9	6.9	26
27	1,695.9	292.6	128.0	151.0	1,699.3	339.8	10.5	8.1	1,702.3	387.1	4.6	6.1	1,691.9	247.6	4.4	6.9	27
28	1,690.6	234.7	107.8	137.0	1,699.8	347.3	8.9	5.0	1,702.1	383.7	4.1	5.6	1,691.3	241.6	3.9	6.9	28
29					1,700.5	358.1	11.1	5.6	1,701.8	378.9	3.3	5.6	1,690.7	235.7	4.0	6.9	29
30					1,700.9	364.3	9.0	5.8	1,701.6	375.6	3.9	5.4	1,690.1	229.8	3.8	6.7	30
31					1,701.3	370.7	9.6	6.3					1,689.4	223.1	3.2	6.5	31
TOTAL			2732.3	2770.4			760.7	690.4			210.7	205.9			134.5	209.2	
Inf. Ac. Ft.		5,419.4				1,508.9				418.0				266.8		12,854.6	
Outf. Ac. Ft.		5,495.0 + (1.5)				1,369.3 + (3.5)				408.3 + (4.7)				414.9 + (4.4)		12,574.7 + (24.2)	
Mean Daily Inflow		1,205.2				87.4				12.8				5.9		1,205.2	
Maximum Mean Daily Inflow		18.5				7.7				2.3				3.1		0	
Storage Change		- 107.5				+ 136.0				+ 4.6				- 152.5		+ 44.2 *	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,709.3	feet	on	1/25/69	Storage	766.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1,672.7	feet	on	10/1/68	Storage	179.9	Acre Feet	G. M. THRASHER	Dam Tender	Gage Hts. copied	RAP-JSL
Max. Peak Inf.	1,430.	C.F.S. from	11:00 A.M.	on	1/25/69	to	12:00 NOON	on	1/25/69	J. A. SINGER	Hydrographer	Storage applied	RAP-JSL
Max. Peak Outf.	1,400.	C.F.S. from	11:00 A.M.	on	1/25/69	to	3:00 P.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

* 62.6 ACRE-FOOT LOSS DUE TO SILTATION, CHANGE TO STORAGE TABLE XIV, 2/25/69. (240.0 ACRE-FOOT TOTAL LOSS DUE TO SILTATION.)

76D138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

In Big Dalton Canyon for the Year Ending September 30, 1969

Drainage Area 4.49 Square Miles. Capacity of Reservoir 452.0 / 514.6 / 692.0 Ac. Ft. at Spillway Elev. 1,706.0 Ft. as of March 1969 / January 1969 / April 1967

Continuous Water Stage Recorder Au or Bristol

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,688.8	217.3	3.5	6.3	1,691.8	246.6	2.1	1.5	1,689.2	221.1	1.4	1.3	1,686.4	195.0	0.6	1.0	1
2	1,688.1	210.7	2.8	6.1	1,691.8	246.6	1.6	1.5	1,689.1	220.2	0.9	1.3	1,686.3	194.1	0	0.4	2
3	1,687.5	205.1	3.1	5.9	1,691.9	247.6	2.1	1.5	1,689.1	220.2	1.4	1.3	1,686.6	196.8	1.6	0.1	3
4	1,686.8	198.7	2.6	5.8	1,691.9	247.6	1.6	1.5	1,689.0	219.2	0.9	1.2	1,686.9	199.6	1.6	0.1	4
5	1,686.7	197.7	5.3	5.7	1,692.0	248.6	2.1	1.5	1,689.0	219.2	1.3	1.2	1,687.1	201.4	1.1	0.1	5
6	1,687.0	200.5	7.1	5.7	1,692.0	248.6	1.7	1.6	1,688.9	218.3	0.8	1.2	1,687.2	202.3	0.6	0.1	6
7	1,687.2	202.3	6.7	5.7	1,692.0	248.6	1.6	1.6	1,688.8	217.3	0.8	1.2	1,687.4	204.2	1.1	0.1	7
8	1,687.5	205.1	7.1	5.7	1,692.1	249.7	2.2	1.6	1,688.7	216.4	0.8	1.1	1,687.5	205.1	1.5	1.0	8
9	1,687.8	207.9	5.3	3.8	1,692.1	249.7	1.7	1.6	1,688.6	215.4	0.7	1.1	1,687.4	204.2	1.6	2.0	9
10	1,688.0	209.8	2.7	1.7	1,692.2	250.7	2.2	1.6	1,688.6	215.4	1.2	1.1	1,687.3	203.3	1.7	2.0	10
11	1,688.4	213.5	3.6	1.7	1,692.2	250.7	1.7	1.6	1,688.5	214.5	0.7	1.1	1,687.1	201.4	1.3	2.1	11
12	1,688.7	216.4	3.2	1.7	1,692.2	250.7	1.6	1.5	1,688.4	213.5	0.7	1.1	1,687.0	200.5	1.5	1.9	12
13	1,688.9	218.3	2.7	1.7	1,692.2	250.7	1.5	1.5	1,688.3	212.6	0.7	1.1	1,686.8	198.7	1.0	1.8	13
14	1,689.2	221.1	3.2	1.7	1,692.3	251.7	2.1	1.5	1,688.2	211.7	0.7	1.1	1,686.7	197.7	1.5	1.9	14
15	1,689.4	223.1	2.7	1.7	1,692.3	251.7	1.5	1.4	1,688.1	210.7	0.7	1.1	1,686.6	196.8	1.1	1.5	15
16	1,689.6	225.0	2.6	1.6	1,692.2	250.7	1.0	1.4	1,688.0	209.8	0.7	1.1	1,686.5	195.9	0.5	0.9	16
17	1,689.8	226.9	2.6	1.6	1,692.2	250.7	1.5	1.4	1,687.9	208.8	0.7	1.1	1,686.4	195.0	0.4	0.8	17
18	1,690.0	228.8	2.6	1.6	1,692.2	250.7	1.5	1.4	1,687.8	207.9	0.8	1.2	1,686.3	194.1	0.4	0.8	18
19	1,690.2	230.8	2.7	1.6	1,692.1	249.7	1.0	1.4	1,687.7	207.0	0.8	1.2	1,686.1	192.3	0	0.9	19
20	1,690.4	232.7	2.6	1.6	1,692.1	249.7	1.5	1.4	1,687.6	206.1	0.9	1.2	1,686.0	191.4	0.5	0.9	20
21	1,690.6	234.7	2.6	1.6	1,692.1	249.7	1.5	1.4	1,687.5	205.1	0.9	1.2	1,685.9	190.5	0.5	0.9	21
22	1,690.7	235.7	2.0	1.5	1,691.8	246.6	1.2	2.6	1,687.4	204.2	0.9	1.2	1,685.8	189.5	0.6	1.0	22
23	1,690.9	237.6	2.5	1.5	1,691.5	243.6	2.2	3.6	1,687.3	203.3	0.9	1.2	1,685.7	188.7	0.7	1.1	23
24	1,691.0	238.6	2.0	1.5	1,691.1	239.6	1.6	3.5	1,687.2	202.3	0.7	1.1	1,685.6	187.8	0.7	1.1	24
25	1,691.2	240.6	2.5	1.5	1,690.7	235.7	1.8	3.7	1,687.1	201.4	0.7	1.1	1,685.4	185.9	0.3	1.2	25
26	1,691.3	241.6	2.0	1.5	1,690.2	230.8	1.1	3.5	1,687.0	200.5	0.7	1.1	1,685.3	185.1	0.8	1.2	26
27	1,691.4	242.6	2.1	1.5	1,689.8	226.9	1.5	3.4	1,686.9	199.6	0.7	1.1	1,685.2	184.1	0.9	1.3	27
28	1,691.5	243.6	2.1	1.5	1,689.4	223.1	1.5	3.4	1,686.8	198.7	0.6	1.0	1,685.1	183.3	0.9	1.3	28
29	1,691.6	244.6	2.1	1.5	1,689.3	222.1	1.6	2.0	1,686.7	197.7	0.6	1.0	1,684.9	181.5	0.7	1.5	29
30	1,691.7	245.6	2.1	1.5	1,689.2	221.1	1.0	1.3	1,686.6	196.8	0.6	1.0	1,684.8	180.6	1.1	1.5	30
31					1,689.2	221.1	1.4	1.3	1,686.5	195.9	0.6	1.0					31
TOTAL			96.9	84.0			50.2	59.7			25.8	35.5			27.1	32.5	
Inf. Ac. Ft.		192.2				99.5				51.1				59.7		13,251.1	
Outf. Ac. Ft.		166.6 + (3.0)				118.4 + (5.6)				70.4 + (5.9)				64.4 + (4.6)		12,994.5 + (43.3)	
Mean Daily Inflow		7.1				2.2				1.4				1.6		1,205.2	
Maximum Mean Daily Inflow		2.0				0.9				0.6				0		0	
Storage Change		+ 22.5				- 24.4				- 25.2				- 15.2		+ 1.7 *	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,709.3	feet	on	1/25/69	Storage	766.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1,672.7	feet	on	10/1/68	Storage	179.9	Acre Feet	G. M. THRASHER	Dam Tender	Gage Hts. copied	RAP-JSL
Max. Peak Inf.	1,430.	C.F.S. from	11:00 A.M.	on	1/25/69	to	12:00 NOON	on	1/25/69	J. A. SINGER	Hydrographer	Storage applied	RAP-JSL
Max. Peak Outf.	1,400.	C.F.S. from	11:00 A.M.	on	1/25/69	to	3:00 P.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

* 240.0 ACRE-FOOT TOTAL LOSS DUE TO SILTATION.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

In San Dimas Canyon for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1,129.1 Ac. Ft. at Spillway Elev. 1,462.0 Ft. as of April 19 67 Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C. F. S. Inflow	OCTOBER C. F. S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C. F. S. Inflow	NOVEMBER C. F. S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C. F. S. Inflow	DECEMBER C. F. S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C. F. S. Inflow	JANUARY C. F. S. Outflow	Day
1	1448.5	702.9	2.7	8.4	1444.4	595.0	3.9	14.0	1430.2	315.4	10.5	9.1	1425.7	256.6	5.9	4.7	1
2	1448.3	697.3	5.5	8.4	1442.5	549.9	4.2	27.0	1430.2	315.4	8.4	8.4	1425.7	256.6	5.8	5.8	2
3	1448.1	691.7	5.5	8.4	1439.6	486.2	5.9	38.0	1430.1	314.0	7.6	8.4	1424.7	244.3	5.9	12.2	3
4	1447.7	680.8	4.6	10.2	1438.5	404.9	4.0	45.0	1430.0	312.6	7.2	8.0	1423.1	225.0	5.5	15.3	4
5	1447.4	672.6	6.5	10.7	1430.9	325.4	4.9	45.0	1429.9	311.2	7.0	7.7	1421.8	209.8	6.1	13.8	5
6	1447.0	661.8	5.2	10.7	1427.5	279.5	6.8	30.0	1430.0	312.6	7.2	6.6	1420.8	198.4	5.8	11.6	6
7	1446.5	648.6	4.0	10.7	1426.1	261.6	5.1	14.2	1429.7	308.5	6.3	8.4	1420.6	196.2	6.2	7.4	7
8	1446.1	639.0	5.3	10.7	1425.8	257.9	3.8	14.2	1429.0	299.2	5.9	10.7	1420.4	193.9	5.1	6.3	8
9	1445.7	627.7	4.9	10.2	1423.5	229.8	5.7	13.3	1428.3	289.9	4.7	9.4	1420.0	189.5	4.7	7.0	9
10	1445.3	617.4	5.0	10.2	1422.3	215.6	5.2	12.4	1427.7	282.1	5.1	9.1	1419.2	180.7	4.9	9.4	10
11	1444.9	607.3	5.0	10.2	1421.5	206.4	5.5	10.2	1427.1	274.3	5.1	9.1	1419.2	180.7	5.3	5.3	11
12	1444.5	597.5	4.8	9.8	1420.8	198.4	3.9	8.0	1426.5	266.7	4.9	8.8	1419.4	182.9	5.2	4.1	12
13	1444.1	587.6	4.8	9.8	1420.3	192.8	4.1	7.0	1426.2	262.9	5.7	7.7	1419.8	186.3	7.7	11.1	13
14	1443.6	575.6	3.7	9.8	1419.8	187.3	3.7	6.6	1425.8	257.9	4.8	7.4	1417.8	165.6	1.5	7.0	14
15	1443.2	566.1	5.0	9.8	1419.5	184.0	4.6	6.3	1425.5	254.2	5.5	7.4	1417.6	163.5	4.7	5.8	15
16	1442.7	554.5	3.5	9.4	1419.1	179.6	3.7	6.0	1425.2	250.4	5.1	7.0	1417.4	161.4	4.7	5.3	16
17	1442.2	543.0	3.7	9.5	1418.9	177.4	4.7	5.8	1425.2	250.4	6.0	6.0	1417.1	158.2	3.9	8.5	17
18	1441.8	533.9	4.5	9.1	1418.7	175.2	4.7	5.3	1426.4	265.4	13.0	5.5	1416.9	156.1	3.9	5.0	18
19	1441.5	527.3	2.9	6.3	1430.7	322.6	79.7	5.5	1427.5	279.5	12.5	5.5	1416.8	155.1	4.4	5.0	19
20	1441.8	533.9	3.5	0.2	1431.5	334.8	18.1	12.0	1427.3	276.9	8.8	10.2	1415.6	153.1	3.9	5.0	20
21	1442.2	543.0	4.7	0.2	1432.0	342.7	23.9	20.0	1426.7	269.2	8.1	12.0	1416.5	152.1	4.4	5.0	21
22	1442.5	549.9	3.6	0.2	1431.4	333.2	12.5	17.3	1426.4	265.4	7.1	9.1	1416.4	151.0	4.1	4.7	22
23	1442.8	556.8	3.6	0.2	1431.1	328.4	9.2	11.6	1426.1	261.6	6.8	9.8	1417.0	157.2	4.6	1.6	23
24	1443.1	563.7	3.7	0.2	1430.8	324.0	8.4	10.7	1425.8	257.9	6.5	9.4	1417.6	163.5	4.4	1.3	24
25	1443.4	570.9	3.7	0.2	1430.5	319.7	8.0	10.2	1425.7	256.6	6.7	7.4	1417.7	164.5	4.0	3.5	25
26	1443.7	578.0	3.7	0.2	1430.0	312.6	6.5	10.2	1425.6	255.4	5.9	6.6	1417.9	166.6	4.5	3.5	26
27	1444.0	585.2	3.7	0.2	1429.7	308.5	7.7	9.8	1425.5	254.2	5.9	6.6	1418.9	177.4	9.1	3.7	27
28	1444.3	592.5	3.9	0.2	1429.4	304.5	7.3	9.4	1425.4	252.9	5.3	6.0	1419.4	182.9	6.2	3.5	28
29	1444.6	599.9	3.9	0.2	1429.1	300.5	7.0	9.1	1425.4	252.9	5.8	5.8	1419.6	185.1	4.6	3.5	29
30	1444.9	607.3	3.9	0.2	1430.0	312.6	15.4	9.4	1425.4	252.9	5.5	5.5	1418.8	176.3	4.8	9.3	30
31	1445.2	614.9	4.0	0.2					1425.5	254.2	5.6	5.0	1417.7	164.5	5.6	11.6	31
TOTAL			134.7	184.7			291.5	444.0			212.1	241.6			159.1	204.5	
Inf. Ac. Ft.		267.2				578.3				420.8				315.5		1,581.8	
Outf. Ac. Ft.		366.3				880.6				474.2				405.2		2,131.3	
Maximum Mean Daily Inflow		6.5				79.7				13.0				9.1		79.7	
Minimum Mean Daily Inflow		2.7				3.7				4.7				1.5		1.5	
Storage Change		− 99.1				− 302.3				− 58.4				− 89.6		− 549.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,452.0	feet	on	9/30/68	Storage	804.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,416.0	feet	on	2/2/68	Storage	147.0	Acre Feet	B. R. MC CARTY	Dam Tender	Gage Hts. copied	RAP JSL	
Max. Peak Inf.	413.5	C. F. S. from		2:00 P.M. on	11/19/67	to	4:00 P.M. on	11/19/67	R. I. SARASUA	Hydrographer	Storage applied	RAP JSL
Max. Peak Outf.	47.3	C. F. S. from		12:00 NOON on	11/3/67	to	1:00 P.M. on	11/6/67		Hydrographer	Inf. & Outf. comp.	RAP JSL

REMARKS (INDICATES AVERAGE FOR PERIOD

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

In San Dimas Canyon for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1,129.1 Ac. Ft. at Spillway Elev. 1,462.0 Ft. as of April 19 47 Gage Heights Read Daily

Day	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C. F. S. Inflow	FEBRUARY C. F. S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C. F. S. Inflow	MARCH C. F. S. Outflow	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C. F. S. Inflow	APRIL C. F. S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C. F. S. Inflow	MAY C. F. S. Outflow	Day
1	1416.5	152.1	4.8	11.1	1418.1	168.7	5.3	3.2	1432.1	344.3	8.9	0.1	1443.3	568.5	2.4	0.1	1
2	1416.0	147.0	5.0	7.6	1418.4	172.0	4.8	3.2	1433.0	359.6	7.7	0.1	1443.6	575.6	3.6	0.1	2
3	1416.4	151.0	5.5	3.5	1418.6	174.1	4.2	3.2	1433.6	370.1	5.4	0.1	1443.9	582.8	3.6	0.1	3
4	1416.8	155.1	5.5	3.5	1418.8	176.3	4.2	3.2	1434.1	379.0	4.5	0.1	1444.1	587.6	2.5	0.1	4
5	1417.1	158.2	4.8	3.3	1419.0	178.5	4.2	3.2	1434.6	388.1	4.7	0.1	1444.4	595.0	3.8	0.1	5
6	1417.5	162.4	5.1	3.0	1419.4	182.9	5.4	3.2	1435.0	395.5	3.7	0.1	1444.6	599.9	2.5	0.1	6
7	1417.8	165.6	4.3	2.8	1420.3	192.8	9.3	3.3	1435.5	404.9	4.8	0.1	1444.9	607.3	3.8	0.1	7
8	1418.2	169.8	4.7	2.6	1427.6	280.8	47.9	3.6	1435.9	412.5	3.9	0.1	1445.1	612.3	2.6	0.1	8
9	1418.8	176.3	6.0	2.8	1427.1	274.3	5.6	8.9	1436.3	420.1	3.9	0.1	1445.3	617.4	2.6	0.1	9
10	1419.3	181.8	5.5	2.8	1427.5	279.5	15.9	13.3	1436.7	427.9	3.9	0.1	1445.6	625.1	3.9	0.1	10
11	1419.8	187.3	5.5	2.8	1426.6	268.0	7.4	13.3	1437.1	435.6	4.0	0.1	1445.8	630.2	2.6	0.1	11
12	1420.2	191.7	5.0	2.8	1425.7	256.6	7.5	13.3	1437.5	443.5	4.0	0.1	1446.1	638.0	4.0	0.1	12
13	1421.7	208.6	11.3	2.8	1425.1	249.2	8.0	11.8	1437.8	449.4	3.0	0.1	1445.8	630.2	5.0	9.0	13
14	1422.7	220.2	11.9	6.1	1425.0	248.0	7.7	8.4	1438.2	457.4	4.1	0.1	1445.1	612.3	5.1	14.2	14
15	1422.2	214.4	7.7	10.7	1424.9	246.7	7.0	7.7	1438.5	463.5	3.1	0.1	1444.5	597.5	5.8	13.3	15
16	1421.5	206.4	6.6	10.7	1424.9	246.7	7.0	7.0	1438.9	471.6	4.1	0.1	1443.8	580.4	4.2	12.9	16
17	1420.9	199.5	6.3	9.8	1425.0	248.0	7.6	7.0	1439.3	479.9	4.2	0.1	1443.1	563.7	4.9	13.3	17
18	1420.5	195.1	6.5	8.8	1424.9	246.7	6.3	7.0	1439.6	486.2	3.2	0.1	1442.4	547.6	5.1	13.5	18
19	1420.0	189.5	5.5	8.4	1424.8	245.5	6.3	7.0	1440.0	494.6	4.3	0.1	1441.6	529.5	3.2	12.4	19
20	1419.5	184.0	5.2	8.0	1424.6	243.1	5.3	6.6	1440.4	503.2	4.4	0.1	1440.9	514.0	4.1	12.1	20
21	1419.1	179.6	5.7	8.0	1424.5	241.9	5.9	6.6	1440.7	509.7	3.3	0.1	1440.2	498.9	4.3	12.0	21
22	1418.6	174.1	5.2	8.0	1424.8	245.5	5.6	5.8	1441.0	516.2	3.3	0.1	1439.5	484.1	4.5	12.0	22
23	1418.0	167.7	4.7	8.0	1425.6	255.4	5.0	0.1	1441.2	520.6	2.3	0.1	1439.1	475.7	3.8	9.1	23
24	1417.4	161.4	4.8	8.0	1426.4	265.4	3.1	0.1	1441.5	527.3	3.4	0.1	1439.4	482.0	3.2	0.1	24
25	1416.7	154.1	4.3	9.0	1427.2	275.6	5.2	0.1	1441.8	533.9	3.4	0.1	1439.6	486.2	2.2	0.1	25
26	1416.6	153.1	5.0	5.6	1427.9	284.7	4.6	0.1	1442.1	540.7	3.4	0.1	1439.9	492.5	3.2	0.1	26
27	1417.1	158.2	5.7	3.2	1428.6	293.9	4.7	0.1	1442.4	547.6	3.5	0.1	1440.0	494.6	1.1	0.1	27
28	1417.5	162.4	5.3	3.2	1429.2	301.8	4.1	0.1	1442.6	552.2	2.4	0.1	1440.2	498.9	2.2	0.1	28
29	1417.7	164.5	4.2	3.2	1429.8	309.9	4.1	0.1	1442.9	559.1	3.5	0.1	1440.5	505.4	3.3	0.1	29
30				169.1	1430.4	318.3	4.3	0.1	1443.1	563.7	2.4	0.1	1440.7	509.7	2.2	0.1	30
31					1431.0	325.9	4.4	0.1					1440.9	514.0	2.2	0.1	31
TOTAL			169.0	169.1			230.5	148.7			122.4	3.0			109.4	134.5	
Inf. Ac. Ft.		335.4				457.2				242.8				217.0		2,834.2	
Outf. Ac. Ft.		335.4				294.9				5.9				266.7		3,094.2	
Maximum Mean Daily Inflow		11.9				47.9				8.9				5.8		79.7	
Minimum Mean Daily Inflow		4.2				4.1				2.3				1.1		1.1	
Storage Change		0				+ 162.3				+ 236.8				− 49.7		− 200.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,452.0	feet	on	9/30/68	Storage	804.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,416.0	feet	on	2/2/68	Storage	147.0	Acre Feet	B. R. MC CARTY	Dam Tender	Gage Hts. copied	RAP JSL	
Max. Peak Inf.	413.5	C. F. S. from		2:00 P.M. on	11/19/67	to	4:00 P.M. on	11/19/67	R. I. SARASUA	Hydrographer	Storage applied	RAP JSL
Max. Peak Outf.	47.3	C. F. S. from		12:00 NOON on	11/3/67	to	1:00 P.M. on	11/6/67		Hydrographer	Inf. & Outf. comp.	RAP JSL

REMARKS (INDICATES AVERAGE FOR PERIOD

7601389-688 3-64

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

In San Dimas Canyon for the Year Ending September 30, 1968

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1,129.1 Ac. Ft. at Spillway Elev. 1,462.0 Ft. as of April 1967 Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1,441.1	518.4	2.3	0.1	1,445.7	627.7	1.3	0.1	1,448.4	700.1	1.0	0.1	1,450.4	756.9	0.9	0.1	1
2	1,441.2	520.6	1.2	0.1	1,445.9	623.8	2.6	0.1	1,448.5	702.9	1.0	0.1	1,450.4	756.9	0.9	0.1	2
3	1,441.4	525.0	2.3	0.1	1,446.0	635.4	1.3	0.1	1,448.6	705.6	1.0	0.1	1,450.5	756.8	0.9	0.1	3
4	1,441.5	527.3	1.2	0.1	1,446.1	638.0	1.4	0.1	1,448.6	705.6	1.0	0.1	1,450.6	762.7	0.9	0.1	4
5	1,441.7	531.7	2.3	0.1	1,446.2	640.6	1.4	0.1	1,448.7	708.4	1.0	0.1	1,450.6	762.7	0.9	0.1	5
6	1,441.8	533.9	1.2	0.1	1,446.3	643.3	1.4	0.1	1,448.8	711.2	1.0	0.1	1,450.7	765.6	0.9	0.1	6
7	1,442.1	540.7	3.4	0.1	1,446.4	645.9	1.4	0.1	1,448.8	711.2	1.0	0.1	1,450.7	765.6	0.9	0.1	7
8	1,442.4	547.6	3.5	0.1	1,446.5	648.6	1.4	0.1	1,448.9	714.0	1.0	0.1	1,450.8	768.5	0.9	0.1	8
9	1,442.7	554.5	3.5	0.1	1,446.6	651.2	1.4	0.1	1,448.9	714.0	1.0	0.1	1,450.8	768.5	0.9	0.1	9
10	1,442.9	559.1	2.4	0.1	1,446.7	653.8	1.4	0.1	1,449.0	716.8	1.0	0.1	1,450.8	768.5	0.9	0.1	10
11	1,443.0	561.4	1.2	0.1	1,446.8	656.5	1.4	0.1	1,449.0	716.8	1.0	0.1	1,450.9	771.4	0.9	0.1	11
12	1,443.2	566.1	2.4	0.1	1,446.9	659.1	1.4	0.1	1,449.1	719.6	1.0	0.1	1,451.0	774.4	0.9	0.1	12
13	1,443.4	570.9	2.4	0.1	1,447.0	661.8	1.4	0.1	1,449.1	719.6	1.0	0.1	1,451.0	774.4	0.9	0.1	13
14	1,443.5	573.3	1.2	0.1	1,447.0	661.8	0.1	0.1	1,449.2	722.5	1.0	0.1	1,451.6	792.2	0.9	0.1	14
15	1,443.7	578.0	2.4	0.1	1,447.1	664.5	1.4	0.1	1,449.3	725.3	1.0	0.1	1,451.2	780.3	0.9	0.1	15
16	1,443.8	580.4	1.2	0.1	1,447.2	667.2	1.4	0.1	1,449.4	728.2	1.0	0.1	1,451.2	780.3	0.9	0.1	16
17	1,443.9	582.8	1.2	0.1	1,447.3	669.9	1.4	0.1	1,449.5	731.0	1.0	0.1	1,451.3	783.3	0.9	0.1	17
18	1,444.1	587.6	2.5	0.1	1,447.4	672.6	1.4	0.1	1,449.6	733.9	1.0	0.1	1,451.3	783.3	0.9	0.1	18
19	1,444.2	590.1	1.3	0.1	1,447.4	672.6	0.1	0.1	1,449.6	733.9	1.0	0.1	1,451.4	786.2	1.0	0.1	19
20	1,444.3	592.5	1.3	0.1	1,447.5	675.4	1.4	0.1	1,449.7	736.7	1.0	0.1	1,451.5	789.2	1.0	0.1	20
21	1,444.4	595.0	1.3	0.1	1,447.6	678.1	1.4	0.1	1,449.8	739.6	1.0	0.1	1,451.5	789.2	1.0	0.1	21
22	1,444.6	599.9	2.5	0.1	1,447.6	678.1	0.1	0.1	1,449.9	742.4	1.0	0.1	1,451.6	792.2	1.0	0.1	22
23	1,444.7	602.4	1.3	0.1	1,447.7	680.8	1.4	0.1	1,449.9	742.4	1.0	0.1	1,451.6	792.2	1.0	0.1	23
24	1,444.8	604.8	1.3	0.1	1,447.8	683.5	1.4	0.1	1,450.0	745.3	1.0	0.1	1,451.7	795.1	1.0	0.1	24
25	1,445.0	609.8	2.5	0.1	1,447.8	683.5	0.1	0.1	1,450.0	745.3	1.0	0.1	1,451.7	795.1	1.0	0.1	25
26	1,445.1	612.3	1.3	0.1	1,447.9	686.2	1.4	0.1	1,450.1	748.2	1.1	0.1	1,451.8	798.1	1.0	0.1	26
27	1,445.2	614.9	1.3	0.1	1,448.0	689.0	1.4	0.1	1,450.2	751.1	1.1	0.1	1,451.8	798.1	1.0	0.1	27
28	1,445.3	617.4	1.3	0.1	1,448.1	691.7	1.5	0.1	1,450.2	751.1	1.1	0.1	1,451.9	801.1	1.0	0.1	28
29	1,445.5	622.6	2.6	0.1	1,448.2	694.5	1.5	0.1	1,450.2	751.1	1.1	0.1	1,451.9	801.1	1.0	0.1	29
30	1,445.6	625.1	1.3	0.1	1,448.3	697.3	1.5	0.1	1,450.3	754.0	1.1	0.1	1,452.0	804.1	1.0	0.1	30
31					1,448.3	697.3	0.1	0.1	1,450.3	754.0	1.1	0.1					31
TOTAL			59.0	3.0			39.4	3.1			36.1	3.1			28.2	3.0	
Inf. Ac. Ft.		117.0				78.3				62.8				56.0		3,148.3	
Outf. Ac. Ft.		5.9				6.1				6.1				5.9		3,056.2	
Maximum Mean Daily Inflow		3.5				2.6				1.1				1.0		79.7	
Minimum Mean Daily Inflow		1.2				0.1				1.0				0.9		0.1	
Storage Change		+ 111.1				+ 72.1				55.6				+ 50.0		+ 90.1	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,452.0	feet	on	9/30/68	Storage	804.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,416.0	feet	on	2/2/68	Storage	147.0	Acre Feet	B. R. MC CARTY	Dam Tender	Gage Hts. copied	RAP JSL	
Max. Peak Inf.	413.5	C.F.S. from	2:00 P.M.	on	11/19/67	to	4:00 P.M.	on	11/19/67	R. I. SARASUA	Hydrographer	Storage applied	RAP JSL
Max. Peak Outf.	47.9	C.F.S. from	12:00NOON	on	11/3/67	to	1:00 P.M.	on	11/6/67		Hydrographer	Inf. & Outf. comp.	RAP JSL

REMARKS (INDICATES AVERAGE FOR PERIOD

7601389-688 3-64

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

In San Dimas Canyon for the Year Ending September 30, 1969

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 846.8 / 1,129.1 Ac. Ft. at Spillway Elev. 1,462.0 Ft. as of February 1969 / April 1967 Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	1,452.0	804.1	1.6	0.1	1,431.4	333.2	1.1	17.9	1,438.1	1,344.4	1.6	0	1,438.5	463.5	2.0	0	1
2	1,452.1	807.1	1.6	0.1	1,429.4	304.6	2.9	17.4	1,432.3	347.8	1.7	0	1,438.6	465.6	1.0	0	2
3	1,452.2	810.1	1.6	0.1	1,427.0	273.1	1.0	16.9	1,432.5	351.1	1.7	0	1,438.8	469.6	2.0	0	3
4	1,452.3	813.2	1.6	0.1	1,425.6	255.4	2.5	11.4	1,432.8	356.2	2.5	0	1,439.0	473.7	2.0	0	4
5	1,452.4	816.2	1.6	0.1	1,425.8	257.9	1.3	0.1	1,432.9	357.9	0.9	0	1,439.1	475.8	1.0	0	5
6	1,452.5	819.2	1.6	0.1	1,426.2	262.9	2.6	0.1	1,433.0	359.6	0.9	0	1,438.5	463.5	1.1	7.3	6
7	1,452.6	822.2	1.6	0.1	1,426.4	265.5	1.4	0.1	1,433.2	363.1	1.8	0	1,437.6	445.5	1.9	11.0	7
8	1,452.7	825.2	1.6	0.1	1,426.6	268.0	1.4	0.1	1,433.4	366.6	1.8	0	1,436.6	426.0	1.2	11.1	8
9	1,452.8	828.3	1.6	0.1	1,426.9	271.8	2.0	0.1	1,433.5	368.4	0.9	0	1,435.4	403.1	2.6	14.2	9
10	1,452.8	828.3	1.6	0.1	1,427.0	273.1	0.7	0.1	1,433.7	371.9	1.8	0	1,434.2	380.9	1.8	13.0	10
11	1,452.9	831.3	1.6	0.1	1,427.3	277.0	2.1	0.1	1,433.9	375.4	1.8	0	1,432.6	352.8	1.1	15.2	11
12	1,453.0	834.3	1.6	0.1	1,427.5	279.5	1.4	0.1	1,434.1	379.0	1.8	0	1,430.8	324.0	2.7	17.2	12
13	1,453.1	837.4	1.6	0.1	1,427.8	283.4	2.1	0.1	1,434.3	382.7	1.8	0	1,429.1	300.5	6.5	18.4	13
14	1,453.2	840.4	1.6	0.1	1,428.1	287.3	2.1	0.1	1,434.5	386.3	1.8	0	1,428.1	287.3	10.7	17.4	14
15	1,453.2	843.5	1.6	0.1	1,428.6	293.9	3.4	0.1	1,434.7	390.0	1.8	0	1,426.4	265.5	3.7	14.7	15
16	1,453.3	843.5	1.6	0.1	1,428.9	297.9	2.1	0.1	1,434.9	393.7	1.8	0	1,425.6	255.4	3.1	8.2	16
17	1,453.4	846.6	1.6	8.2	1,429.2	301.9	2.1	0.1	1,435.1	397.4	1.9	0	1,426.1	261.7	3.6	9.5	17
18	1,452.9	831.3	1.6	14.2	1,429.5	305.9	2.1	0.1	1,435.3	401.2	1.9	0	1,426.7	269.3	4.4	9.6	18
19	1,452.0	804.1	1.6	14.7	1,429.7	308.6	1.5	0.1	1,435.5	405.0	1.9	0	1,428.2	288.6	10.5	0.7	19
20	1,450.1	748.2	1.6	14.7	1,429.9	311.3	1.5	0.1	1,435.7	408.7	1.9	0	1,433.8	373.7	47.5	4.6	20
21	1,449.9	714.0	1.6	18.0	1,430.1	314.0	1.5	0.1	1,435.9	412.5	1.9	0	1,449.4	700.1	191.6	27.0	21
22	1,447.6	678.1	1.6	21.0	1,430.4	318.3	2.3	0.1	1,436.1	416.3	1.9	0	1,454.0	865.0	283.1	200.0	22
23	1,446.3	643.3	1.6	21.0	1,430.5	319.7	0.8	0.1	1,436.2	418.3	1.0	0	1,435.4	403.1	56.1	289.0	23
24	1,444.9	607.3	1.6	21.0	1,430.7	322.6	1.5	0.1	1,436.4	422.1	1.9	0	1,432.0	342.7	122.6	153.0	24
25	1,443.4	570.9	1.6	20.0	1,431.0	326.9	2.3	0.1	1,436.8	429.8	3.9	0	1,430.6	157.1(1)	1,713.1	1,724.0	25
26	1,441.8	534.0	1.6	20.0	1,431.1	328.5	0.9	0.1	1,437.3	439.6	4.9	0	1,452.8	563.1	702.7	499.0	26
27	1,440.3	501.1	1.6	20.0	1,431.3	331.6	1.7	0.1	1,437.5	443.5	2.0	0	1,444.2	351.1	338.1	445.0	27
28	1,438.7	467.6	1.6	19.0	1,431.5	334.8	1.7	0.1	1,437.7	447.5	2.0	0	1,449.3	470.4	160.1	100.0	28
29	1,437.0	433.7	1.5	19.0	1,431.7	338.0	1.7	0.1	1,437.9	451.4	2.0	0	1,451.1	517.0	123.5	100.0	29
30	1,435.2	401.2	1.5	19.0	1,431.9	341.1	1.7	0.1	1,438.1	455.4	2.0	0	1,452.5	554.9	113.1	94.0	30
31	1,433.4	366.6	1.5	18.5					1,438.3	459.5	2.0	0	1,452.8	563.1	84.9	90.7	31
TOTAL			49.3	269.9			53.3	66.2			59.6	0			3,999.8	3,864.8	
Inf. Ac. Ft.		97.8				105.7				118.3				7,933.5		8,255.3	
Outf. Ac. Ft.		535.3				131.3				0				7,665.7		8,332.9	
Maximum Mean Daily Inflow		1.6				3.4				4.9				1,713.1		1,713.1	
Minimum Mean Daily Inflow		1.5				0.7				0.8				1.0		0.7	
Storage Change		- 437.4				- 25.5				+ 118.3				+ 103.6		- 240.9 (1)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,470.2	feet	on	1/25/69	Storage	1,440.7	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,425.6	feet	on	11/4/68	Storage	255.4	Acre Feet	B.R. MC CARTY	Dam Tender	Gage Hts. copied	GF JSL	
Max. Peak Inf.	3,752.0	C.F.S. from	10:00 A.M.	on	1/25/69	to	11:00 A.M.	on	1/25/69	R.S. SARASUA	Hydrographer	Storage applied	GF JSL
Max. Peak Outf.	3,340.0	C.F.S. from	10:00 A.M.	on	1/25/69	to	11:00 A.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	GF JSL

REMARKS (1) 164.2 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XVI ON 1/25/69. SURVEY OF FEBRUARY, 1969.

(INDICATES AVERAGE FOR PERIOD.

760139N-685 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

In San Dimas Canyon for the Year Ending September 30, 1969

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1,129.1 Ac. Ft. at Spillway Elev. 1,462.0 Ft. as of April 1967
756.5 March 1969
846.8 February 1969

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1452.7	560.4	65.6	67.0	1457.8	635.1	214.0	149.0	1460.8	720.5	41.5	40.0	1461.3	735.4	27.0	24.0	1
2	1453.0	568.7	65.2	61.0	1459.8	691.5	190.3	162.0	1461.0	726.4	42.0	39.0	1461.5	741.5	26.0	23.0	2
3	1453.0	568.7	61.0	61.0	1459.5	654.5	181.4	200.0	1461.4	738.4	46.1	40.0	1461.8	750.5	29.5	25.0	3
4	1452.7	560.4	56.8	61.0	1458.5	654.5	144.0	144.0	1461.1	729.4	38.4	43.0	1461.7	747.5	26.5	28.0	4
5	1452.2	546.6	65.1	72.0	1458.2	646.1	128.8	133.0	1461.0	726.4	41.5	43.0	1461.5	741.5	26.0	29.0	5
6	1455.9	683.4	213.9	145.0	1457.5	627.0	124.3	134.0	1460.7	717.6	38.6	43.0	1461.5	741.5	27.0	27.0	6
7	1451.8	535.8	119.6	194.0	1458.3	648.9	120.1	109.0	1460.6	714.7	35.5	37.0	1461.6	744.5	26.5	25.0	7
8	1444.4	355.3	93.0	184.0	1458.5	654.5	111.8	109.0	1461.0	726.4	35.9	30.0	1461.7	747.5	26.5	25.0	8
9	1439.4	268.2	84.1	128.0	1458.3	648.9	106.2	109.0	1461.3	735.4	37.5	33.0	1461.6	744.5	23.5	25.0	9
10	1440.2	280.9	76.4	70.0	1458.4	651.7	110.4	109.0	1461.1	729.4	40.0	43.0	1461.5	741.5	23.5	25.0	10
11	1442.1	312.3	69.8	54.0	1457.8	635.1	95.6	104.0	1460.8	720.5	38.5	43.0	1461.4	738.4	23.5	25.0	11
12	1443.4	335.7	65.8	54.0	1457.1	616.1	90.4	100.0	1460.5	711.7	38.6	43.0	1461.2	732.4	22.0	25.0	12
13	1444.2	351.1	61.8	54.0	1456.2	592.1	87.9	100.0	1460.1	700.0	37.1	43.0	1461.0	726.4	22.0	25.0	13
14	1444.6	359.4	58.2	54.0	1456.4	597.5	83.7	81.0	1460.0	697.1	37.5	39.0	1460.9	723.5	23.5	25.0	14
15	1446.3	397.2	73.0	54.0	1457.8	635.1	72.0	53.0	1460.3	705.9	32.4	28.0	1460.7	717.6	22.0	25.0	15
16	1447.1	416.1	63.5	54.0	1459.0	668.4	69.8	53.0	1460.6	714.7	32.4	28.0	1460.5	711.7	22.0	25.0	16
17	1447.3	420.9	56.4	54.0	1460.0	697.1	67.4	53.0	1461.0	726.4	31.9	26.0	1460.3	705.9	22.0	25.0	17
18	1448.0	437.9	62.4	54.0	1460.7	717.6	63.5	53.0	1461.5	744.5	33.1	24.0	1460.0	697.1	20.6	25.0	18
19	1449.6	452.8	61.5	54.0	1461.0	726.4	63.4	59.0	1461.8	750.5	32.0	29.0	1459.7	688.5	20.7	25.0	19
20	1449.2	467.8	61.6	54.0	1460.6	714.7	62.1	68.0	1461.7	747.5	33.5	35.0	1459.4	679.9	20.7	25.0	20
21	1449.4	472.9	56.6	54.0	1459.4	679.9	68.5	86.0	1461.7	747.5	35.0	35.0	1459.3	677.0	24.5	26.0	21
22	1449.6	478.0	66.6	64.0	1458.9	665.7	65.8	73.0	1461.7	747.5	32.0	32.0	1459.1	671.3	24.1	27.0	22
23	1458.9	745.9	265.0	130.0	1459.3	677.0	62.7	57.0	1461.6	744.5	31.5	33.0	1458.6	657.3	22.9	30.0	23
24	1462.7	870.4	535.8	473.0	1459.6	685.6	61.3	57.0	1461.5	741.5	28.5	30.0	1458.0	640.6	23.6	32.0	24
25	1441.2	278.9(2)	960.0	1,249.0	1460.0	697.1	56.8	51.0	1461.4	738.4	26.5	28.0	1457.3	621.5	19.4	29.0	25
26	1456.3	594.8	453.3	294.0	1460.5	711.7	54.4	47.0	1461.3	735.4	26.5	28.0	1456.8	608.1	19.2	26.0	26
27	1456.6	602.7	290.0	286.0	1460.9	723.5	52.9	47.0	1461.1	729.4	25.0	28.0	1456.3	594.8	19.3	26.0	27
28	1452.8	506.2	260.3	309.0	1461.2	732.4	51.5	47.0	1461.0	726.4	27.5	29.0	1455.9	584.3	19.7	25.0	28
29					1461.4	738.4	50.0	47.0	1461.1	729.4	29.5	28.0	1455.1	563.6	17.6	28.0	29
30					1461.0	726.4	46.9	53.0	1461.1	729.4	28.0	28.0	1454.6	550.9	23.6	30.0	30
31					1461.7	717.6	44.6	49.0					1453.9	533.5	21.1	30.0	31
TOTAL			4,422.5	4442.0			2,302.5	2696.0			1,033.9	1,028.0			716.1	815.0	
Inf. Ac. Ft.		8,771.9				5,558.8				2,050.8				1,420.4		26,057.2	
Outf. Ac. Ft.		8,810.5				5,347.4				2,039.0				1,616.5		26,145.7	
MAXIMUM Mean Daily Inflow		960.0				213.9				46.0				29.5		1,713.1	
Minimum Mean Daily Inflow		56.4				44.5				24.9				17.5		0.7	
Storage Change		- 56.9				+ 211.3				+ 11.8				- 196.0		- 270.8 (1)(2)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,470.2	feet	on	1/25/69	Storage	1,440.7	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,425.6	feet	on	11/4/68	Storage	255.4	Acre Feet	B.R. MC CARTY	Dam Tender	Gage Hts. copied	GF JSL	
Max. Peak Inf.	3,752.0	C.F.S. from	10:00 A.M.	on 1/25/69	to	11:00 A.M.	on 1/25/69	R.S. SARASUA	Hydrographer	Storage applied	GF JSL	
Max. Peak Outf.	3,340.0	C.F.S. from	10:00 A.M.	on 1/25/69	to	11:00 A.M.	on 1/25/69		Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS (1) 164.2 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XVI ON 1/25/69. SURVEY OF FEBRUARY, 1969.
(2) 18.3 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XVII ON 2/25/69.

760139N-686 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

In San Dimas Canyon for the Year Ending September 30, 1969

Drainage Area 16.2 Square Miles. Capacity of Reservoir 756.5 Ac. Ft. at Spillway Elev. 1,462.0 Ft. as of March 1969

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1453.1	513.5	20.0	30.0	1438.3	155.4	14.3	15.2	1460.4	708.8	7.7	0.3	1461.8	750.5	6.6	5.1	1
2	1452.5	499.0	22.7	30.0	1438.1	153.6	13.6	14.5	1460.9	723.5	7.7	0.3	1461.9	753.5	6.6	5.1	2
3	1451.8	482.1	21.5	30.0	1438.8	160.0	13.3	10.1	1461.4	738.4	7.8	0.3	1461.7	747.5	5.9	8.9	3
4	1451.2	467.9	21.8	29.0	1432.9	100.0	10.1	0	1461.9	753.5	7.9	0.3	1461.5	741.5	7.9	10.9	4
5	1450.4	449.4	20.7	30.0	1435.0	201.8	11.0	0	1462.2	762.7	4.9	0.3	1461.2	732.4	6.3	10.9	5
6	1449.7	433.5	22.0	30.0	1436.8	222.1	10.2	0	1462.3	765.8	7.9	6.4	1461.0	726.4	7.4	10.4	6
7	1449.0	418.0	22.2	30.0	1438.5	242.7	10.4	0	1462.3	765.8	7.8	7.8	1460.7	717.6	6.0	10.4	7
8	1448.3	403.2	22.5	30.0	1440.1	263.5	10.5	0	1462.3	765.8	7.1	7.1	1460.5	711.7	7.4	10.4	8
9	1447.4	384.8	20.7	30.0	1441.5	283.2	10.0	0	1462.2	762.7	6.7	8.3	1460.2	702.9	5.5	9.9	9
10	1446.7	371.1	23.1	30.0	1442.8	302.9	9.9	0	1462.3	765.8	7.7	6.2	1459.9	694.2	5.5	9.9	10
11	1446.1	359.6	21.2	27.0	1444.1	324.0	10.7	0	1462.3	765.8	6.6	6.6	1459.7	688.5	7.0	9.9	11
12	1445.5	348.6	21.5	27.0	1445.2	343.2	9.7	0	1462.3	765.8	5.8	5.8	1459.3	677.0	4.1	9.9	12
13	1444.7	334.4	20.8	28.0	1446.3	363.4	10.2	0	1462.3	765.8	7.8	7.8	1459.1	671.3	7.0	9.9	13
14	1443.4	312.5	17.0	28.0	1447.3	382.8	9.8	0	1462.3	765.8	6.5	6.5	1458.8	662.9	5.6	9.9	14
15	1442.3	295.2	19.3	28.0	1448.3	403.2	10.3	0	1462.1	759.6	7.4	10.6	1458.4	651.7	4.3	9.9	15
16	1441.3	280.3	20.5	28.0	1449.2	422.5	9.7	0	1462.0	756.5	7.8	9.4	1458.3	648.9	9.5	9.9	16
17	1440.1	263.5	19.5	28.0	1450.1	442.5	10.1	0	1461.9	753.5	7.9	9.4	1457.9	637.8	6.7	12.3	17
18	1438.4	241.5	18.9	30.0	1450.9	460.9	9.3	0	1461.7	747.5	6.4	9.4	1457.2	618.8	6.8	16.4	18
19	1436.5	218.6	21.5	33.0	1451.7	479.8	9.5	0	1461.6	744.5	7.9	9.4	1456.6	602.8	6.6	14.7	19
20	1434.3	194.3	19.7	31.0	1452.5	499.0	9.7	0	1461.4	738.4	6.4	9.4	1456.1	589.5	6.9	13.6	20
21	1432.4	175.1	18.3	28.0	1453.3	518.5	9.8	0	1461.3	735.4	7.9	9.4	1455.6	576.5	7.0	13.6	21
22	1430.4	156.3	18.5	28.0	1454.1	538.3	10.0	0	1461.1	729.4	6.0	9.0	1455.1	563.6	7.1	13.6	22
23	1429.3	146.5	20.0	25.0	1454.8	556.0	89.0	0	1461.0	726.4	7.5	9.0	1454.6	550.9	6.7	13.1	23
24	1429.6	149.1	17.9	16.6	1455.5	573.9	9.1	0	1460.8	720.5	6.0	9.0	1454.1	538.3	6.1	12.5	24
25	1430.1	153.6	17.1	14.9	1456.2	592.1	9.2	0	1460.6	714.7	6.0	9.0	1453.5	523.4	6.1	13.6	25
26	1430.3	155.4	16.1	15.2	1456.8	608.1	8.0	0	1460.7	717.6	8.1	6.6	1452.9	508.7	6.1	13.6	26
27	1430.5	157.2	16.1	15.2	1457.5	627.0	9.5	0	1461.1	729.4	6.6	0.6	1452.2	491.7	5.1	13.6	27
28	1430.6	158.1	15.7	15.2	1458.1	643.3	8.2	0	1461.5	741.5	6.7	0.6	1451.6	477.4	6.4	13.6	28
29	1430.6	158.1	15.2	15.2	1458.8	662.9	9.8	0	1461.7	747.5	6.4	3.4	1450.9	460.9	5.3	13.6	29
30	1430.5	157.2	14.7	15.2	1459.4	679.9	8.9	0.3	1461.7	747.5	5.5	5.5	1450.8	458.6	7.3	8.5	30
31					1459.9	694.2	7.5	0.3	1461.7	747.5	5.1	5.1					31
TOTAL			585.8	775.5			211.1	40.4			215.6	188.8			191.9	337.6	
Inf. Ac. Ft.		1,162.1				617.0				427.7				380.7		28,644.7	
Outf. Ac. Ft.		1,538.1				80.1				374.4				669.6		28,807.9	
MAXIMUM Mean Daily Inflow		23.0				14.2				8.0				9.4		1,713.1	
Minimum Mean Daily Inflow		14.7				7.5				4.9				4.1		0.7	
Storage Change		- 376.0				+ 536.9				+ 53.2				- 288.8		- 345.5 (1)(2)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,470.2	feet	on	1/25/69	Storage	1,440.7	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,425.6	feet	on	11/4/68	Storage	255.4	Acre Feet	B.R. MC CARTY	Dam Tender	Gage Hts. copied	GF JSL	
Max. Peak Inf.	3,752.0	C.F.S. from	10:00 A.M.	on 1/25/69	to	11:00 A.M.	on 1/25/69	R.S. SARASUA	Hydrographer	Storage applied	GF JSL	
Max. Peak Outf.	3,340.0	C.F.S. from	10:00 A.M.	on 1/25/69	to	11:00 A.M.	on 1/25/69		Hydrographer	Inf. & Outf. comp.	GF JSL	

REMARKS (1) 164.2 ACRE-FOOT LOSS DUE TO SILTATION.
(2) 18.3 ACRE-FOOT LOSS DUE TO SILTATION.

760138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

On San Dimas Wash for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 3.67 Square Miles. Capacity of Reservoir 199.7 Ac. Ft. at Spillway Elev. 1,152.5 Ft. as of October 1967 Gage Heights Read Daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1,135.0	5.5	2.8	2.6	1,137.2	15.8	8.3	0	1,147.4	123.5	9.3	7.7	1,143.6	76.6	4.1	7.3	1
2	1,134.8	5.0	3.9	4.0	1,141.5	52.9	19.8	0	1,147.0	118.2	7.6	7.5	1,143.0	69.6	5.2	7.3	2
3	1,134.5	4.2	3.7	4.0	1,141.1	48.6	5.9	7.1	1,146.7	114.4	8.1	7.3	1,143.3	73.1	10.6	7.3	3
4	1,134.2	3.5	3.2	3.5	1,143.5	138.2	62.4	13.8	1,146.4	110.6	8.0	7.3	1,144.2	83.7	14.5	7.5	4
5	1,134.2	3.5	3.9	3.8	1,150.8	171.9	38.3	16.7	1,145.9	104.3	7.5	8.3	1,144.7	89.6	12.8	7.9	5
6	1,134.2	3.5	6.1	6.0	1,151.4	181.5	24.4	14.6	1,145.2	95.7	6.4	8.6	1,144.9	92.0	11.3	8.1	6
7	1,134.3	3.8	5.8	5.6	1,150.6	168.8	10.5	12.4	1,144.8	90.8	9.2	9.7	1,144.4	86.1	7.1	8.3	7
8	1,134.3	3.8	5.2	5.1	1,149.8	156.7	10.1	12.0	1,144.8	90.8	12.2	10.2	1,143.9	80.1	7.0	8.3	8
9	1,134.3	3.8	5.7	5.6	1,148.9	143.8	8.4	11.3	1,144.6	88.4	10.9	10.2	1,143.6	76.6	8.1	8.3	9
10	1,134.3	3.8	5.7	5.6	1,148.1	132.8	8.6	10.8	1,144.3	84.9	9.9	9.9	1,143.7	77.8	10.5	8.3	10
11	1,134.2	3.5	5.8	5.8	1,147.1	119.5	6.5	10.4	1,144.0	81.3	10.1	10.2	1,143.2	72.0	6.9	8.3	11
12	1,134.2	3.5	5.7	5.6	1,145.0	105.5	5.2	9.9	1,143.7	77.8	9.7	9.9	1,142.5	64.0	5.2	7.9	12
13	1,134.2	3.5	5.7	5.6	1,145.0	93.2	5.5	9.7	1,143.2	72.0	8.3	9.7	1,143.0	69.6	12.2	7.9	13
14	1,134.2	3.5	5.4	5.3	1,144.0	81.3	3.8	8.1	1,142.7	66.2	7.9	9.5	1,142.7	66.2	7.3	7.7	14
15	1,134.2	3.5	5.2	5.1	1,143.3	73.1	3.8	6.4	1,142.3	61.7	8.4	9.3	1,142.4	62.8	7.1	7.5	15
16	1,134.2	3.5	6.3	6.2	1,142.4	62.8	2.3	6.2	1,141.8	56.1	7.6	9.3	1,142.0	58.3	6.2	7.3	16
17	1,134.2	3.5	6.3	6.2	1,142.2	60.6	3.2	3.1	1,141.2	49.7	6.7	9.0	1,141.6	54.0	6.2	7.3	17
18	1,134.2	3.5	6.3	6.2	1,142.5	64.0	3.0	0	1,141.0	47.5	8.7	8.8	1,141.1	48.6	5.3	7.0	18
19	1,133.3	1.8	4.6	5.4	1,146.1	105.8	24.0	0	1,141.8	56.1	8.9	3.5	1,141.2	49.7	5.4	3.9	19
20	1,132.4	0.7	(0	0	1,147.3	122.2	17.4	6.8	1,143.3	73.1	10.1	0	1,141.9	57.2	5.0	0	20
21	1,131.0	0	0	0	1,149.0	145.1	29.6	11.3	1,144.9	92.0	11.5	0	1,142.6	65.1	5.3	0	21
22	1,131.0	0	0	0	1,149.4	150.9	18.3	11.5	1,146.0	105.5	9.2	0	1,143.2	72.0	5.0	0	22
23	1,131.0	0	0	0	1,149.1	146.6	13.1	11.5	1,147.0	118.2	9.2	0	1,143.3	73.1	2.1	0	23
24	1,131.0	0	0	0	1,148.8	142.4	11.7	10.2	1,147.8	128.8	8.5	0	1,143.2	72.0	0.9	0	24
25	1,131.0	0	0	0	1,148.6	139.6	10.9	8.8	1,148.4	136.9	7.5	0	1,143.5	75.4	3.4	0	25
26	1,131.0	0	0	0	1,148.4	136.9	10.3	8.3	1,148.2	134.1	7.4	5.5	1,143.8	79.0	3.5	0	26
27	1,131.0	0	0	0	1,148.1	132.8	8.9	7.7	1,147.4	123.5	6.3	8.8	1,144.5	87.2	6.0	0	27
28	1,131.0	0	0	0	1,147.8	128.8	8.7	7.5	1,146.6	113.2	6.0	8.6	1,144.8	90.8	3.8	0	28
29	1,131.0	0	0	0	1,147.5	124.8	8.5	7.5	1,145.9	104.3	6.0	8.1	1,145.0	93.2	3.2	0	29
30	1,131.0	0	0	0	1,147.6	126.1	11.3	7.5	1,145.1	94.5	4.9	7.9	1,145.0	93.2	9.0	7.0	30
31	1,131.0	0	0	0					1,144.4	86.1	5.1	7.5	1,144.9	92.0	11.8	10.4	31
TOTAL			101.4	101.2			399.8	251.1			257.3	212.5			211.8	160.8	
Inf. Ac. Ft.		201.1				793.1				510.3				420.1		1,924.6	
Outf. Ac. Ft.		200.7 + (5.9)				498.0 + (168.9)				421.5 + (128.9)				318.9 + (95.2)		1,439.1 + (398.9)	
Maximum Mean Daily Inflow		6.3				62.3				38.9				14.5		52.3	
Minimum Mean Daily Inflow		0.0				2.3				4.9				0.9		0.0	
Storage Change		- 5.5				+ 126.1				- 40.0				+ 5.9		+ 86.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,151.8	feet	on	11/6/67	Storage	187.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,131.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	B. R. MC CARTY	Dam Tender	Gage Hts. copied	RAP	JSL
Max. Peak Inf.	125.4	C. F. S. from		12:00 NOON	on	11/30/67	to	2:00 P.M.	on	11/30/67	R. I. SARASUA	Hydrographer	Storage applied	RAP	JSL
Max. Peak Outf.	16.3	C. F. S. from		7:30 A.M.	on	11/6/67	to	4:30 P.M.	on	11/6/67		Hydrographer	Inf. & Outf. comp.	RAP	JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
(INDICATES AVERAGE FOR PERIOD

760138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

On San Dimas Wash for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 3.67 Square Miles. Capacity of Reservoir 199.7 Ac. Ft. at Spillway Elev. 1,152.5 Ft. as of October 1967 Gage Heights Read Daily

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1,144.7	89.6	11.1	10.4	1,139.3	31.9	6.3	0	1,134.4	4.0	2.1	0	1,131.0	0	0	0	1
2	1,144.4	86.1	7.7	7.7	1,139.7	35.3	2.4	0	1,135.3	6.6	1.5	0	1,131.0	0	0	0	2
3	1,143.7	77.8	3.4	6.0	1,140.0	37.9	2.1	0	1,135.3	6.6	0.2	0	1,131.0	0	0	0	3
4	1,143.0	69.6	3.3	6.0	1,140.2	39.8	1.8	0	1,135.4	6.9	(0.2	0	1,131.0	0	0	0	4
5	1,142.3	61.7	3.0	5.8	1,140.5	42.7	2.4	0	1,135.3	6.6	0.2	0	1,131.0	0	0	0	5
6	1,141.6	54.0	2.7	5.5	1,140.7	44.6	1.9	0	1,135.3	6.6	0.2	0	1,131.0	0	0	0	6
7	1,140.5	42.7	2.2	7.0	1,141.5	52.9	5.1	0	1,135.3	6.6	0.2	0	1,131.0	0	0	0	7
8	1,139.0	29.3	2.1	8.3	1,144.0	81.3	23.3	7.3	1,135.3	6.6	0.2	0	1,131.0	0	0	0	8
9	1,138.4	24.5	3.2	5.1	1,143.5	75.4	10.1	11.5	1,135.3	6.6	0.2	0	1,131.0	0	0	0	9
10	1,138.8	27.7	2.2	0	1,143.5	75.4	12.9	11.3	1,135.3	6.6	0.2	0	1,131.0	0	0	0	10
11	1,139.2	31.0	2.3	0	1,144.1	82.5	15.0	9.8	1,135.3	6.6	0.2	0	1,131.0	0	0	0	11
12	1,139.5	33.6	2.0	0	1,144.6	88.4	13.7	8.8	1,134.2	3.5	0.2	0.8	1,131.0	0	0	0	12
13	1,140.4	41.8	4.9	0	1,144.9	92.0	12.6	8.8	1,134.1	3.3	0.4	0.5	1,136.2	10.2	(5.0	0	13
14	1,141.4	51.8	6.1	0	1,144.6	88.4	8.7	8.6	1,132.9	1.2	0	0	1,138.7	26.9	5.0	0	14
15	1,143.0	69.6	10.4	0	1,144.2	83.7	7.7	8.3	1,132.3	0.6	0.1	0	1,140.5	42.7	5.0	0	15
16	1,144.4	86.1	10.1	0	1,143.7	77.8	6.9	8.3	1,132.3	0.6	0	0	1,141.9	57.2	5.0	0	16
17	1,144.5	87.2	(5.8	5.9	1,143.2	72.0	6.7	8.1	1,131.0	0	0	0	1,143.1	70.8	5.0	0	17
18	1,143.9	80.1	5.8	9.5	1,142.8	67.4	6.8	7.7	1,131.0	0	0	0	1,144.2	83.7	5.0	0	18
19	1,143.4	74.3	5.9	9.3	1,142.4	62.8	6.4	7.5	1,131.0	0	0	0	1,145.1	94.5	4.9	0	19
20	1,142.9	68.5	5.8	9.0	1,142.0	58.3	6.0	7.1	1,131.0	0	0	0	1,145.0	93.2	4.9	7.0	20
21	1,142.5	64.0	5.8	8.8	1,141.6	54.0	5.7	6.8	1,131.0	0	0	0	1,144.2	83.7	4.9	11.3	21
22	1,142.1	59.4	5.8	8.6	1,140.8	45.6	3.5	6.8	1,131.0	0	0	0	1,143.7	77.8	4.9	10.2	22
23	1,141.7	55.0	5.8	8.3	1,139.4	32.7	(0.4	6.6	1,131.0	0	0	0	1,142.9	68.5	4.9	9.9	23
24	1,141.4	51.8	5.8	7.9	1,138.0	21.3	0.4	5.6	1,131.0	0	0	0	1,141.2	49.7	4.9	7.4	24
25	1,141.0	47.5	5.8	7.7	1,136.7	12.8	0.4	4.9	1,131.0	0	0	0	1,139.7	35.3	4.9	5.5	25
26	1,140.3	40.8	5.8	7.7	1,135.1	5.9	0.4	4.0	1,131.0	0	0	0	1,138.2	22.9	4.9	4.7	26
27	1,139.1	30.1	5.8	7.3	1,133.2	1.6	0.4	2.5	1,131.0	0	0	0	1,136.8	13.3	4.9	4.0	27
28	1,138.5	25.3	5.8	4.5	1,132.3	0.6	0.4	0.3	1,131.0	0	0	0	1,135.3	6.6	4.9	3.1	28
29	1,137.9	20.6	5.8	0	1,131.0	0	0.4	0.2	1,131.0	0	0	0	1,133.1	1.4	4.9	1.9	29
30					1,131.0	0	0.4	0.1	1,131.0	0	0	0	1,132.3	0.6	0	0	30
31					1,131.0	0	0	0					1,131.0	0	0	0	31
TOTAL			152.4	156.3			170.8	150.9			6.1	1.3			83.9	65.0	
Inf. Ac. Ft.		302.4				338.8				12.1				166.4		2,744.3	
Outf. Ac. Ft.		310.0 + (63.8)				299.3 + (60.0)				2.5 + (9.5)				128.9 + (37.4)		2,179.8 + (569.6)	
Maximum Mean Daily Inflow		11.0				23.3				2.1				5.0		62.3	
Minimum Mean Daily Inflow		2.0				0.3				0.0				0.0		0.0	
Storage Change		- 71.4				- 20.5				0				0		- 5.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,151.8	feet	on	11/6/67	Storage	187.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,131.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	B. R. MC CARTY	Dam Tender	Gage Hts. copied	RAP	JSL
Max. Peak Inf.	125.4	C. F. S. from		12:00 NOON	on	11/30/67	to	2:00 P.M.	on	11/30/67	R. J. SARASUA	Hydrographer	Storage applied	RAP	JSL
Max. Peak Outf.	16.3	C. F. S. from		7:30 A.M.	on	11/6/67	to	4:30 P.M.	on	11/6/67		Hydrographer	Inf. & Outf. comp.	RAP	JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
(INDICATES AVERAGE FOR PERIOD

76D138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

On San Dimas Wash for the Year Ending September 30, 1968

Drainage Area 3.67 Square Miles. Capacity of Reservoir 199.7 Ac. Ft. at Spillway Elev. 1,152.5 Ft. as of October 1967

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1			0	0			0	0			0	0			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	2,744.3	
Outf. Ac. Ft.																2,179.8 + (569.6)	
Maximum Mean Daily Inflow																62.3	
Minimum Mean Daily Inflow																0	
Storage Change			0				0				0				0		− 5.5

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,151.8	feet	on	11/6/67	Storage	187.9	Acre Feet		
Min. W. S. Elev.	1,131.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		
Max. Peak Inf.	128.4	C.F.S. from	12:00 NOON	on	11/30/67	to	2:00 P.M.	on	11/30/67
Max. Peak Outf.	16.3	C.F.S. from	7:30 A.M.	on	11/6/67	to	4:30 P.M.	on	11/5/67

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
B. R. MC CARTY	Dam Tender	Gage Hts. copied	RAP	JSL
R. J. SARASUA	Hydrographer	Storage applied	RAP	JSL
	Hydrographer	Inf. & Outf. comp.	RAP	JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

On San Dimas Wash for the Year Ending September 30, 1969

Drainage Area 8.67 Square Miles. Capacity of Reservoir 73.7 199.7 Ac. Ft. at Spillway Elev. 1,152.5 Ft. as of January October 1969 1967

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1					1,145.6	108.6	17.3	13.9			0	0			0	0	1
2					1,145.7	101.8	16.7	13.9			0	0			0	0	2
3					1,145.6	106.6	15.2	13.6			0	0			0	0	3
4					1,144.8	90.8	6.8	13.4			0	0			0	0	4
5					1,142.4	62.8	0	11.8			0	0			0	0	5
6					1,140.1	38.9	0	9.9			0	0	1,136.2	10.2	5.3	0	6
7					1,137.5	17.8	0	9.4			0	0	1,138.7	26.9	9.0	0	7
8					1,133.3	1.8	0	8.2			0	0	1,139.0	29.3	9.0	6.1	8
9					1,132.3	0.6	0	0.2			0	0	1,139.1	30.1	11.6	10.6	9
10					1,132.3	0.6	0	0			0	0	1,138.9	28.5	10.6	10.8	10
11					1,132.3	0.6	0	0			0	0	1,139.1	30.1	12.2	10.8	11
12					1,132.3	0.6	0	0			0	0	1,139.6	34.5	13.9	11.0	12
13					1,132.4	0.7	0	0			0	0	1,140.7	44.6	15.4	9.4	13
14					1,132.4	0.7	0	0			0	0	1,143.1	70.8	14.6	0	14
15					1,132.4	0.7	0	0			0	0	1,143.1	70.8	11.5	10.1	15
16	1,131.0	0	0	0	1,132.4	0.7	0	0			0	0	1,141.5	52.9	5.4	13.4	16
17	1,135.6	7.7	5.1	0	1,132.4	0.7	0	0			0	0	1,139.4	32.7	0	8.6	17
18	1,138.1	22.1	10.6	0	1,132.4	0.7	0	0			0	0	1,137.7	19.2	0	6.2	18
19	1,139.8	36.2	10.9	0	1,132.3	0.6	0	0			0	0	1,136.7	12.8	0	3.8	19
20	1,140.1	38.9	12.8	0	1,132.2	0.5	0	0			0	0	1,139.4	32.7	14.9	4.4	20
21	1,141.6	54.0	14.8	6.3	1,132.1	0.4	0	0			0	0	1,149.5	152.4	66.5	2.2	21
22	1,141.8	56.1	13.5	11.3	1,132.0	0.3	0.1	0			0	0	1,149.2	148.0	327.6	326.0	22
23	1,142.2	60.6	14.6	11.2	1,131.9	0.3	0.1	0			0	0	1,148.9	143.7	359.4	358.0	23
24	1,142.7	66.2	15.8	11.6	1,131.8	0.2	0.1	0			0	0	1,149.1	146.6	246.2	241.0	24
25	1,143.2	72.0	16.6	12.2	1,131.7	0.2	0.1	0			0	0	1,151.8	65.7(1)	2,610.5	2,588.0	25
26	1,143.6	76.6	16.4	12.5	1,131.6	0.2	0.1	0			0	0	1,147.6	31.0	735.2	752.0	26
27	1,143.9	80.1	16.4	12.9	1,131.5	0.1	0.1	0			0	0	1,146.4	24.5	549.2	552.0	27
28	1,144.4	86.1	18.4	13.6	1,131.4	0.1	0.1	0			0	0	1,146.4	24.5	140.5	140.0	28
29	1,144.7	89.6	17.3	13.6	1,131.3	0.1	0.1	0			0	0	1,146.1	23.0	111.7	112.0	29
30	1,145.1	94.5	18.0	13.6	1,131.0	0.0	0	0			0	0	1,146.1	23.0	80.5	80.0	30
31	1,145.4	98.1	17.9	13.9				0			0	0	1,146.1	23.0	83.7	83.2	31
TOTAL			218.9	132.7			56.8	0			0	0			5,444.6	5,339.6	
Inf. Ac. Ft.		434.3				112.7				0				10,797.1		11,344.1	
Outf. Ac. Ft.		263.2 + (72.9)				187.0 + (23.8)				0				10,580.9 + (60.8)		11,041.1 + (157.5)	
Maximum Mean Daily Inflow		18.3				17.3				0				2,610.4		2,610.4	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change	+ 98.1				− 98.1				0				+ 23.0			+ 23.0(1)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,154.3	feet	on	1/25/69	Storage	231.0	Acre Feet		
Min. W. S. Elev.	1,137.0	feet	on	JULY - SEPT.	Storage	0	Acre Feet		
Max. Peak Inf.	4,715.0	C.F.S. from	10:00 A.M.	on	1/25/69	to	11:00 A.M.	on	1/25/69
Max. Peak Outf.	4,650.0	C.F.S. from	10:00 A.M.	on	1/25/69	to	12:00 NOON	on	1/25/69

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
B. R. MC CARTY	Dam Tender	Gage Hts. copied	RAP	JSL
R. J. SARASUA	Hydrographer	Storage applied	RAP	JSL
	Hydrographer	Inf. & Outf. comp.	RAP	JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES. (INDICATES AVERAGE FOR PERIOD.

(1) 122.2 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XV ON 1/25/60. SURVEY OF FEBRUARY 1969.

760138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

On San Dimas Wash for the Year Ending September 30, 1969

Drainage Area 8.67 Square Miles. Capacity of Reservoir 41.6 / 73.7 / 199.7 Ac. Ft. at Spillway Elev. 1,152.5 Ft. as of March 1969 / January 1969 / October 1967

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,146.0	22.5	81.3	81.2	1,146.2	6.9	201.6	201.1	1,150.2	22.8	47.5	47.2	1,152.0	36.9	23.5	22.2	1
2	1,146.0	22.5	66.4	66.0	1,146.7	7.9	174.7	173.1	1,151.7	34.3	44.5	36.1	1,151.6	33.5	22.2	21.3	2
3	1,145.9	22.1	61.4	61.2	1,146.5	7.5	218.0	217.2	1,151.8	35.2	44.8	41.7	1,151.3	30.9	22.5	21.3	3
4	1,145.9	22.1	60.8	60.4	1,146.5	7.5	170.2	169.2	1,151.6	33.5	47.6	45.9	1,151.8	35.2	26.1	21.3	4
5	1,146.2	23.5	77.2	76.0	1,146.5	7.5	162.3	161.3	1,151.4	31.8	49.2	47.6	1,152.1	37.8	28.0	23.9	5
6	1,146.7	26.0	188.7	186.9	1,146.4	7.3	154.2	153.3	1,151.2	30.1	49.1	47.6	1,151.8	35.2	24.5	23.1	6
7	1,146.6	25.5	207.4	207.2	1,146.2	6.9	120.5	119.7	1,151.0	28.4	44.5	43.0	1,151.7	34.3	23.6	21.4	7
8	1,146.6	25.5	206.3	205.8	1,146.2	6.9	108.2	107.2	1,151.0	28.4	35.5	33.1	1,151.6	33.5	24.6	22.4	8
9	1,146.1	23.0	135.9	136.7	1,146.2	6.9	107.9	106.9	1,151.0	28.4	36.1	33.7	1,151.8	35.2	25.0	21.4	9
10	1,146.0	22.5	76.3	76.2	1,146.2	6.9	107.9	106.9	1,152.0	36.9	40.8	33.7	1,151.9	36.0	24.5	21.4	10
11	1,146.0	22.5	65.0	64.6	1,146.2	6.9	107.8	106.8	1,151.8	35.2	43.8	42.0	1,152.0	36.9	24.5	21.3	11
12	1,146.0	22.5	65.0	64.6	1,146.2	6.9	107.8	106.8	1,151.4	31.8	44.1	43.3	1,152.0	36.9	24.1	21.3	12
13	1,146.0	22.5	65.0	64.6	1,146.2	6.9	107.9	106.8	1,151.2	30.1	44.6	43.1	1,152.0	36.9	24.1	21.3	13
14	1,146.0	22.5	65.1	64.7	1,145.9	6.3	83.4	82.8	1,150.7	26.5	39.9	39.6	1,151.6	33.5	22.2	21.3	14
15	1,146.0	22.5	67.2	66.8	1,145.9	6.3	55.5	54.6	1,150.2	22.8	30.8	30.5	1,151.6	33.5	23.9	21.3	15
16	1,146.0	22.5	64.6	64.2	1,145.9	6.3	55.5	54.6	1,151.6	33.5	30.2	22.2	1,151.6	33.5	23.9	21.3	16
17	1,146.0	22.5	64.6	64.2	1,145.9	6.3	55.5	54.6	1,152.2	38.8	25.4	19.9	1,151.5	32.6	23.5	21.3	17
18	1,146.0	22.5	65.0	64.6	1,145.9	6.3	55.7	54.8	1,152.1	37.8	23.1	20.8	1,151.5	32.6	23.8	21.2	18
19	1,146.0	22.5	65.0	64.6	1,146.0	6.5	55.9	54.8	1,151.4	31.8	23.3	23.9	1,151.4	31.8	23.3	21.2	19
20	1,146.0	22.5	65.1	64.7	1,146.0	6.5	73.9	72.9	1,150.4	24.2	23.0	24.7	1,151.2	30.1	22.7	21.2	20
21	1,146.0	22.5	65.0	64.6	1,146.2	6.9	81.2	80.0	1,151.6	33.5	29.2	21.9	1,150.8	27.0	21.9	21.2	21
22	1,146.2	23.5	73.0	72.0	1,145.9	6.3	69.7	69.1	1,152.4	40.7	30.0	23.5	1,150.5	24.9	22.3	21.2	22
23	1,147.0	27.5	191.2	188.6	1,145.9	6.3	53.2	52.3	1,151.7	34.3	30.9	31.5	1,151.1	29.3	25.8	21.2	23
24	1,150.0	48.1	672.0	660.4	1,145.9	6.3	56.8	55.9	1,151.8	35.1	30.7	27.6	1,152.0	36.9	27.8	21.2	24
25	1,148.2(2)	12.3	2,144.9	2,150.2	1,147.4	9.7	48.5	45.6	1,152.0	36.9	29.1	25.4	1,152.2	38.8	25.1	21.3	25
26	1,147.2	9.1	532.6	533.0	1,149.4	18.0	47.6	41.6	1,152.1	37.8	29.1	25.8	1,152.3	39.7	24.7	21.3	26
27	1,147.2	9.1	401.2	400.0	1,150.2	22.8	45.1	40.6	1,152.0	36.9	28.1	25.8	1,152.2	38.9	23.6	21.3	27
28	1,146.7	7.9	385.6	385.1	1,150.4	24.2	42.7	39.9	1,152.1	37.8	28.2	24.9	1,151.5	32.6	20.8	21.3	28
29					1,150.6	25.6	42.8	39.9	1,152.1	37.8	24.7	21.9	1,151.5	32.6	23.9	21.3	29
30					1,152.0	36.9	49.4	40.4	1,152.3	39.7	25.6	21.7	1,151.9	36.0	26.7	22.3	30
31					1,150.7	26.3	48.6	51.9					1,152.0	36.9	26.5	23.3	31
TOTAL			6,264.6	6,244.7			2,868.8	2,821.6			1,053.6	969.6			749.7	669.3	
Inf. Ac. Ft.		12,425.7				5,690.3				2,089.9				1,487.0		33,037.0	
Outf. Ac. Ft.		12,386.1 + (32.3)				5,598.5 + (75.3)				1,923.1 (153.3)				1,327.5 + (162.4)		32,274.3+(580.8)	
Maximum Mean Daily Inflow		2,144.9				217.9				49.2				28.0		2,610.4	
Minimum Mean Daily Inflow		46.4				42.7				22.9				20.7		0	
Storage Change	− 15.1				+ 18.3				+ 13.4				− 2.8			+ 36.9 (1)(2)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

										RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Max. W. S. Elev.	1,154.3	feet	on	1/25/69	Storage	231.0	Acre Feet			B. R. MC CARTY	Dam Tender	Gage Hts. copied	RAP JSL	
Min. W. S. Elev.	1,137.0	feet	on	JULY - SEPT.	Storage	0	Acre Feet			R. J. SARASUA	Hydrographer	Storage applied	RAP JSL	
Max. Peak Inf.	4,715.0	C.F.S. from	10:00 A.M.	on	1/25/69	to	11:00 A.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP JSL	
Max. Peak Outf.	4,650.0	C.F.S. from	10:00 A.M.	on	1/25/69	to	12:00 NOON	on	1/25/69					

REMARKS (1) 122.2 ACRE-FOOT LOSS DUE TO SILTATION, ES.
(2) 22.3 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XVI ON 2/25/69.
( ) INDICATES EVAPORATION AND OTHER LOSSES.

760138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

On San Dimas Wash for the Year Ending September 30, 1969

Drainage Area 8.67 Square Miles. Capacity of Reservoir 41.6 Ac. Ft. at Spillway Elev. 1,152.5 Ft. as of March 1969

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,152.2	38.8	25.8	22.0	1,151.2	30.1	12.0	10.9			0.2	0.2			1.0	1.0	1
2	1,152.3	39.7	25.4	22.0	1,150.6	28.6	10.5	10.6			0.2	0.2			0.9	0.9	2
3	1,152.3	39.7	25.9	23.0	1,149.8	26.2	8.9	19.7			0.2	0.2			3.9	2.9	3
4	1,152.2	38.8	25.3	23.0	1,148.0	11.5	2.5	5.5			0.2	0.2			6.2	6.2	4
5	1,152.2	38.8	25.8	23.0	1,144.1	3.9	2.3	5.5			0.2	0.2			6.2	6.2	5
6	1,152.2	38.8	25.8	23.0	1,140.5	0.7	1.8	3.2			0.2	0.2			6.4	6.4	6
7	1,152.1	37.8	25.3	23.0	1,141.9	1.7	0.9	0.1			0.2	0.2			6.2	6.2	7
8	1,152.0	36.9	25.3	23.0	1,140.0	0.4	0.9	1.3			0.2	0.2			6.0	6.0	8
9	1,151.9	36.0	25.3	23.0	1,140.0	0.4	0.7	0.5			1.2	1.2			6.0	6.0	9
10	1,151.9	36.0	25.7	23.0	1,141.0	1.0	0.5	0			0.2	0.2			6.0	6.0	10
11	1,151.5	32.6	23.9	23.0	1,141.7	1.5	0.6	0			2.7	2.7			6.4	6.4	11
12	1,151.2	30.1	24.1	23.0	1,142.1	1.8	0.5	0			1.9	1.9			6.4	6.4	12
13	1,151.1	29.3	25.0	23.0	1,142.4	2.1	0.5	0			3.6	3.6			6.0	6.0	13
14	1,151.5	32.6	27.3	23.0	1,139.0	0.1	0	0.9			2.3	2.3			6.9	6.9	14
15	1,151.6	33.5	26.0	23.0	1,138.7	0.1	0.4	0.3			5.7	5.7			6.8	6.8	15
16	1,151.6	33.5	25.6	23.0	1,138.6	0.1	0.7	0.6			5.3	5.3			6.8	6.8	16
17	1,151.5	32.6	25.2	23.0	1,138.6	0.1	0.4	0.3			6.5	6.5			8.3	8.3	17
18	1,151.7	34.3	23.5	20.0	1,138.6	0.1	0.1	0			10.6	10.6			12.0	12.0	18
19	1,152.2	38.8	28.0	23.0	1,138.6	0.1	0.1	0			6.4	6.4			10.4	10.4	19
20	1,152.3	39.7	27.4	24.0	1,138.6	0.1	0.1	0			6.2	6.2			8.8	8.8	20
21	1,152.3	39.7	26.9	24.0	1,138.6	0.1	0.1	0			6.2	6.2			8.8	8.8	21
22	1,152.3	39.7	26.9	24.0	1,138.6	0.1	0.3	0.2			5.5	5.5			9.0	9.0	22
23	1,152.3	39.7	22.4	19.5	1,138.6	0.1	0.3	0.2			6.2	6.2			9.0	9.0	23
24	1,152.0	36.9	15.3	14.0	1,138.6	0.1	0.3	0.2			5.8	5.8			8.5	8.5	24
25	1,151.5	32.6	14.5	14.0	1,138.6	0.1	0.3	0.2			5.8	5.8			10.1	10.1	25
26	1,151.4	31.8	14.0	11.9	1,137.7	0.1	0.2	0.2			5.0	5.0			9.9	9.9	26
27	1,151.5	32.6	13.8	10.8	1,137.0	0	0.2	0.2			0.1	0.1			9.7	9.7	27
28	1,151.5	32.6	13.6	11.0			0.2	0.2			0.5	0.5			9.7	9.7	28
29	1,151.5	32.6	13.6	11.0			0.2	0.2			1.4	1.4			9.9	9.9	29
30	1,151.5	32.6	13.6	11.0			0.2	0.2			0.8	0.8			7.7	7.7	30
31							0.2	0.2			1.0	1.0					31
TOTAL			686.1	607.2			46.7	51.4			92.5	92.5			219.9	219.9	
Inf. Ac. Ft.		1,360.9				92.7				183.4				436.1		35,110.1	
Outf. Ac. Ft.		1,204.3 + (150.8)				101.9 + (23.4)				183.4 + (0)				436.1 + (0)		34,200.0+(765.0)	
Maximum Mean Daily Inflow		28.0				12.0				10.6				12.0		2,610.4	
Minimum Mean Daily Inflow		13.6				0				0.1				0.9		0	
Storage Change	− 4.2				− 32.6				0				0			0 (1)(2)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

										RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Max. W. S. Elev.	1,154.3	feet	on	1/25/69	Storage	231.0	Acre Feet			B. R. MC CARTY	Dam Tender	Gage Hts. copied	RAP JSL	
Min. W. S. Elev.	1,137.0	feet	on	JULY - SEPT.	Storage	0	Acre Feet			R. J. SARASUA	Hydrographer	Storage applied	RAP JSL	
Max. Peak Inf.	4,715.0	C.F.S. from	10:00 A.M.	on	1/25/69	to	11:00 A.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP JSL	
Max. Peak Outf.	4,650.0	C.F.S. from	10:00 A.M.	on	1/25/69	to	12:00 NOON	on	1/25/69					

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.
(2) 122.2 ACRE-FOOT LOSS DUE TO SILTATION.
(2) 22.3 ACRE-FOOT LOSS DUE TO SILTATION.

760136N-668 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 33.1 Square Miles. Capacity of Reservoir 16,855.5 Ac. Ft. at Spillway Elev. 970.0 Ft. as of November 1965 Gage Heights Read Daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	940.88	6441.3	0	0	940.49	6344.4	1.1	0	942.12	6758.1	0	0	942.40	6831.6	0.8	0	1
2	940.87	6438.8	0.5	0	940.48	6341.9	0.6	0	942.11	6755.5	0	0	942.41	6834.2	1.6	0	2
3	940.86	6436.3	0.1	0	940.48	6341.9	1.0	0	942.11	6755.5	1.3	0	942.42	6836.8	1.7	0	3
4	940.84	6431.4	0	0	940.47	6339.5	0	0	942.10	6752.9	0	0	942.41	6834.2	0	0	4
5	940.83	6428.9	0.8	0	940.47	6339.5	0.9	0	942.10	6752.9	0.6	0	942.00	6831.6	0	0	5
6	940.81	6423.9	0	0	940.47	6339.5	1.0	0	942.09	6750.2	0	0	942.00	6831.6	0.8	0	6
7	940.80	6421.4	1.6	0	940.47	6339.5	1.0	0	942.09	6750.2	0.5	0	942.00	6831.6	1.4	0	7
8	940.78	6416.4	1.0	0	940.47	6339.5	1.1	0	942.08	6747.6	0	0	942.39	6828.9	0	0	8
9	940.76	6411.5	0.6	0	940.46	6336.9	0	0	942.08	6747.6	0.9	0	942.39	6828.9	0.8	0	9
10	940.75	6409.0	0.6	0	940.45	6334.4	0.3	0	942.07	6745.0	0.7	0	942.38	6826.3	0	0	10
11	940.74	6406.4	0.4	0	940.45	6334.4	2.3	0	942.06	6742.4	0.1	0	943.40	6831.6	3.0	0	11
12	940.72	6401.5	0.0	0	940.44	6331.9	0.4	0	942.05	6739.7	0	0	942.39	6828.9	0	0	12
13	940.71	6399.1	1.2	0	940.43	6329.5	0.3	0	942.02	6731.8	0	0	942.38	6826.3	0.4	0	13
14	940.70	6396.6	0.6	0	940.43	6329.5	1.6	0	942.00	6726.6	0.1	0	942.38	6826.3	1.7	0	14
15	940.69	6394.1	1.6	0	940.42	6327.0	0.4	0	942.00	6726.6	0.8	0	942.37	6823.7	0	0	15
16	940.66	6386.6	0	0	940.42	6327.0	1.0	0	941.99	6724.0	0	0	942.38	6826.3	1.6	0	16
17	940.65	6384.2	1.9	0	940.42	6327.0	0.9	0	941.98	6721.5	0	0	942.37	6823.7	0	0	17
18	940.63	6379.2	1.1	0	940.52	6351.8	13.6	0	942.28	6800.1	39.7	0	942.36	6821.1	0.1	0	18
19	940.62	6376.7	1.8	0	941.38	6568.1	109.1	0	942.45	6844.7	22.7	0	942.36	6821.1	1.7	0	19
20	940.60	6371.7	0.1	0	941.63	6632.0	32.4	0	942.45	6844.7	0.8	0	942.36	6821.1	1.7	0	20
21	940.60	6371.7	1.4	0	941.99	6724.0	46.5	0	942.45	6844.7	0.8	0	942.35	6818.4	0.4	0	21
22	940.59	6369.3	0.1	0	941.98	6721.4	0	0	942.44	6842.1	0	0	942.35	6818.4	1.1	0	22
23	940.58	6366.8	0	0	941.98	6721.4	0.8	0	942.43	6839.5	0.1	0	942.35	6818.4	1.3	0	23
24	940.57	6364.3	0.1	0	941.97	6718.9	0.8	0	942.43	6839.5	1.1	0	942.34	6815.8	0.4	0	24
25	940.56	6361.8	0.4	0	941.96	6716.3	0.2	0	942.43	6839.5	1.0	0	942.34	6815.8	1.6	0	25
26	940.55	6359.3	0	0	941.96	6716.3	1.3	0	942.43	6839.5	0.9	0	942.36	6821.1	3.8	0	26
27	940.54	6356.8	0.1	0	941.95	6713.8	0	0	942.42	6836.9	0.0	0	942.46	6847.3	13.4	0	27
28	940.54	6356.8	0.9	0	941.94	6711.2	0	0	942.42	6836.9	0.8	0	942.46	6847.3	0.7	0	28
29	940.53	6354.3	0	0	941.94	6711.2	1.5	0	942.42	6836.9	0.4	0	942.45	6844.7	0	0	29
30	940.51	6349.4	0	0	942.13	6760.7	24.9	0	942.41	6834.3	0	0	942.45	6844.7	0.9	0	30
31	950.50	6346.9	1.2	0					942.40	6831.6	0	0	942.45	6844.7	0.3	0	31
TOTAL			18.2	0			244.2	0			73.3	0			41.2	0	
Inf. Ac. Ft.		36.1				484.4				145.4				81.7		747.6	
Outf. Ac. Ft.		0 + (135.5)				0 + (70.6)				0 + (74.3)				0 + (68.6)		0 + (349.0)	
Maximum Mean Daily Inflow		1.9				109.1				39.7				13.4		109.1	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change		- 99.3				+ 413.8				+ 70.8				+ 13.1		+ 398.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	944.02	feet	on	3/13-15/68	Storage	7,264.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	940.42	feet	on	11/16-18/67	Storage	6,327.1	Acre Feet	G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	759.6	C. F. S. from		4:00 A.M. on	3/8/68	to	6:00 A.M. on	3/8/68	R. J. SARASUA	Hydrographer	Storage applied	RAP-JSL
Max. Peak Outf.	108.0	C. F. S. from		1:30 P.M. on	7/23/68	to	8:00 A.M. on	7/24/68		Hydrographer	Inf. & Outf. comp.	RAP-JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

760136N-668 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 33.1 Square Miles. Capacity of Reservoir 16,855.5 Ac. Ft. at Spillway Elev. 970.0 Ft. as of November 1965 Gage Heights Read Daily

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	942.45	6844.7	0.6	0	942.51	6860.5	1.4	0	943.15	7029.5	15.7	0	942.84	6947.1	0.5	0	1
2	942.45	6844.7	1.0	0	942.51	6860.5	0.9	0	943.18	7037.6	4.3	0	942.83	6944.4	0.4	0	2
3	942.44	6842.1	0	0	942.49	6855.2	0	0	943.17	7034.9	0.2	0	942.82	6941.8	0.3	0	3
4	942.44	6842.1	1.2	0	942.48	6852.6	1.0	0	943.16	7032.2	0.3	0	942.81	6939.2	0.1	0	4
5	942.43	6839.4	0.4	0	942.47	6850.0	0.6	0	943.16	7032.2	1.7	0	942.80	6936.6	0.4	0	5
6	942.42	6836.8	0	0	942.47	6850.0	0.9	0	943.15	7029.5	0	0	942.79	6933.9	0.1	0	6
7	942.41	6834.2	0	0	942.71	6913.0	32.4	0	943.14	7026.8	0.7	0	942.78	6931.3	0.4	0	7
8	942.41	6834.2	0.8	0	944.00	7258.6	174.2	0	943.13	7024.1	1.4	0	942.77	6928.7	0	0	8
9	942.44	6842.1	4.3	0	944.01	7261.4	2.2	0	943.11	7018.7	1.8	0	942.76	6926.1	0.4	0	9
10	942.44	6842.1	0.3	0	944.02	7264.7	3.1	0	943.10	7016.0	0.4	0	942.75	6923.4	0.5	0	10
11	942.44	6842.1	0.8	0	944.01	7261.4	0.3	0	943.09	7013.3	2.0	0	942.74	6920.8	0	0	11
12	942.45	6844.7	1.6	0	944.00	7258.6	0	0	943.08	7010.6	0.3	0	942.73	6918.2	0	0	12
13	942.57	6876.2	16.2	0	944.02	7264.1	3.4	0	943.07	7007.9	0	0	942.72	6915.6	0	0	13
14	942.58	6878.8	1.6	0	944.02	7264.1	0.7	0	943.06	7005.2	0.6	0	942.70	6910.3	0	0	14
15	942.57	6876.2	0	0	943.98	7253.2	3.1	7.5	943.05	7002.5	0.5	0	942.68	6905.1	0	0	15
16	942.57	6876.2	0.6	0	943.85	7218.2	1.8	18.4	943.04	6999.8	0	0	942.67	6902.4	0.9	0	16
17	942.56	6873.6	0	0	943.72	7183.1	1.6	18.4	943.02	6994.4	0	0	942.66	6899.8	1.1	0	17
18	942.56	6873.6	0.7	0	943.58	7145.4	0.5	17.5	943.00	6989.1	0	0	942.65	6897.2	1.2	0	18
19	942.56	6873.6	0.8	0	943.50	7123.8	2.7	11.4	942.99	6986.4	0.7	0	942.64	6894.6	1.5	0	19
20	942.56	6873.6	0.3	0	943.45	7110.3	1.4	5.9	942.98	6983.8	0.1	0	942.62	6889.3	0	0	20
21	942.55	6870.9	0	0	943.39	7094.2	1.9	7.8	942.96	6978.5	0	0	942.61	6886.7	1.1	0	21
22	942.55	6870.9	0.4	0	943.32	7075.3	0.6	7.8	942.94	6973.3	0	0	942.60	6884.1	0.9	0	22
23	942.55	6870.9	0.3	0	943.27	7061.8	2.8	7.2	942.93	6970.7	1.6	0	942.59	6881.4	0.9	0	23
24	942.54	6868.3	0.1	0	943.21	7045.6	0.4	6.8	942.91	6965.4	0.7	0	942.57	6876.2	0	0	24
25	942.54	6868.3	1.4	0	943.23	7051.0	11.7	7.3	942.90	6962.8	1.8	0	942.56	6873.6	1.2	0	25
26	942.53	6865.7	0	0	943.18	7037.6	1.3	6.5	942.90	6962.8	1.9	0	942.54	6868.3	0.7	0	26
27	942.53	6865.7	0.3	0	943.12	7021.4	0.1	6.3	942.89	6960.2	0.1	0	942.53	6865.7	2.3	0	27
28	942.53	6865.7	0.7	0	943.08	7010.6	2.3	5.2	942.88	6957.6	0.6	0	942.52	6863.1	1.7	0	28
29	942.51	6860.4	0	0	943.06	7005.2	1.5	2.2	942.86	6952.3	0.2	0	942.50	6857.8	0.2	0	29
30					943.05	7002.5	1.3	1.0	942.85	6949.7	0.7	0	942.49	6855.2	1.4	0	30
31					943.04	6999.8	0.8	1.0					942.48	6852.6	0.7	0	31
TOTAL			34.4	0			257.0	138.2			38.3	0			18.9	0	
Inf. Ac. Ft.		68.2				509.8				75.9				37.5		1,439.0	
Outf. Ac. Ft.		0 + (52.4)				274.1 + (96.1)				0 + (126.1)				0 + (134.6)		274.1 + (758.2)	
Maximum Mean Daily Inflow		16.2				174.2				15.7				2.3		174.2	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change		+ 15.7				+ 139.4				- 50.1				- 97.1		+ 406.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	944.02	feet	on	3/13-15/68	Storage	7,264.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	940.42	feet	on	11/16-18/67	Storage	6,327.1	Acre Feet	G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	759.6	C. F. S. from		4:00 A.M. on	3/8/68	to	6:00 A.M. on	3/8/68	R. J. SARASUA	Hydrographer	Storage applied	RAP-JSL
Max. Peak Outf.	108.0	C. F. S. from		1:30 P.M. on	7/23/68	to	8:00 A.M. on	7/24/68		Hydrographer	Inf. & Outf. comp.	RAP-JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

D138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 19 68

Continuous Water Stage Recorder Au

Drainage Area 33.1 Square Miles. Capacity of Reservoir 16,855.5 Ac. Ft. at Spillway Elev. 970.0 Ft. as of November 19 65

Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow
1	942.47	6,849.9	1.2	0	942.06	6,742.3	0	0	941.56	6,614.1	102.4	99.2	941.21	6,524.7	104.2	99.0
2	942.45	6,844.7	0	0	942.05	6,739.7	1.7	0	941.56	6,614.1	102.3	99.2	941.23	6,529.9	104.1	99.0
3	942.44	6,842.1	1.5	0	942.03	6,734.5	0.8	0	941.56	6,614.1	102.4	99.2	941.25	6,534.9	104.5	101.0
4	942.43	6,839.4	0.9	0	942.02	6,731.8	1.7	0	941.57	6,616.7	102.4	99.2	941.25	6,534.9	104.9	105.0
5	942.42	6,836.8	0.4	0	942.00	6,726.6	0.5	0	941.56	6,614.1	103.3	100.3	941.24	6,532.4	104.0	103.0
6	942.41	6,834.2	0.6	0	941.99	6,724.0	1.3	0	941.55	6,611.6	101.6	101.0	941.23	6,529.9	104.3	103.0
7	942.41	6,834.2	1.2	0	941.97	6,718.9	0	0	941.54	6,609.1	103.9	101.0	941.22	6,527.3	106.6	103.0
8	942.40	6,831.6	0	0	941.95	6,713.8	2.6	0	941.52	6,604.0	101.2	102.1	941.21	6,524.7	104.9	103.0
9	942.38	6,826.3	0	0	941.94	6,711.3	0.9	0	941.49	6,596.3	102.9	102.8	941.21	6,524.7	107.2	103.0
10	942.37	6,823.7	0.8	0	941.92	6,706.1	2.1	0	941.47	6,591.1	103.9	102.8	941.21	6,524.7	105.1	103.0
11	942.35	6,818.4	0.6	0	941.90	6,701.1	2.9	0	941.44	6,583.5	101.9	102.8	941.20	6,522.2	105.8	103.0
12	942.34	6,815.8	1.5	0	941.89	6,698.5	2.9	0	941.42	6,578.4	103.3	102.8	941.20	6,522.2	105.7	103.0
13	942.32	6,810.6	0.3	0	941.87	6,693.3	0	0	941.39	6,570.7	102.7	102.8	941.20	6,522.2	103.7	103.0
14	942.30	6,805.3	0.3	0	941.85	6,688.3	0.8	0	941.36	6,563.1	101.7	102.8	941.19	6,519.6	104.9	103.0
15	942.29	6,802.7	1.6	0	941.83	6,683.1	0.4	0	941.34	6,557.9	101.4	102.8	941.19	6,519.6	105.0	103.0
16	942.27	6,797.4	0.4	0	941.81	6,678.1	0.3	0	941.32	6,552.9	103.4	102.8	941.18	6,517.1	103.3	103.0
17	942.26	6,794.8	1.2	0	941.80	6,675.5	1.9	0	941.30	6,547.7	100.9	102.8	941.17	6,514.5	103.8	103.0
18	942.25	6,792.2	1.4	0	941.78	6,670.4	0.7	0	941.28	6,542.6	102.3	102.8	941.16	6,511.9	103.6	103.0
19	942.23	6,786.9	0.4	0	941.76	6,665.3	1.0	0	941.26	6,537.5	102.2	102.8	941.15	6,509.4	103.4	103.0
20	942.22	6,784.3	1.7	0	941.74	6,660.1	1.3	0	941.24	6,532.4	102.1	102.8	941.14	6,506.9	103.7	103.0
21	942.20	6,779.1	0.7	0	941.72	6,655.1	2.4	0	941.22	6,527.3	102.8	102.8	941.13	6,504.3	103.2	103.0
22	942.18	6,773.8	0.8	0	941.70	6,649.9	0.9	0	941.19	6,519.6	102.1	102.8	941.12	6,501.7	104.2	103.0
23	942.17	6,771.2	1.7	0	941.68	6,644.8	61.6	58.3	941.16	6,511.9	103.0	102.8	941.12	6,501.7	105.3	100.0
24	942.16	6,768.6	1.2	0	941.66	6,639.7	101.1	103.9	941.14	6,506.8	104.3	102.8	941.13	6,504.3	103.4	99.0
25	942.14	6,763.3	0	0	941.63	6,632.1	99.5	100.2	941.12	6,501.8	105.2	102.8	941.14	6,506.9	106.4	99.0
26	942.13	6,760.7	0.9	0	941.61	6,626.9	99.4	98.3	941.11	6,499.2	103.4	99.1	941.15	6,509.4	104.3	99.0
27	942.12	6,758.1	0.9	0	941.59	6,621.8	102.3	101.0	941.13	6,504.3	105.6	101.0	941.16	6,511.9	102.7	99.0
28	942.10	6,752.8	0	0	941.57	6,616.7	98.8	99.2	941.14	6,506.9	107.3	101.0	941.18	6,517.1	103.9	99.0
29	942.09	6,750.2	0.8	0	941.56	6,614.1	101.4	99.1	941.15	6,509.4	104.6	100.0	941.20	6,522.2	101.4	99.0
30	942.07	6,744.9	0.1	0	941.56	6,614.1	102.0	99.2	941.17	6,514.5	107.1	101.9	941.21	6,524.7	102.1	99.0
31					941.56	6,614.1	102.3	99.2	941.19	6,519.6	104.2	99.2				
TOTAL			23.1	0			895.5	358.4			3,197.8	3,151.0			3,129.6	3,049.3

	JUNE	JULY	AUGUST	SEPTEMBER	Year
Inf. Ac. Ft.	45.8	1,776.2	6,342.7	6,207.5	15,811.2
Outf. Ac. Ft.	0 + (153.3)	1,702.6 + (204.4)	6,248.9 + (184.8)	6,048.2 + (156.7)	14,274.8 + (1,457.4)
Maximum Mean Daily Inflow	1.7	102.3	107.3	107.2	174.2
Minimum Mean Daily Inflow	0	0	100.9	101.4	0
Storage Change	− 107.5	− 130.7	− 94.5	+ 5.1	+ 78.5

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev. 944.02 feet on 3/13-15/68 Storage 7,264.1 Acre Feet
Min. W. S. Elev. 940.42 feet on 11/16-18/67 Storage 6,327.1 Acre Feet
Max. Peak Inf. 759.6 C. F. S. from 4:00 A.M. on 3/8/68 to 6:00 A.M. on 3/8/68
Max. Peak Outf. 108.0 C. F. S. from 1:30 P.M. on 7/23/68 to 8:00 A.M. on 7/24/68

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP-JSL	
R. J. SARASUA	Hydrographer	Storage applied	RAP-JSL	
	Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 19 69

Continuous Water Stage Recorder Au

Drainage Area 33.1 Square Miles. Capacity of Reservoir 16,855.5 Ac. Ft. at Spillway Elev. 970.0 Ft. as of November 19 65

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow
1	941.22	6,527.3	101.9	99.2	941.20	6,522.2	0	0	936.43	5,387.1	0	0	936.44	5,389.30	0.2	0
2	941.23	6,529.9	102.1	99.2	941.19	6,519.6	0	0	936.42	5,384.8	0	0	936.43	5,387.1	0.7	0
3	941.24	6,532.4	101.3	99.2	941.19	6,519.6	1.2	0	936.41	5,382.6	0	0	936.43	5,387.1	0.7	0
4	941.25	6,535.0	101.6	99.2	941.18	6,517.1	0	0	936.40	5,380.3	0.5	0	936.43	5,387.1	1.4	0
5	941.26	6,537.5	101.6	99.2	941.17	6,514.5	0	0	936.40	5,380.3	1.7	0	936.43	5,387.1	0.9	0
6	941.26	6,537.5	100.3	99.2	941.16	6,512.0	0.6	0	936.39	5,378.1	0	0	936.42	5,384.8	0.2	0
7	941.25	6,535.0	88.2	88.4	941.16	6,512.0	1.3	0	936.38	5,375.9	0.5	0	936.42	5,384.8	1.4	0
8	941.23	6,529.9	71.8	72.9	941.14	6,506.9	0	0	936.37	5,373.6	0	0	936.42	5,384.8	0	0
9	941.23	6,529.9	67.7	66.0	941.12	6,501.8	0	0	936.36	5,371.4	0.4	0	936.41	5,382.6	0	0
10	941.25	6,535.0	69.9	66.0	941.11	6,499.2	0.6	0	936.36	5,371.4	1.1	0	936.41	5,382.6	0	0
11	941.26	6,537.5	68.4	66.0	941.10	6,496.7	1.3	0	936.36	5,371.4	0.1	0	936.41	5,382.6	0.9	0
12	941.28	6,542.6	68.3	64.5	941.10	6,496.7	0.8	0	936.35	5,369.1	0.1	0	936.41	5,382.6	0.2	0
13	941.28	6,542.6	66.0	64.5	941.09	6,494.1	0	0	936.35	5,369.1	1.7	0	936.59	5,422.9	20.6	0
14	941.30	6,547.8	66.4	63.0	941.10	6,596.7	3.2	0	936.33	5,364.7	0	0	936.79	5,467.7	22.5	0
15	941.31	6,550.3	65.9	63.0	941.17	6,514.5	9.4	0	936.33	5,364.7	0.7	0	936.79	5,467.7	0.3	0
16	941.31	6,550.3	64.0	61.5	941.16	6,512.0	0	0	936.35	5,369.1	2.2	0	936.79	5,467.7	0.5	0
17	941.31	6,550.3	64.0	61.5	941.16	6,512.0	0.7	0	936.35	5,369.1	0.7	0	936.79	5,467.7	0.5	0
18	941.32	6,552.9	66.0	61.5	941.15	6,509.4	0	0	936.34	5,366.9	0	0	936.92	5,496.9	15.0	0
19	941.33	6,555.4	64.9	61.5	940.50	6,346.9	0	80.0	936.33	5,364.7	0	0	937.19	5,558.5	31.2	0
20	941.34	6,558.0	64.4	61.5	939.55	6,113.8	1.8	118.0	936.35	5,369.1	2.5	0	938.20	5,792.0	117.7	0
21	941.34	6,558.0	63.4	61.5	938.50	5,862.8	3.1	128.0	936.34	5,366.9	0	0	939.45	6,089.7	151.7	0
22	941.34	6,558.0	63.6	61.5	937.35	5,595.3	0	132.7	936.33	5,364.7	0	0	942.45	6,844.7	380.9	0
23	941.25	6,535.0	32.7	41.3	936.49	5,400.5	4.3	101.5	936.32	5,362.4	0	0	944.72	7,457.8	309.7	0
24	941.23	6,529.9	0.4	0	936.49	5,400.5	0.3	0	936.31	5,360.2	0	0	947.72	8,324.6	470.5	33.0
25	941.23	6,529.9	2.2	0	936.48	5,398.3	0	0	936.41	5,382.6	11.3	0	960.34	12,677.8	2,833.7	639.0
26	941.21	6,524.8	0	0	936.47	5,396.0	1.0	0	936.47	5,396.0	6.8	0	959.87	12,494.7	850.7	943.0
27	941.20	6,522.2	1.2	0	936.47	5,396.0	1.6	0	936.47	5,396.0	1.0	0	957.65	11,653.6	507.0	930.0
28	941.20	6,522.2	1.9	0	936.46	5,393.8	0.1	0	936.46	5,393.8	0	0	954.55	10,538.5	144.9	707.0
29	941.20	6,522.2	1.5	0	936.46	5,393.8	1.5	0	936.46	5,393.8	0.5	0	954.17	10,406.2	132.4	198.0
30	941.22	6,527.3	3.3	0	936.45	5,391.5	0.2	0	936.45	5,391.5	0	0	953.59	10,207.2	98.8	198.0
31	941.21	6,524.8	0	0					936.45	5,391.5	1.3	0	953.20	10,074.2	90.1	156.0
TOTAL			1,735.4	1,681.3			33.0	560.2			33.1	0			6,185.3	3,804.0

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	Year
Inf. Ac. Ft.	3,439.9	65.5	65.8	12,268.4	15,839.6
Outf. Ac. Ft.	3,334.8 + (105.1)	1,111.1 + (87.7)	0 + (65.8)	7,553.0 + (40.5)	11,991.0 + (299.1)
Maximum Mean Daily Inflow	102.1	9.4	11.3	2,833.7	2,833.7
Minimum Mean Daily Inflow	0	0	0	0	0
Storage Change	0	− 1,133.3	0	+ 4,682.7	+ 3,549.4

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev. 960.60 feet on 1/26/69 Storage 12,677.9 Acre Feet
Min. W. S. Elev. 936.31 feet on 12/25/68 Storage 5,360.1 Acre Feet
Max. Peak Inf. 5,859.6 C. F. S. from 9:30 A.M. on 1/24/69 to 10:00 A.M. on 1/24/69
Max. Peak Outf. 977.0 C. F. S. from 2:40 P.M. on 1/26/69 to 6:00 P.M. on 1/26/69

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP JSL	
R. J. SARASUA	Hydrographer	Storage applied	RAP JSL	
	Hydrographer	Inf. & Outf. comp.	RAP JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 1969

Continuous Water Stage Recorder Au

Drainage Area 33.1 Square Miles. Capacity of Reservoir 16,855.5 Ac. Ft. at Spillway Elev. 970.0 Ft. as of November 1965 Gage Heights Read Daily

Day	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	Day
1	952.53	9,849.1	71.8	184.0	950.10	9,057.9	265.4	746.0	945.28	7,614.8	33.2	13.4	945.00	7,535.3	0.2	4.4	1
2	951.76	9,593.7	56.1	184.0	948.16	8,457.0	217.1	519.0	945.45	7,663.0	39.2	13.4	944.95	7,521.5	0	4.4	2
3	950.97	9,335.5	56.9	182.0	946.77	8,043.1	244.7	449.0	945.63	7,714.1	39.9	13.4	944.91	7,510.4	0.3	4.4	3
4	950.15	9,073.9	47.7	182.0	946.25	7,891.8	181.6	256.0	945.80	7,762.3	39.5	13.4	944.87	7,499.3	0.7	4.4	4
5	949.56	8,888.5	89.1	182.0	945.92	7,796.4	166.3	213.0	946.03	7,827.8	47.8	13.4	944.84	7,491.0	1.3	4.4	5
6	949.41	8,841.6	346.8	370.0	946.07	7,839.5	145.9	124.0	945.97	7,810.6	41.6	49.0	944.85	7,493.8	6.3	4.4	6
7	947.85	8,363.4	192.1	432.0	945.91	7,793.6	102.9	124.0	945.71	7,736.8	35.6	71.0	944.83	7,488.3	0	1.9	7
8	946.07	7,859.5	163.5	427.0	945.68	7,728.3	92.0	124.0	945.33	7,629.0	18.5	71.0	944.80	7,480.0	0	1.1	8
9	945.20	7,592.1	126.0	250.0	945.45	7,663.0	92.0	124.0	944.96	7,524.2	19.2	71.0	944.78	7,474.4	0.7	1.1	9
10	945.23	7,600.6	76.2	71.0	945.37	7,640.3	113.2	124.0	944.74	7,463.3	14.8	45.0	944.76	7,469.0	0.8	1.0	10
11	945.14	7,575.0	58.7	71.0	945.27	7,611.9	91.5	105.0	944.75	7,466.1	15.7	13.4	944.74	7,463.4	0.1	1.0	11
12	945.02	7,541.0	51.8	69.0	945.27	7,611.9	87.7	87.0	944.78	7,474.4	17.7	13.4	944.57	7,416.3	1.1	23.0	12
13	944.91	7,510.4	53.7	68.0	945.27	7,611.9	88.2	87.0	944.81	7,482.7	18.5	13.4	944.22	7,319.5	4.3	51.0	13
14	944.77	7,471.7	49.2	68.0	945.26	7,609.1	69.8	70.0	944.83	7,488.3	14.3	10.4	943.85	7,318.2	2.1	51.0	14
15	944.94	7,518.7	92.7	69.0	945.26	7,609.1	44.5	43.0	944.83	7,488.3	6.7	5.0	943.47	7,115.8	0.6	50.0	15
16	944.87	7,499.3	59.7	69.0	945.26	7,609.1	44.7	43.0	944.81	7,482.7	0.6	1.7	943.11	7,018.7	3.3	50.0	16
17	944.65	7,438.5	39.5	69.0	945.26	7,609.1	43.7	43.0	944.80	7,480.0	1.2	0	942.73	6,918.2	0	47.0	17
18	944.71	7,455.1	77.8	69.0	945.27	7,611.9	45.7	43.0	944.80	7,480.0	1.5	0	942.37	6,823.7	0.3	47.0	18
19	944.82	7,485.5	85.2	69.0	945.36	7,637.5	57.1	43.0	944.83	7,488.3	6.1	0	942.13	6,760.7	1.4	31.0	19
20	944.82	7,485.5	69.7	69.0	945.48	7,671.5	65.2	47.0	944.92	7,513.2	14.6	0	942.12	6,758.1	0.9	0.2	20
21	944.72	7,457.8	55.0	69.0	945.65	7,719.8	104.1	79.0	944.93	7,515.9	3.5	0	942.11	6,755.5	0.7	0.2	21
22	945.09	7,560.8	124.2	71.0	945.48	7,671.5	70.4	94.0	944.94	7,518.7	2.9	0	942.10	6,752.9	0.6	0.2	22
23	947.78	8,342.5	495.1	100.0	945.13	7,572.2	44.6	94.0	945.00	7,535.3	9.8	0	942.08	6,747.6	0.1	0.2	23
24	951.06	9,364.7	989.7	473.0	944.71	7,455.1	36.2	94.0	945.04	7,546.7	7.8	0	942.07	6,745.0	0.8	0.2	24
25	958.98	12,152.9	2,290.3	883.0	944.46	7,385.9	33.1	66.0	945.05	7,549.5	3.8	0	942.07	6,745.0	2.2	0.2	25
26	957.20	11,487.1	507.9	842.0	944.46	7,385.9	23.4	21.0	945.07	7,555.2	5.4	0	942.06	6,742.4	0.9	0.2	26
27	955.08	10,723.5	450.8	834.0	944.52	7,402.5	27.4	16.1	945.09	7,560.8	5.5	0	942.05	6,739.7	1.1	0.2	27
28	953.02	10,012.8	441.9	800.0	944.65	7,438.5	33.6	13.4	945.10	7,563.7	5.3	0	942.04	6,737.1	1.2	0.2	28
29					944.78	7,474.4	33.3	13.4	945.07	7,555.2	1.7	2.8	942.03	6,734.5	1.4	0.2	29
30					944.92	7,513.2	33.8	13.4	945.04	7,546.7	2.1	4.4	942.01	6,729.2	0	0	30
31					945.15	7,577.9	47.3	13.4					942.00	6,726.6	0.4	0	31
TOTAL			7,219.2	7,226.0			2,744.8	3,931.7			474.6	438.5			33.9	384.5	
Inf. Ac. Ft.		14,319.1				5,444.2				941.4				67.4		36,611.7	
Outf. Ac. Ft.		14,332.6 + (48.0)				7,798.4 + (80.7)				869.8 + (102.7)				762.6 + (124.9)		35,754.4 + (655.4)	
MAXIMUM Mean Daily Inflow		2,290.0				265.4				47.8				6.3		2,833.7	
Minimum Mean Daily Inflow		39.6				23.4				0.6				0		0	
Storage Change		- 61.4				- 2,434.9				- 31.2				- 820.0		+ 201.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	960.60	feet	on	1/26/69	Storage	12,677.9	Acre Feet		RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	936.31	feet	on	12/25/68	Storage	5,360.1	Acre Feet		G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP JSL	
Max. Peak Inf.	5,859.6	C.F.S. from	9:30 A.M.	on	1/24/69	to	10:00 A.M.	on	1/24/69	R. J. SARASUA	Hydrographer	Storage applied	RAP JSL
Max. Peak Outf.	977.0	C.F.S. from	2:40 P.M.	on	1/26/69	to	6:00 P.M.	on	1/26/69		Hydrographer	Inf. & Outf. comp.	RAP JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 1969

Continuous Water Stage Recorder Au

Drainage Area 33.1 Square Miles. Capacity of Reservoir 16,855.5 Ac. Ft. at Spillway Elev. 970.0 Ft. as of November 1965 Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	941.99	6,724.0	0.6	0	941.78	6,670.4	2.2	0	941.30	6,547.8	0.6	0	940.73	6,404.00	0.6	0	1
2	941.98	6,721.5	0	0	941.76	6,665.3	0.5	0	941.28	6,542.6	0.8	0	940.71	6,399.1	0.3	0	2
3	941.97	6,718.9	0.2	0	941.75	6,662.7	1.5	0	941.26	6,537.5	0.6	0	940.70	6,396.6	1.9	0	3
4	941.96	6,716.4	0.3	0	941.73	6,657.6	0.3	0	941.24	6,532.4	0.6	0	940.68	6,391.6	0.6	0	4
5	941.95	6,713.8	0.4	0	941.71	6,652.5	0	0	941.23	6,529.9	2.2	0	940.66	6,386.6	0.7	0	5
6	941.94	6,711.3	0.2	0	941.70	6,650.0	1.0	0.6	941.21	6,524.8	0.5	0	940.64	6,381.7	0.4	0	6
7	941.93	6,708.7	0.4	0	941.69	6,647.4	0.1	0	941.19	6,519.6	1.4	0	940.63	6,379.2	1.3	0	7
8	941.92	6,706.2	0	0	941.68	6,644.8	1.1	0	941.17	6,514.5	0.6	0	940.61	6,374.2	0.2	0	8
9	941.91	6,703.6	0.4	0	941.66	6,639.7	0	0	941.16	6,512.0	2.1	0	940.60	6,371.7	1.4	0	9
10	941.91	6,703.6	1.2	0	941.65	6,637.2	1.5	0	941.14	6,506.9	0.7	0	940.58	6,366.8	0.9	0	10
11	941.91	6,703.6	1.1	0	941.63	6,632.1	0.1	0	941.12	6,501.8	0.9	0	940.56	6,361.8	0.5	0	11
12	941.90	6,701.0	0	0	941.62	6,629.5	0.4	0	941.10	6,496.6	0.4	0	940.54	6,356.8	0.2	0	12
13	941.90	6,701.0	1.6	0	941.61	6,627.0	1.9	0	941.09	6,494.1	2.4	0	940.52	6,351.9	0.2	0	13
14	941.90	6,701.0	1.7	0	941.59	6,621.8	0.1	0	941.07	6,489.0	0.3	0	940.50	6,346.9	0	0	14
15	941.90	6,701.0	0.4	0	941.58	6,619.3	2.0	0	941.05	6,483.9	0.6	0	940.49	6,344.4	0.8	0	15
16	941.89	6,698.5	0	0	941.56	6,614.2	0.6	0	941.03	6,478.8	0.2	0	940.48	6,341.9	0.9	0	16
17	941.89	6,698.5	1.4	0	941.55	6,611.6	1.8	0	941.02	6,476.2	2.1	0	940.47	6,339.4	0.5	0	17
18	941.89	6,698.5	1.4	0	941.53	6,606.5	0.4	0	941.00	6,471.1	0.1	0	940.46	6,337.0	0.6	0	18
19	941.88	6,695.9	0.8	0	941.52	6,604.0	2.0	0	940.98	6,466.1	0.6	0	940.44	6,332.0	0	0	19
20	941.87	6,693.4	1.0	0	941.50	6,598.8	0	0	940.96	6,461.2	1.1	0	940.43	6,329.5	0.5	0	20
21	941.86	6,690.8	0	0	941.49	6,596.3	1.7	0	940.93	6,453.7	1.2	0	940.41	6,324.5	0	0	21
22	941.86	6,690.8	1.4	0	941.47	6,591.2	0.8	0	940.91	6,448.7	2.0	0	940.39	6,319.6	0	0	22
23	941.86	6,690.8	1.1	0	941.45	6,586.1	0.8	0	940.89	6,443.8	2.3	0	940.38	6,317.1	0.9	0	23
24	941.86	6,690.8	1.3	0	941.43	6,581.0	0.3	0	940.87	6,438.8	0.5	0	940.37	6,314.6	0.4	0	24
25	941.85	6,688.3	0	0	941.42	6,578.4	2.0	0	940.85	6,433.8	0.7	0	940.36	6,312.1	0.6	0	25
26	941.84	6,685.7	0	0	941.40	6,573.3	0.1	0	940.83	6,428.9	0.7	0	940.35	6,309.6	0.4	0	26
27	941.83	6,683.2	0.7	0	941.38	6,568.2	0	0.3	940.81	6,423.9	0.1	0	940.34	6,307.2	0.5	0	27
28	941.82	6,680.6	0.6	0	941.37	6,565.6	1.6	0	940.80	6,421.4	1.4	0	940.33	6,304.7	1.0	0	28
29	941.81	6,678.1	1.2	0	941.35	6,560.5	0.1	0	940.78	6,416.5	0.2	0	940.32	6,302.2	1.7	0	29
30	941.79	6,672.9	0.9	0	941.33	6,555.4	0.4	0	940.77	6,414.0	1.4	0	940.30	6,297.2	0.2	0	30
31					941.32	6,552.9	2.4	0	940.75	6,409.0	0.2	0					31
TOTAL			20.3	0			27.7	0.9			29.5	0			18.2	0	
Inf. Ac. Ft.		40.3				54.9				58.5				36.3		36,801.5	
Outf. Ac. Ft.		0 + (94.1)				0 + (175.0)				0 + (202.3)				0 + (148.0)		35,754.4+(1,274.8)	
MAXIMUM Mean Daily Inflow		1.7				2.4				2.4				1.9		2,833.7	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change		- 53.7				- 120.0				- 143.9				- 111.8		- 227.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	960.60	feet	on	1/26/69	Storage	12,677.9	Acre Feet		RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	936.31	feet	on	12/25/68	Storage	5,360.1	Acre Feet		G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP JSL	
Max. Peak Inf.	5,859.6	C.F.S. from	9:30 A.M.	on	1/24/69	to	10:00 A.M.	on	1/24/69	R. J. SARASUA	Hydrographer	Storage applied	RAP JSL
Max. Peak Outf.	977.0	C.F.S. from	2:40 P.M.	on	1/26/69	to	6:00 P.M.	on	1/26/69		Hydrographer	Inf. & Outf. comp.	RAP JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of LIVE OAK Dam

In Live Oak Canyon for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 2.28 Square Miles. Capacity of Reservoir 215.4 Ac. Ft. at Spillway Elev. 1,496.4 Ft. as of March 1967 Gage Heights Read at Various

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1			0.1	0.1	1.454.1	0.7	0	0	1.464.8	20.3	0.1	0	1.469.2	33.8	0.4	0	1
2			0.1	0.1	1.454.3	0.8	0.1	0	1.464.9	20.5	0.1	0	1.469.3	34.1	0.2	0	2
3			0.1	0.1	1.454.6	1.1	0.1	0	1.465.0	20.8	0.1	0	1.469.5	34.8	0.4	0	3
4			0.1	0.1	1.454.9	1.3	0.1	0	1.465.1	21.1	0.1	0	1.469.6	35.2	0.2	0	4
5			0.1	0.1	1.455.2	1.7	0.2	0	1.465.2	21.4	0.1	0	1.469.7	35.5	0.2	0	5
6			0.1	0.1	1.455.4	1.9	0.1	0	1.465.3	21.6	0.1	0	1.469.8	35.8	0.2	0	6
7			0.1	0.1	1.455.6	2.1	0.1	0	1.465.5	22.2	0.3	0	1.470.0	36.6	0.4	0	7
8			0.1	0.1	1.455.9	2.5	0.2	0	1.465.6	22.5	0.1	0	1.470.1	36.9	0.2	0	8
9			0.1	0.1	1.456.1	2.7	0.1	0	1.465.7	22.8	0.1	0	1.470.2	37.3	0.2	0	9
10			0.1	0.1	1.456.3	3.0	0.1	0	1.465.8	23.0	0.1	0	1.470.3	37.6	0.2	0	10
11			0.1	0.1	1.456.4	3.1	0.1	0	1.465.9	23.3	0.1	0	1.470.4	38.0	0.2	0	11
12			0.1	0.1	1.456.6	3.4	0.1	0	1.466.0	23.6	0.1	0	1.470.5	38.4	0.2	0	12
13			0.1	0.1	1.456.8	3.7	0.1	0	1.466.1	23.9	0.1	0	1.470.6	38.8	0.2	0	13
14			0.1	0.1	1.457.0	4.0	0.1	0	1.466.1	23.9	0	0	1.470.7	39.1	0.2	0	14
15			0.1	0.1	1.457.1	4.1	0.1	0	1.466.2	24.2	0.1	0	1.470.9	39.8	0.4	0	15
16			0.1	0.1	1.457.3	4.4	0.2	0	1.466.3	24.5	0.1	0	1.471.0	40.2	0.2	0	16
17			0.1	0.1	1.457.5	4.8	0.2	0	1.466.4	24.8	0.1	0	1.471.1	40.6	0.2	0	17
18			0.1	0.1	1.457.6	4.9	0.1	0	1.466.9	26.3	0.7	0	1.471.2	41.0	0.2	0	18
19			0	0	1.462.1	13.6	4.4	0	1.467.3	27.5	0.6	0	1.471.3	41.4	0.2	0	19
20			0	0	1.462.4	14.3	0.4	0	1.467.5	28.1	0.3	0	1.471.4	41.7	0.2	0	20
21			0	0	1.463.3	16.4	1.1	0	1.467.7	28.8	0.3	0	1.471.5	42.1	0.2	0	21
22			0	0	1.463.5	16.9	0.2	0	1.467.8	29.1	0.2	0	1.471.6	42.5	0.2	0	22
23			0	0	1.463.7	17.4	0.2	0	1.468.0	29.7	0.3	0	1.471.6	42.5	0	0	23
24			0	0	1.463.8	17.7	0.1	0	1.468.1	30.0	0.2	0	1.471.7	42.9	0.2	0	24
25			0	0	1.464.0	18.2	0.2	0	1.468.3	30.7	0.3	0	1.471.8	43.2	0.2	0	25
26			0	0	1.464.1	18.4	0.1	0	1.468.4	31.0	0.2	0	1.472.0	44.0	0.4	0	26
27			0	0	1.464.2	18.7	0.1	0	1.468.6	31.7	0.3	0	1.472.2	44.8	0.4	0	27
28			0	0	1.464.3	19.0	0.1	0	1.468.7	32.0	0.2	0	1.472.3	45.2	0.2	0	28
29	1.453.4	0.3	0.2	0	1.464.4	19.2	0.1	0	1.468.8	32.4	0.2	0	1.472.4	45.6	0.2	0	29
30	1.453.7	0.4	0.1	0	1.464.7	20.0	0.4	0	1.468.9	32.7	0.2	0	1.472.5	46.0	0.2	0	30
31	1.454.0	0.6	0.1	0					1.469.0	33.0	0.2	0	1.472.6	46.3	0.2	0	31
TOTAL			2.1	1.8			9.7	0			6.5	0			6.7	0	
Inf. Ac. Ft.		4.1				19.4				13.0				13.2		49.7	
Outf. Ac. Ft.		3.5				0				0				0		3.5	
MAXIMUM Mean Daily Inflow		0.1				4.3				0.7				0.3		4.3	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change		+ 0.6				+ 19.4				+ 13.0				+ 13.2		+ 46.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,477.6	feet on	3/8/68	Storage	69.2	Acre Feet		RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,452.0	feet on	VARIOUS DAYS	Storage	0	Acre Feet		G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	38.6	C. F. S. from	4:00 A.M. on	3/8/68	to	6:00 A.M. on	3/8/68	R. J. SARASUA	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Outf.	5.3	C. F. S. from	10:00 A.M. on	4/1/68	to	7:30 A.M. on	4/2/68		Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of LIVE OAK Dam

In Live Oak Canyon for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 2.28 Square Miles. Capacity of Reservoir 215.4 Ac. Ft. at Spillway Elev. 1,496.4 Ft. as of March 1967 Gage Heights Read at Various Times

Day	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	Day
1	1.472.6	46.3	0	0	1.475.5	58.3	0.2	0	1.472.3	45.2	0.5	3.3	1.455.0	1.4	0.3	0.3	1
2	1.472.7	46.7	0.2	0	1.475.6	58.8	0.2	0	1.470.8	39.5	1.2	4.1	1.454.1	0.7	0.1	0.5	2
3	1.472.8	47.1	0.2	0	1.475.7	59.2	0.2	0	1.469.0	33.0	0.4	3.6	1.454.2	0.8	0.1	0.1	3
4	1.472.9	47.5	0.2	0	1.475.7	59.2	0	0	1.467.4	27.8	0.8	3.4	1.454.5	1.0	0.2	0.1	4
5	1.473.0	47.9	0.2	0	1.475.8	59.6	0.2	0	1.465.8	23.0	0.5	2.9	1.454.6	1.1	0.1	0.1	5
6	1.473.0	47.9	0	0	1.475.9	60.1	0.2	0	1.464.3	19.0	0.8	2.9	1.454.7	1.2	0.1	0.1	6
7	1.473.1	48.3	0.2	0	1.476.1	61.0	0.4	0	1.462.8	15.2	0.8	2.7	1.454.7	1.2	0.1	0.1	7
8	1.473.2	48.7	0.2	0	1.477.6	68.2	6.0	2.4	1.461.3	11.8	0.6	2.3	1.454.8	1.3	0.1	0.1	8
9	1.473.3	49.1	0.2	0	1.477.1	65.7	1.1	2.4	1.460.0	9.2	0.1	1.5	1.454.2	0.8	0	0.3	9
10	1.473.4	49.5	0.2	0	1.476.2	61.5	0.9	3.0	1.459.0	7.3	0.5	1.5	1.454.4	0.9	0.2	0.1	10
11	1.473.5	49.9	0.2	0	1.475.7	59.2	1.2	2.3	1.457.6	4.9	0.3	1.5	1.454.6	1.1	0.2	0.1	11
12	1.473.5	49.9	0	0	1.475.5	58.3	0.8	1.3	1.456.2	2.9	0.3	1.3	1.454.4	0.9	0.2	0.3	12
13	1.473.8	51.1	0.6	0	1.474.3	53.2	0.4	3.0	1.455.1	1.6	0.2	0.9	1.454.3	0.8	0.2	0.3	13
14	1.474.0	51.9	0.4	0	1.472.6	46.3	0.3	3.8	1.455.0	1.4	0.4	0.5	1.454.5	1.0	0.2	0.1	14
15	1.474.1	52.3	0.2	0	1.472.0	44.0	0.3	1.5	1.454.5	1.0	0.3	0.5	1.454.7	1.2	0.2	0.1	15
16	1.474.2	52.8	0.2	0	1.472.2	44.8	0.4	0	1.454.4	0.9	0.4	0.4	1.454.9	1.4	0.2	0.1	16
17	1.474.3	53.2	0.2	0	1.472.4	45.6	0.4	0	1.454.5	1.0	0.1	0.1	1.455.0	1.4	0.1	0.1	17
18	1.474.4	53.6	0.2	0	1.472.6	46.3	0.4	0	1.454.4	0.9	0.1	0.1	1.455.2	1.7	0.2	0.1	18
19	1.474.5	54.0	0.2	0	1.472.7	46.7	0.2	0	1.454.5	1.0	0.1	0.1	1.455.4	1.9	0.2	0.1	19
20	1.474.6	54.4	0.2	0	1.472.8	47.1	0.2	0	1.454.5	1.0	0.1	0.1	1.455.5	2.0	0.2	0.1	20
21	1.474.7	54.9	0.2	0	1.472.9	47.5	0.2	0	1.454.5	1.0	0.1	0.1	1.455.7	2.2	0.2	0.1	21
22	1.474.8	55.3	0.2	0	1.473.0	47.9	0.2	0	1.454.5	1.0	0.1	0.1	1.455.8	2.4	0.2	0.1	22
23	1.474.9	55.7	0.2	0	1.473.1	48.3	0.2	0	1.454.5	1.0	0.1	0.1	1.455.6	2.1	0.2	0.3	23
24	1.475.0	56.1	0.2	0	1.473.2	48.7	0.2	0	1.454.8	1.3	0.2	0.1	1.455.0	1.4	0	0.3	24
25	1.475.1	56.6	0.2	0	1.473.3	49.1	0.2	0	1.454.7	1.2	0.2	0.3	1.454.7	1.2	0.2	0.3	25
26	1.475.2	57.0	0.2	0	1.473.4	49.5	0.2	0	1.454.6	1.1	0.2	0.3	1.454.7	1.2	0.1	0.1	26
27	1.475.3	57.4	0.2	0	1.473.4	49.5	0	0	1.454.7	1.2	0.3	0.3	1.454.8	1.3	0.1	0.1	27
28	1.475.4	57.9	0.2	0	1.473.5	49.9	0.2	0	1.454.9	1.4	0.4	0.3	1.454.9	1.4	0.1	0.1	28
29	1.475.4	57.9	0	0	1.473.6	50.3	0.2	0	1.455.0	1.4	0.3	0.3	1.455.0	1.4	0.1	0.1	29
30					1.473.6	50.3	0	0	1.454.9	1.4	0.2	0.3	1.455.1	1.6	0.2	0.1	30
31					1.473.7	50.7	0.2	0					1.455.3	1.8	0.1	0	31
TOTAL			5.8	0			16.0	19.7			11.0	35.9			5.0	4.8	
Inf. Ac. Ft.		11.5				31.9				21.8				10.0		124.9	
Outf. Ac. Ft.		0				39.0				71.2				9.5		123.2	
MAXIMUM Mean Daily Inflow		0.6				6.0				1.2				0.3		6.0	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change		+ 11.5				- 7.1				- 49.3				+ 0.4		+ 1.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,477.8	feet on	3/8/68	Storage	69.2	Acre Feet		RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,452.0	feet on	VARIOUS DAYS	Storage	0	Acre Feet		G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	38.6	C. F. S. from	4:00 A.M. on	3/8/68	to	6:00 A.M. on	3/8/68	R. J. SARASUA	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Outf.	5.3	C. F. S. from	10:00 A.M. on	4/1/68	to	7:30 A.M. on	4/2/68		Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS

760138N-588 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of LIVE OAK Dam

In Live Oak Canyon for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 2.28 Square Miles. Capacity of Reservoir 215.4 Ac. Ft. at Spillway Elev. 1,496.4 Ft. as of March 1967 Gage Heights Read at Various Times

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1.455.4	1.9	0	0	1.353.3	0.2	0	0			0	0			0	0	1
2	1.455.6	2.1	0.1	0	1.353.2	0.2	0	0			0	0			0	0	2
3	1.455.7	2.2	0	0			0	0			0	0			0	0	3
4	1.455.9	2.5	0.1	0			0	0			0	0			0	0	4
5	1.456.0	2.6	0	0			0	0			0	0			0	0	5
6	1.456.1	2.7	0.1	0			0	0			0	0			0	0	6
7	1.456.3	3.0	0.1	0			0	0			0	0			0	0	7
8	1.456.4	3.1	0.1	0			0	0			0	0			0	0	8
9	1.456.5	3.3	0.1	0			0	0			0	0			0	0	9
10	1.456.6	3.4	0.1	0			0	0			0	0			0	0	10
11	1.456.7	3.6	0.1	0			0	0			0	0			0	0	11
12	1.456.8	3.7	0.1	0			0	0			0	0			0	0	12
13	1.456.9	3.8	0.1	0			0	0			0	0			0	0	13
14	1.457.0	4.0	0.1	0			0	0			0	0			0	0	14
15	1.457.0	4.0	0	0			0	0			0	0			0	0	15
16	1.457.1	4.1	0.1	0			0	0			0	0			0	0	16
17	1.457.2	4.3	0.1	0	NO STORAGE		0	0	NO STORAGE		0	0	NO STORAGE		0	0	17
18	1.457.2	4.3	0	0			0	0			0	0			0	0	18
19	1.457.3	4.4	0.1	0			0	0			0	0			0	0	19
20	1.457.4	4.6	0.1	0			0	0			0	0			0	0	20
21	1.457.4	4.6	0	0			0	0			0	0			0	0	21
22	1.457.5	4.8	0.1	0			0	0			0	0			0	0	22
23	1.457.5	4.8	0	0			0	0			0	0			0	0	23
24	1.457.3	4.4	0.2	0.4			0	0			0	0			0	0	24
25	1.456.6	3.4	0.4	0.9			0	0			0	0			0	0	25
26	1.455.9	2.5	0.3	0.8			0	0			0	0			0	0	26
27	1.455.2	1.7	0.4	0.8			0	0			0	0			0	0	27
28	1.453.6	0.4	0	0.6			0	0			0	0			0	0	28
29	1.453.5	0.4	0	0			0	0			0	0			0	0	29
30	1.453.4	0.3	0	0			0	0			0	0			0	0	30
31											0	0					31
TOTAL			2.9	3.5			0	0			0	0			0	0	
Inf. Ac. Ft.		5.9				0				0				0		130.8	
Outf. Ac. Ft.		6.9 + (0.3)				0				0				0		130.1 + (0.7)	
Maximum Mean Daily Inflow		0.3				0				0				0		6.0	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change		− 1.4				− 0.3				0				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,477.8	feet	on	3/8/68	Storage	69.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,452.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	38.6	C.F.S. from	4:00 A.M.	on	3/8/68	to	6:00 A.M.	on	3/8/68	R. J. SARASUA	Hydrographer	Storage applied	RAP-JSL
Max. Peak Outf.	5.3	C.F.S. from	10:00 A.M.	on	4/1/68	to	7:30 A.M.	on	4/2/68		Hydrographer	Inf. & Outf. comp.	RAP-JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

760138N-588 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of LIVE OAK Dam

In Live Oak Canyon for the Year Ending September 30, 1969

175.7 February 1969
162.2 January 1969
215.4 Ac. Ft. at Spillway Elev. 1,496.4 Ft. as of March 1967

Continuous Water Stage Recorder Au

Drainage Area 2.28 Square Miles. Capacity of Reservoir

Gage Heights Various Times

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1			0	0			0	0			0	0			0	0.0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0	1452.4	0.1	0.1	0	19
20			0	0			0	0			0	0	1456.7	3.6	1.8	0	20
21			0	0			0	0			0	0	1468.3	30.7	13.7	0	21
22			0	0			0	0			0	0	1484.8	112.9	44.4	3.0	22
23			0	0			0	0			0	0	1483.2	101.8	2.0	7.6	23
24			0	0			0	0			0	0	1486.8	127.6	23.1	10.1	24
25			0	0			0	0			0	0	1493.4	162.3(1)	151.9	123.0	25
26			0	0			0	0			0	0	1478.8	59.3	70.1	122.0	26
27			0	0			0	0			0	0	1477.4	52.8	13.3	16.5	27
28			0	0			0	0			0	0	1479.3	61.7	9.7	5.2	28
29			0	0			0	0			0	0	1477.9	55.0	4.4	7.8	29
30			0	0			0	0			0	0	1476.2	47.8	3.0	6.7	30
31			0	0							0	0	1476.1	47.3	2.9	3.1	31
TOTAL			0	0			0	0			0	0			340.4	305.1	
Inf. Ac. Ft.		0				0				0				675.1		675.1	
Outf. Ac. Ft.		0				0				0				605.1		605.1	
Maximum Mean Daily Inflow		0				0				0				151.8		151.8	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change		0				0				0				+ 47.3		+ 47.3 (1)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,497.5	feet	on	1/25/69	Storage	286.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,452.0	feet	on	SEPTEMBER	Storage	0	Acre Feet	G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP JSL	
Max. Peak Inf.	351.0	C.F.S. from	10:25 A.M.	on	1/25/69	to	10:30 A.M.	on	1/25/69	R. J. SARASUA	Hydrographer	Storage applied	RAP JSL
Max. Peak Outf.	290.0	C.F.S. from	8:25 A.M.	on	1/25/69	to	3:00 P.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP JSL

REMARKS (1) 22.6 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE X, 1/25/69.

76D138N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of LIVE OAK Dam

In Live Oak Canyon for the Year Ending September 30, 1969

Drainage Area 2.28 Square Miles. Capacity of Reservoir 175.7 / 162.2 / 215.4 Ac. Ft. at Spillway Elev. 1,496.4 Ft. as of February 1969 / January 1969 / March 1967

Continuous Water Stage Recorder Au

Gage Heights Various Times

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,476.1	47.3	2.3	2.3	1,480.1	58.6	12.2	12.4	1,483.3	74.1	3.0	2.7	1,484.5	80.8	1.8	2.1	1
2	1,475.9	46.6	1.9	2.3	1,481.0	62.6	10.1	8.1	1,483.6	75.8	3.5	2.7	1,484.4	80.3	1.8	2.1	2
3	1,475.8	46.2	1.9	2.1	1,481.5	65.0	8.1	6.9	1,484.0	77.9	3.2	2.1	1,484.3	79.7	1.8	2.1	3
4	1,475.7	45.8	1.7	1.9	1,481.8	66.4	7.6	6.9	1,484.3	79.7	3.0	2.1	1,484.3	79.7	2.1	2.1	4
5	1,476.2	47.8	2.9	1.9	1,481.8	66.4	6.9	6.9	1,484.7	82.0	3.2	2.1	1,484.2	79.1	1.6	1.9	5
6	1,477.2	51.9	25.1	23.0	1,481.7	65.9	6.7	6.9	1,484.9	83.2	2.7	2.1	1,484.2	79.1	1.7	1.7	6
7	1,476.7	49.8	9.8	10.9	1,481.5	65.0	5.9	6.4	1,485.1	84.4	2.7	2.1	1,484.1	78.5	1.4	1.7	7
8	1,477.8	54.6	6.5	4.1	1,481.1	63.1	5.9	6.9	1,485.2	85.0	2.4	2.1	1,484.0	77.9	1.4	1.7	8
9	1,477.1	51.5	3.7	5.3	1,480.6	60.8	5.6	6.7	1,485.4	86.2	2.9	2.3	1,483.9	77.4	1.6	1.9	9
10	1,476.1	47.3	2.7	4.8	1,480.5	60.4	6.5	6.7	1,485.6	87.4	2.9	2.3	1,483.7	76.3	1.4	1.9	10
11	1,476.1	47.3	3.1	3.1	1,479.9	57.7	5.4	6.7	1,485.7	88.1	2.6	2.3	1,483.5	75.2	1.4	1.9	11
12	1,476.5	49.0	3.7	2.9	1,479.5	56.1	5.6	6.4	1,485.7	88.1	2.3	2.3	1,483.4	74.7	1.6	1.9	12
13	1,476.5	49.0	2.9	2.9	1,479.1	54.4	5.3	6.1	1,485.7	88.1	2.3	2.3	1,483.3	74.1	1.0	1.3	13
14	1,476.2	47.8	2.3	2.9	1,479.1	54.4	4.7	4.7	1,485.7	88.1	2.3	2.3	1,483.3	74.1	1.5	1.5	14
15	1,476.7	49.8	3.5	2.5	1,479.3	55.2	4.5	4.1	1,485.7	88.1	2.3	2.3	1,483.3	74.1	1.3	1.3	15
16	1,476.6	49.4	2.1	2.3	1,479.6	56.5	4.4	3.8	1,485.7	88.1	2.3	2.3	1,483.2	73.6	1.0	1.3	16
17	1,476.6	49.4	2.3	2.3	1,479.9	57.7	4.4	3.8	1,485.7	88.1	2.3	2.3	1,483.1	73.0	1.0	1.3	17
18	1,477.6	53.7	4.5	2.3	1,480.1	58.6	3.8	3.4	1,485.7	88.1	2.3	2.3	1,483.0	72.5	1.0	1.3	18
19	1,478.4	57.4	4.4	2.5	1,480.0	58.2	2.9	3.1	1,485.5	86.8	1.7	2.3	1,483.0	72.5	1.3	1.3	19
20	1,479.3	61.7	4.7	2.5	1,480.9	62.2	4.9	2.9	1,485.4	86.2	2.0	2.3	1,483.0	72.5	1.3	1.3	20
21	1,479.8	64.2	3.8	2.5	1,481.6	65.5	4.6	2.9	1,485.3	85.6	2.0	2.3	1,482.9	72.0	1.1	1.3	21
22	1,480.0	65.3	5.0	4.5	1,482.1	67.9	4.1	2.9	1,485.3	85.6	2.3	2.3	1,481.8	66.4	0.3	3.1	22
23	1,484.5	91.8	34.4	21.0	1,482.4	69.4	3.7	2.9	1,485.2	85.0	2.0	2.3	1,480.2	59.0	0.9	4.6	23
24	1,488.5	120.6	68.5	54.0	1,482.6	70.4	3.4	2.9	1,485.2	85.0	2.3	2.3	1,478.9	53.6	1.6	4.3	24
25	1,482.0	67.4(2)	102.7	125.0	1,482.8	71.5	3.4	2.9	1,485.1	84.3	2.0	2.3	1,477.6	48.6	0.9	3.4	25
26	1,480.6	60.8	30.7	34.0	1,482.9	72.0	3.2	2.9	1,485.0	83.8	1.8	2.1	1,476.5	44.6	0.9	2.9	26
27	1,480.6	60.8	17.3	17.3	1,483.0	72.5	3.2	2.9	1,484.8	82.6	1.5	2.1	1,474.6	38.1	0.8	4.1	27
28	1,480.2	59.0	15.0	15.9	1,483.0	72.5	2.9	2.9	1,484.7	82.0	1.8	2.1	1,473.1	33.2	1.0	3.4	28
29					1,483.1	73.0	3.2	2.9	1,484.7	82.0	2.1	2.1	1,471.2	27.5	1.7	4.6	29
30					1,483.1	73.0	2.7	2.7	1,484.6	81.4	1.8	2.1	1,469.2	21.9	1.0	3.8	30
31					1,483.2	73.6	3.0	2.7					1,468.0	18.8	1.1	2.7	31
TOTAL			369.3	359.0			158.6	151.3			71.5	67.6			40.2	71.8	

	FEBRUARY	MARCH	APRIL	MAY	
Inf. Ac. Ft.	732.6	314.6	141.9	79.8	1,944.0
Outf. Ac. Ft.	712.0	300.0	134.0	142.4	1,893.5
Maximum Mean Daily Inflow	102.6	12.1	3.5	2.1	151.8
Minimum Mean Daily Inflow	1.7	2.7	1.5	0.2	0
Storage Change	+ 11.6	+ 14.5	+ 7.8	− 62.6	+18.8 (1)(2)

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,497.5	feet	on	1/25/69	Storage	288.4	Acre Feet			
Min. W. S. Elev.	1,452.0	feet	on	SEPTEMBER	Storage	0	Acre Feet			
Max. Peak Inf.	351.0	C. F. S. from	10:25 A.M.	on	1/25/69	to	10:30 A.M.	on	1/25/69	
Max. Peak Outf.	250.0	C. F. S. from	8:25 A.M.	on	1/25/69	to	3:00 P.M.	on	1/25/69	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP JSL	
R. J. SARASUA	Hydrographer	Storage applied	RAP JSL	
	Hydrographer	Inf. & Outf. comp.	RAP JSL	

REMARKS (1) 22.6 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XI, 1/25/69.
(2) 8.9 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XI, 2/25/69.

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DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of LIVE OAK Dam

In Live Oak Canyon for the Year Ending September 30, 1969

Drainage Area 2.28 Square Miles. Capacity of Reservoir 175.7 / 162.2 / 215.4 Ac. Ft. at Spillway Elev. 1,496.4 Ft. as of February 1969 / January 1969 / March 1967

Continuous Water Stage Recorder Au

Gage Heights Various Times

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1,466.8	15.9	1.0	2.5	1,460.4	4.1	0.8	0.9	1,458.3	1.9	0.8	0.8	1,455.3	0.3	0.8	0.8	1
2	1,465.8	13.6	1.1	2.3	1,460.3	3.9	0.8	0.9	1,458.3	1.9	0.8	0.8	1,455.1	0.2	0.8	0.8	2
3	1,462.4	7.0	1.0	4.3	1,460.3	3.9	0.9	0.9	1,458.2	1.8	0.8	0.8	1,454.9	0.1	0.7	0.7	3
4	1,461.9	6.2	1.1	1.6	1,460.2	3.8	0.9	1.0	1,458.1	1.8	0.8	0.8	1,454.3	0	0.6	0.6	4
5	1,462.8	7.7	1.8	1.0	1,460.1	3.7	0.9	1.0	1,458.1	1.8	0.9	0.9			0.4	0.4	5
6	1,461.5	5.6	0.9	1.9	1,460.1	3.7	1.2	1.2	1,458.0	1.7	0.9	0.9			0.4	0.4	6
7	1,461.6	5.7	1.3	1.2	1,460.0	3.6	1.1	1.2	1,457.9	1.6	0.9	0.9			0.7	0.7	7
8	1,461.9	6.2	1.4	1.2	1,459.9	3.4	1.1	1.2	1,457.8	1.6	0.8	0.8			0.5	0.5	8
9	1,461.9	6.2	1.0	1.0	1,459.9	3.4	1.2	1.2	1,457.7	1.5	0.7	0.7			0.5	0.5	9
10	1,461.8	6.0	1.4	1.5	1,459.8	3.4	1.1	1.2	1,457.6	1.4	0.5	0.5			0.5	0.5	10
11	1,461.7	5.9	1.2	1.3	1,459.7	3.2	1.1	1.2	1,457.5	1.4	0.4	0.4			0.5	0.5	11
12	1,461.7	5.9	1.3	1.3	1,459.7	3.2	1.0	1.0	1,457.4	1.3	0.4	0.4			0.4	0.4	12
13	1,461.6	5.7	1.1	1.2	1,459.6	3.1	0.8	0.9	1,457.3	1.2	0.4	0.4			0.4	0.4	13
14	1,461.5	5.6	1.1	1.2	1,459.5	3.0	0.8	0.9	1,457.2	1.2	0.5	0.5			0.4	0.4	14
15	1,461.5	5.6	1.2	1.2	1,459.5	3.0	0.9	0.9	1,457.1	1.1	0.7	0.7			0.4	0.4	15
16	1,461.4	5.4	1.1	1.2	1,459.4	2.9	0.8	0.9	1,457.0	1.0	0.7	0.7		NO STORAGE	0.3	0.3	16
17	1,461.3	5.3	1.1	1.2	1,459.3	2.8	0.8	0.9	1,456.9	1.0	0.7	0.7			0.4	0.4	17
18	1,461.3	5.3	1.2	1.2	1,459.3	2.8	0.8	0.8	1,456.8	0.9	0.7	0.7			0.4	0.4	18
19	1,461.2	5.1	1.1	1.2	1,459.2	2.7	0.8	0.9	1,456.7	0.9	0.7	0.7			0.3	0.3	19
20	1,461.1	5.0	1.1	1.2	1,459.1	2.6	0.8	0.9	1,456.6	0.8	0.7	0.7			0.4	0.4	20
21	1,461.1	5.0	1.3	1.3	1,459.1	2.6	0.7	0.7	1,456.5	0.8	0.7	0.7			0.4	0.4	21
22	1,461.0	4.8	1.2	1.3	1,459.0	2.5	0.9	1.0	1,456.4	0.7	0.8	0.8			0.4	0.4	22
23	1,460.9	4.7	1.2	1.3	1,458.9	2.4	1.0	1.0	1,456.3	0.6	0.7	0.7			0.4	0.4	23
24	1,460.9	4.7	1.3	1.3	1,458.9	2.4	1.0	1.0	1,456.2	0.6	0.7	0.7			0.4	0.4	24
25	1,460.8	4.6	1.4	1.5	1,458.8	2.4	1.2	1.2	1,456.1	0.6	0.7	0.7			0.4	0.4	25
26	1,460.7	4.4	1.1	1.2	1,458.7	2.3	1.2	1.3	1,456.0	0.5	0.7	0.7			0.4	0.4	26
27	1,460.7	4.4	1.2	1.2	1,458.7	2.3	1.3	1.3	1,455.9	0.5	0.7	0.7			0.7	0.7	27
28	1,460.6	4.3	1.1	1.2	1,458.6	2.2	1.2	1.3	1,455.8	0.4	0.7	0.7			0.7	0.7	28
29	1,460.5	4.2	0.8	0.9	1,458.5	2.1	1.2	1.3	1,455.7	0.4	0.7	0.7			0.7	0.7	29
30	1,460.5	4.2	0.8	0.8	1,458.5	2.1	1.3	1.3	1,455.6	0.4	0.8	0.8			0.5	0.5	30
31					1,458.4	2.0	1.0	1.0	1,455.5	0.3	0.8	0.8					31
TOTAL			35.3	42.7			31.3	32.4			20.9	21.8			14.6	14.8	

	JUNE	JULY	AUGUST	SEPTEMBER	
Inf. Ac. Ft.	70.0	62.0	41.5	29.0	2,146.5
Outf. Ac. Ft.	84.6	64.2	43.2	29.3	2,114.8
Maximum Mean Daily Inflow	1.7	1.3	0.9	0.7	151.8
Minimum Mean Daily Inflow	0.8	0.7	0.3	0.3	0
Storage Change	− 14.6	− 2.1	− 1.6	− 0.3	0 (1)(2)

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,497.5	feet	on	1/25/69	Storage	288.4	Acre Feet			
Min. W. S. Elev.	1,452.0	feet	on	SEPTEMBER	Storage	0	Acre Feet			
Max. Peak Inf.	351.0	C. F. S. from	10:25 A.M.	on	1/25/69	to	10:30 A.M.	on	1/25/69	
Max. Peak Outf.	250.0	C. F. S. from	8:25	on	1/25/69	to	3:00 P.M.	on	1/25/69	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP JSL	
R. J. SARASUA	Hydrographer	Storage applied	RAP JSL	
	Hydrographer	Inf. & Outf. comp.	RAP JSL	

REMARKS (1) 22.6 ACRE-FOOT LOSS DUE TO SILTATION.
(2) 8.9 ACRE-FOOT LOSS DUE TO SILTATION.

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

On Thompson Creek for the Year Ending September 30, 1968

Drainage Area 3.51 Square Miles. Capacity of Reservoir 509.6 Ac. Ft. at Spillway Elev. 1,634.2 Ft. as of February 1967

Continuous Water Stage Recorder Au

Gage Heights Read at Various Times

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1			0	0			0	0	1597.5	13.9	0.6	0	1596.0	8.7	0.3	0	1
2			0	0			0	0	1597.4	13.5	0.4	0	1596.0	8.7	0.5	0	2
3			0	0			0	0	1597.4	13.5	0.6	0	1596.0	8.7	0.5	0	3
4			0	0			0	0	1597.3	13.1	0.4	0	1595.9	8.4	0.3	0	4
5			0	0			0	0	1597.2	12.7	0.4	0	1595.9	8.4	0.5	0	5
6			0	0			0	0	1597.1	12.4	0.4	0	1595.8	8.1	0.3	0	6
7			0	0			0	0	1597.0	12.0	0.4	0	1595.8	8.1	0.4	0	7
8			0	0			0	0	1597.0	12.0	0.6	0	1595.7	7.9	0.3	0	8
9			0	0			0	0	1596.9	11.7	0.3	0	1595.6	7.6	0.3	0	9
10			0	0			0	0	1596.8	11.3	0.3	0	1595.5	7.3	0.3	0	10
11			0	0			0	0	1596.7	11.0	0.3	0	1595.5	7.3	0.4	0	11
12			0	0			0	0	1596.6	10.7	0.3	0	1595.4	7.1	0.3	0	12
13			0	0			0	0	1596.5	10.3	0.3	0	1595.4	7.1	0.4	0	13
14			0	0			0	0	1596.5	10.3	0.5	0	1595.4	7.1	0.4	0	14
15			0	0			0	0	1596.5	10.3	0.5	0	1595.4	7.1	0.4	0	15
16			0	0			0	0	1596.4	10.0	0.3	0	1595.3	6.8	0.3	0	16
17			0	0			0	0	1596.4	10.0	0.5	0	1595.2	6.5	0.3	0	17
18			0	0			0	0	1596.7	11.0	1.0	0	1595.2	6.5	0.4	0	18
19			0	0	1597.1	12.4	6.8	0	1596.8	11.3	0.7	0	1595.2	6.5	0.4	0	19
20			0	0	1597.4	13.5	1.1	0	1596.7	11.0	0.3	0	1595.2	6.5	0.4	0	20
21			0	0	1597.9	15.3	1.5	0	1596.6	10.7	0.3	0	1595.2	6.5	0.4	0	21
22			0	0	1597.8	15.0	0.4	0	1596.6	10.7	0.5	0	1595.1	6.2	0.3	0	22
23			0	0	1597.7	14.6	0.4	0	1596.5	10.3	0.3	0	1595.0	6.0	0.3	0	23
24			0	0	1597.7	14.6	0.6	0	1596.4	10.0	0.3	0	1594.9	5.8	0.3	0	24
25			0	0	1597.6	14.2	0.4	0	1596.4	10.0	0.5	0	1594.9	5.8	0.4	0	25
26			0	0	1597.5	13.9	0.4	0	1596.3	9.7	0.3	0	1594.9	5.8	0.4	0	26
27			0	0	1597.4	13.5	0.4	0	1596.3	9.7	0.5	0	1595.2	6.5	0.8	0	27
28			0	0	1597.4	13.5	0.6	0	1596.2	9.3	0.3	0	1595.2	6.5	0.4	0	28
29			0	0	1597.3	13.1	0.4	0	1596.2	9.3	0.5	0	1595.1	6.2	0.3	0	29
30			0	0	1597.5	13.9	1.0	0	1596.1	9.0	0.3	0	1595.1	6.2	0.4	0	30
31			0	0					1596.1	9.0	0.5	0	1595.0	6.0	0.3	0	31
TOTAL			0	0			14.16	0			13.8	0			11.3	0	
Inf. Ac. Ft.		0				28.1				27.5				22.5		78.1	
Outf. Ac. Ft.		0				0 + (14.2)				0 + (32.3)				0 + (25.5)		0 + (72.0)	
Maximum Mean Daily Inflow		0				6.8				0.9				0.7		6.8	
Minimum Mean Daily Inflow		0				0				0.3				0.2		0	
Storage Change		0				+ 13.8				- 4.8				- 3.0		+ 6.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,597.9	feet	on	11/21/67	Storage	15.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,591.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	18.2	C.F.S. from	8:00 A.M.	on	11/19/67	to	3:00 P.M.	on	11/19/67	R. J. SARASUA	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Outf.	0	C.F.S. from		on		to		on			Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

760138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

On Thompson Creek for the Year Ending September 30, 1968

Drainage Area 3.51 Square Miles. Capacity of Reservoir 509.6 Ac. Ft. at Spillway Elev. 1,634.2 Ft. as of February 1967

Continuous Water Stage Recorder Au

Gage Heights Read at Various Times

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1595.0	6.0	0.4	0	1594.5	4.9	0.3	0	1596.0	8.7	0.8	0	1594.7	5.3	0.3	0	1
2	1595.0	6.0	0.4	0	1594.5	4.9	0.4	0	1596.0	8.7	0.5	0	1594.6	5.1	0.3	0	2
3	1594.9	5.8	0.3	0	1594.4	4.7	0.2	0	1595.9	8.4	0.4	0	1594.5	4.9	0.3	0	3
4	1594.9	5.8	0.4	0	1594.4	4.7	0.3	0	1595.9	8.4	0.5	0	1594.4	4.7	0.2	0	4
5	1594.8	5.5	0.3	0	1594.4	4.7	0.3	0	1595.9	8.4	0.5	0	1594.3	4.4	0.2	0	5
6	1594.8	5.5	0.4	0	1594.4	4.7	0.3	0	1595.8	8.1	0.3	0	1594.2	4.2	0.2	0	6
7	1594.8	5.5	0.4	0	1594.9	5.7	0.9	0	1595.8	8.1	0.4	0	1594.3	4.4	0.4	0	7
8	1594.8	5.5	0.4	0	1597.7	14.6	5.0	0	1595.8	8.1	0.4	0	1594.2	4.2	0.2	0	8
9	1594.8	5.5	0.4	0	1597.5	13.8	0.2	0	1595.7	7.9	0.3	0	1594.1	4.0	0.2	0	9
10	1594.8	5.5	0.4	0	1597.3	13.1	0.2	0	1595.7	7.9	0.4	0	1594.0	3.8	0.2	0	10
11	1594.7	5.3	0.3	0	1597.3	13.1	0.6	0	1595.7	7.9	0.4	0	1593.9	3.6	0.2	0	11
12	1594.7	5.3	0.4	0	1597.2	12.7	0.4	0	1595.6	7.6	0.3	0	1593.8	3.4	0.2	0	12
13	1594.8	5.5	0.5	0	1597.1	12.4	0.4	0	1595.6	7.6	0.4	0	1593.7	3.3	0.2	0	13
14	1595.0	6.0	0.6	0	1596.9	11.7	0.1	0	1595.6	7.6	0.4	0	1593.6	3.1	0.2	0	14
15	1595.0	6.0	0.4	0	1596.8	11.3	0.3	0	1595.5	7.3	0.3	0	1593.5	2.9	0.2	0	15
16	1595.0	6.0	0.4	0	1596.7	11.0	0.3	0	1595.5	7.3	0.4	0	1593.4	2.7	0.2	0	16
17	1595.0	6.0	0.4	0	1596.6	10.7	0.3	0	1595.4	7.1	0.3	0	1593.3	2.6	0.1	0	17
18	1594.9	5.8	0.3	0	1596.5	10.3	0.3	0	1595.4	7.1	0.4	0	1593.2	2.4	0.1	0	18
19	1594.9	5.8	0.4	0	1596.4	10.0	0.3	0	1595.3	6.8	0.3	0	1593.1	2.2	0.1	0	19
20	1594.9	5.5	0.3	0	1596.4	10.0	0.5	0	1595.3	6.8	0.4	0	1593.0	2.1	0.1	0	20
21	1594.8	5.5	0.4	0	1596.3	9.7	0.3	0	1595.2	6.5	0.3	0	1592.9	1.9	0.1	0	21
22	1594.8	5.5	0.4	0	1596.3	9.7	0.5	0	1595.2	6.5	0.4	0	1592.8	1.8	0.1	0	22
23	1594.8	5.5	0.4	0	1596.2	9.3	0.3	0	1595.1	6.2	0.3	0	1592.7	1.7	0.1	0	23
24	1594.8	5.5	0.4	0	1596.1	9.0	0.3	0	1595.0	6.0	0.3	0	1592.6	1.5	0.1	0	24
25	1594.7	5.3	0.3	0	1596.1	9.0	0.5	0	1595.0	6.0	0.4	0	1592.5	1.4	0.1	0	25
26	1594.7	5.3	0.4	0	1596.0	8.7	0.3	0	1595.0	6.0	0.4	0	1592.4	1.3	0.1	0	26
27	1594.6	5.1	0.3	0	1596.0	8.7	0.5	0	1594.9	5.7	0.3	0	1592.3	1.2	0.1	0	27
28	1594.6	5.1	0.4	0	1596.0	8.7	0.5	0	1594.9	5.7	0.4	0	1592.2	1.0	0.1	0	28
29	1594.6	5.1	0.4	0	1595.9	8.4	0.3	0	1594.8	5.5	0.3	0	1592.1	0.9	0.1	0	29
30					1595.9	8.4	0.5	0	1594.8	5.5	0.4	0	1592.0	0.8	0.1	0	30
31					1595.8	8.1	0.3	0					1591.9	0.7	0.1	0	31
TOTAL			11.1	0			16.4	0			11.1	0			5.5	0	
Inf. Ac. Ft.		22.1				32.6				22.1				11.0		165.9	
Outf. Ac. Ft.		0 + (23.0)				0 + (29.5)				0 + (24.7)				0 + (15.8)		0 + (165.0)	
Maximum Mean Daily Inflow		0.6				5.0				0.7				0.4		6.8	
Minimum Mean Daily Inflow		0.2				0.1				0.2				0		0	
Storage Change		- 0.8				+ 3.0				- 2.6				- 4.8		+ 0.7	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,597.9	feet	on	11/21/67	Storage	15.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,591.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	18.2	C.F.S. from	8:00 A.M.	on	11/19/67	to	3:00 P.M.	on	11/19/67	R. J. SARASUA	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Outf.	0	C.F.S. from		on		to		on			Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

76D138N-6BB 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

On Thompson Creek for the Year Ending September 30, 1968

Continuous Water Stage Recorder Au

Drainage Area 3.51 Square Miles. Capacity of Reservoir 509.6 Ac. Ft. at Spillway Elev. 1,634.2 Ft. as of February 1967 Gage Heights Read at Various Times

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C. F. S. Inflow	JUNE C. F. S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C. F. S. Inflow	JULY C. F. S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C. F. S. Inflow	AUGUST C. F. S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C. F. S. Inflow	SEPTEMBER C. F. S. Outflow	Day
1	1591.8	0.6	0.1	0			0	0			0	0			0	0	1
2	1591.7	0.5	0	0			0	0			0	0			0	0	2
3	1591.6	0.5	0.1	0			0	0			0	0			0	0	3
4	1591.5	0.4	0	0			0	0			0	0			0	0	4
5	1591.4	0.3	0.1	0			0	0			0	0			0	0	5
6	1591.3	0.2	0	0			0	0			0	0			0	0	6
7	1591.2	0.1	0.1	0			0	0			0	0			0	0	7
8	1591.1	0.1	0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0.4	0			0	0			0	0			0	0	
Inf. Ac. Ft.		0.9				0				0				0		166.8	
Outf. Ac. Ft.		0 + (1.5)				0				0				0		0 + (166.5)	
Maximum Mass Daily Inflow		0				0				0				0		6.8	
Minimum Mass Daily Inflow		0				0				0				0		0	
Storage Change		− 0.7				0				0				0		0	

NO STORAGE

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,597.9	feet	on	11/21/67	Storage	15.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1,591.0	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	G. H. SHEPHERD	Dam Tender	Gage Hts. copied	RAP-JSL
Max. Peak Inf.	18.2	C. F. S. from	8:00 A.M.	on	11/19/67	to	3:00 P.M.	on	11/19/67	R. J. SARASUA	Hydrographer	Storage applied	RAP-JSL
Max. Peak Outf.	0	C. F. S. from		on		to		on			Hydrographer	Inf. & Outf. comp.	RAP-JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

76D138N-6BB 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

On Thompson Creek for the Year Ending September 30, 1969

Continuous Water Stage Recorder Au

Drainage Area 3.51 Square Miles. Capacity of Reservoir 509.6 Ac. Ft. at Spillway Elev. 1,634.1 Ft. as of February 1967 (447.5), January 1969 (469.2), February 1969

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C. F. S. Inflow	OCTOBER C. F. S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C. F. S. Inflow	NOVEMBER C. F. S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C. F. S. Inflow	DECEMBER C. F. S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C. F. S. Inflow	JANUARY C. F. S. Outflow	Day
1			0	0			0	0			0	0			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0	1,595.0	60	3.4	0	20
21			0	0			0	0			0	0	1,695.7	57.8	27.3	0	21
22			0	0			0	0			0	0	1,613.9	135.2	40.9	0	22
23			0	0			0	0			0	0	1,613.2	126.7	2.0	0	23
24			0	0			0	0			0	0	1,616.6	171.3	25.4	0.8	24
25			0	0			0	0			0	0	1,627.4	318.5*	279.3	183.0	25
26			0	0			0	0			0	0	1,610.5	80.1	79.3	198.0	26
27			0	0			0	0			0	0	1,610.4	79.2	34.1	32.9	27
28			0	0			0	0			0	0	1,612.0	93.7	16.2	7.2	28
29			0	0			0	0			0	0	1,611.5	89.1	6.7	7.2	29
30			0	0			0	0			0	0	1,610.7	81.8	5.1	7.2	30
31			0	0							0	0	1,609.0	67.4	0	5.8	31
TOTAL			0	0			0	0			0	0			519.5	442.1	
Inf. Ac. Ft.		0				0				0				1,030.6		1,030.6	
Outf. Ac. Ft.		0				0				0				876.8 + (48.6)		876.8 + (48.6)	
Maximum Mass Daily Inflow		0				0				0				279.2		279.2	
Minimum Mass Daily Inflow		0				0				0				2.0		0	
Storage Change		+ 0				+ 0				+ 0				+ 67.4		+ 67.4 *	

NO STORAGE

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,630.8	feet	on	1/25/69	Storage	428.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1,581.0	feet	on	10/1-12/19/68	Storage	0	Acre Feet	G. SHEPHERD	Dam Tender	Gage Hts. copied	RAP-JSL
Max. Peak Inf.	595.	C. F. S. from	1:00 P.M.	on	1/25/69	to	2:00 P.M.	on	1/25/69	R. SARASUA	Hydrographer	Storage applied	RAP-JSL
Max. Peak Outf.	302.	C. F. S. from	3:00 P.M.	on	1/25/69	to	3:30 P.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.

* 37.7 ACRE-FEET LOSS DUE TO SILTATION, CHANGE TO STORAGE TABLE X.

760136N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

On Thompson Creek for the Year Ending September 30, 19 69

447.5 February 69
469.2 January 69

Drainage Area 3.51 Square Miles. Capacity of Reservoir 509.6 Ac. Ft. at Spillway Elev. 1,634.1 Ft. as of February 1967

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	MARCH Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	APRIL Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	MAY Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	Day
1	1,608.9	66.6	4.0	2.9	1,612.3	78.0	17.1	26.0	1,607.0	42.2	0.7	0	1,605.2	32.4	0.6	0	1
2	1,608.9	66.6	3.8	2.3	1,613.3	86.7	14.0	8.1	1,606.9	41.7	0.7	0	1,605.3	32.9	1.2	0	2
3	1,609.0	67.4	3.8	1.9	1,614.0	93.3	13.0	8.1	1,606.7	40.5	0.4	0	1,605.5	34.0	1.4	0	3
4	1,609.1	68.2	3.8	1.9	1,614.3	96.3	11.3	8.1	1,606.9	41.7	1.6	0	1,605.7	35.0	1.4	0	4
5	1,609.0	67.4	3.2	2.1	1,614.4	97.4	9.9	7.8	1,607.2	43.3	1.8	0	1,605.9	36.1	1.4	0	5
6	1,609.7	73.2	39.5	35.0	1,614.4	97.4	9.4	7.8	1,607.4	44.6	1.7	0	1,606.1	37.2	1.5	0	6
7	1,609.4	70.7	31.3	31.0	1,614.3	96.3	8.6	7.5	1,607.6	45.7	1.7	0	1,606.1	37.2	1.0	0	7
8	1,609.2	69.1	7.9	7.2	1,614.1	94.3	8.1	7.5	1,607.6	45.7	1.1	0	1,606.4	38.9	1.8	0	8
9	1,609.1	68.2	6.9	5.8	1,613.9	92.3	8.1	7.5	1,607.5	45.1	0.8	0	1,606.5	39.4	1.3	0	9
10	1,609.0	67.4	4.9	3.8	1,613.8	91.4	8.6	7.5	1,607.4	44.5	0.8	0	1,606.5	39.4	1.0	0	10
11	1,609.0	67.4	3.6	2.1	1,613.2	85.8	5.6	6.9	1,607.2	43.4	0.4	0	1,606.5	39.4	1.0	0	11
12	1,608.9	66.6	2.6	1.5	1,612.5	79.7	5.3	6.9	1,607.0	42.2	0.4	0	1,606.5	39.4	1.0	0	12
13	1,608.7	65.1	0.8	0.1	1,611.2	69.3	2.9	6.7	1,607.0	42.2	1.0	0	1,606.5	39.4	1.0	0	13
14	1,608.6	64.3	1.2	0.1	1,609.7	58.8	2.3	6.4	1,606.9	41.7	0.7	0	1,606.5	39.4	1.0	0	14
15	1,609.0	67.4	3.2	0.1	1,609.1	54.9	4.0	4.8	1,606.8	41.1	0.7	0	1,606.6	40.0	1.3	0	15
16	1,609.0	67.4	2.5	1.0	1,608.8	53.0	0.3	0	1,606.7	40.5	0.7	0	1,606.6	40.0	1.0	0	16
17	1,608.8	65.9	0.8	0.1	1,608.5	51.1	0.3	0	1,606.6	40.0	0.7	0	1,606.6	40.0	1.0	0	17
18	1,609.0	67.4	3.4	1.1	1,608.3	49.9	0.5	0	1,606.4	38.8	0.4	0	1,606.7	40.5	1.3	0	18
19	1,609.1	68.2	5.7	3.8	1,608.2	49.3	0.2	0	1,606.3	38.3	0.7	0	1,606.7	40.5	1.0	0	19
20	1,609.2	69.1	7.2	5.3	1,608.1	48.7	0.8	0	1,606.2	37.7	0.7	0	1,606.7	40.5	1.0	0	20
21	1,610.1	76.5	6.7	1.3	1,608.2	49.3	1.4	0	1,606.1	37.2	0.7	0	1,606.7	40.5	1.0	0	21
22	1,611.3	87.2	7.6	0.5	1,608.1	48.7	0.8	0	1,606.0	36.6	0.7	0	1,606.6	40.0	+	0	22
23	1,616.3	140.9	41.0	11.8	1,608.0	48.1	0.8	0	1,605.9	36.1	0.6	0	1,606.4	38.8	0	0	23
24	1,617.9	161.5	103.6	91.0	1,608.0	48.1	1.1	0	1,605.7	35.0	0.4	0	1,605.3	32.9	0	0	24
25	1,611.6	72.4*	124.6	159.0	1,607.9	47.5	0.8	0	1,605.6	34.5	0.6	0	1,604.6	29.3	0	0	25
26	1,613.8	91.4	52.5	41.0	1,607.8	46.9	0.8	0	1,605.5	34.0	0.6	0	1,604.3	27.8	0	0	26
27	1,616.2	117.1	32.0	17.0	1,607.6	45.7	0.5	0	1,605.3	32.9	0.4	0	1,604.0	26.3	0.1	0	27
28	1,614.5	98.4	21.5	29.0	1,607.5	45.1	0.8	0	1,605.3	32.9	0.9	0	1,603.8	25.4	0.3	0	28
29					1,607.4	44.5	0.8	0	1,605.3	32.9	0.9	0	1,603.7	24.9	0.6	0	29
30					1,607.3	44.0	0.7	0					1,603.6	24.4	0.6	0	30
31					1,607.1	42.8	0.4	0					1,603.6	24.4	0.8	0	31
TOTAL			529.5	459.7			139.6	127.6			24.6	0			26.6	0	
Inf. Ac. Ft.		1,050.2				277.0				49.0				52.8		2,459.6	
Outf. Ac. Ft.		911.8 + (89.8)				253.0 + (79.5)				49.0 + (58.9)				0.0 (61.3)		2,041.6 + (338.1)	
Maximum Mean Daily Inflow		124.6				17.1				4.5				1.8		279.2	
Minimum Mean Daily Inflow		0.8				0.2				0.4				0		0	
Storage Change		+ 31.0				- 55.6				- 9.9				- 8.4		+ 24.4*	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,630.8	feet	on	1/25/69	Storage	428.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,591.0	feet	on	10/1-12/19/68	Storage	0	Acre Feet	G. SHEPHERD	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	595.	C. F. S. from	1:00 P.M.	on	1/25/69	to	2:00 P.M.	on	1/25/69	R. SARASUA	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Outf.	302.	C. F. S. from	3:00 P.M.	on	1/25/69	to	3:30 P.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES. \ INDICATES AVERAGE FOR PERIOD.
*. 17.6 ACRE-FOOT LOSS DUE TO SILTATION. CHANGE TO STORAGE TABLE XI. (45.0 TOTAL ACRE-FOOT LOSS DUE TO SILTATION.)
+ = 0.05 CFS OR LESS.

760136N-68B 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

On Thompson Creek for the Year Ending September 30, 19 69

447.5 February 69
469.2 January 69

Drainage Area 3.51 Square Miles. Capacity of Reservoir 509.6 Ac. Ft. at Spillway Elev. 1,634.1 Ft. as of February 1967

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	JULY Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	Day
1	1,603.5	24.0	0.6	0	1,599.2	6.8	0.4	0	1,598.5	4.8	0.4	0	1,598.0	3.5	0.3	0	1
2	1,603.6	24.4	1.0	0	1,599.2	6.8	0.4	0	1,598.4	4.5	0.2	0	1,598.0	3.5	0.3	0	2
3	1,603.7	24.9	1.0	0	1,599.3	7.1	0.6	0	1,598.4	4.5	0.3	0	1,598.0	3.5	0.3	0	3
4	1,603.8	25.4	1.0	0	1,599.3	7.1	0.4	0	1,598.4	4.5	0.3	0	1,598.0	3.5	0.3	0	4
5	1,604.0	26.3	1.3	0	1,599.4	7.5	0.6	0	1,598.4	4.5	0.3	0	1,597.9	3.2	0.2	0	5
6	1,604.0	26.3	0.8	0	1,599.4	7.5	0.4	0	1,598.4	4.5	0.3	0	1,597.9	3.2	0.3	0	6
7	1,604.0	26.3	0.8	0	1,599.5	7.8	0.6	0	1,598.3	4.3	0.2	0	1,597.9	3.2	0.3	0	7
8	1,604.1	26.8	1.1	0	1,599.4	7.5	0.2	0	1,598.3	4.3	0.3	0	1,597.9	3.2	0.3	0	8
9	1,604.0	26.3	0.5	0	1,599.3	7.1	0.2	0	1,598.3	4.3	0.3	0	1,597.9	3.2	0.3	0	9
10	1,603.9	25.9	0.6	0	1,599.3	7.1	0.4	0	1,598.3	4.3	0.3	0	1,597.8	3.0	0.2	0	10
11	1,603.8	25.4	0.6	0	1,599.3	7.1	0.4	0	1,598.2	4.0	0.2	0	1,597.8	3.0	0.3	0	11
12	1,603.9	25.9	1.0	0	1,599.2	6.8	0.2	0	1,598.2	4.0	0.3	0	1,597.8	3.0	0.3	0	12
13	1,604.0	26.3	1.0	0	1,599.2	6.8	0.4	0	1,598.2	4.0	0.3	0	1,597.8	3.0	0.3	0	13
14	1,604.0	26.3	0.8	0	1,599.2	6.8	0.4	0	1,598.2	4.0	0.3	0	1,597.8	3.0	0.3	0	14
15	1,604.1	26.8	1.1	0	1,599.1	6.5	0.2	0	1,598.1	3.7	0.2	0	1,597.7	2.8	0.2	0	15
16	1,604.0	26.3	0.2	1.0	1,599.1	6.5	0.4	0	1,598.1	3.7	0.3	0	1,597.7	2.8	0.3	0	16
17	1,603.8	25.4	0.2	0	1,599.1	6.5	0.4	0	1,598.1	3.7	0.3	0	1,597.7	2.8	0.3	0	17
18	1,600.0	9.4	0.2	9.0	1,599.1	6.5	0.4	0	1,598.1	3.7	0.3	0	1,597.7	2.8	0.3	0	18
19	1,599.8	8.8	0.2	0	1,599.0	6.2	0.2	0	1,598.1	3.7	0.3	0	1,597.7	2.8	0.3	0	19
20	1,599.7	8.4	0.3	0	1,599.0	6.2	0.4	0	1,598.1	3.7	0.3	0	1,597.6	2.6	0.2	0	20
21	1,599.6	8.1	0.2	0	1,599.0	6.2	0.4	0	1,598.1	3.7	0.3	0	1,597.6	2.6	0.3	0	21
22	1,599.5	7.8	0.2	0	1,599.0	6.2	0.4	0	1,598.0	3.5	0.2	0	1,597.6	2.6	0.3	0	22
23	1,599.5	7.8	0.4	0	1,599.0	6.2	0.4	0	1,598.0	3.5	0.3	0	1,597.6	2.6	0.3	0	23
24	1,599.4	7.5	0.2	0	1,598.9	5.9	0.3	0	1,598.0	3.5	0.3	0	1,597.6	2.6	0.3	0	24
25	1,599.4	7.5	0.4	0	1,598.8	5.6	0.3	0	1,598.0	3.5	0.3	0	1,597.5	2.4	0.2	0	25
26	1,599.4	7.5	0.4	0	1,598.7	5.3	0.3	0	1,598.0	3.5	0.3	0	1,597.5	2.4	0.3	0	26
27	1,599.4	7.5	0.4	0	1,598.6	5.1	0.3	0	1,598.0	3.5	0.3	0	1,597.5	2.4	0.3	0	27
28	1,599.3	7.1	0.2	0	1,598.5	4.8	0.3	0	1,598.0	3.5	0.3	0	1,597.5	2.4	0.3	0	28
29	1,599.3	7.1	0.4	0	1,598.5	4.8	0.4	0	1,598.0	3.5	0.3	0	1,597.5	2.4	0.3	0	29
30	1,599.2	6.8	0.2	0	1,598.5	4.8	0.4	0	1,598.0	3.5	0.3	0	1,597.5	2.4	0.3	0	30
31					1,598.5	4.8	0.4	0	1,598.0	3.5	0.3	0					31
TOTAL			15.1	10.0			11.3	0			8.7	0			8.4	0	
Inf. Ac. Ft.		40.0				22.5				17.2				16.7		2,556.0	
Outf. Ac. Ft.		19.8 + (37.8)				0 + (24.5)				0 + (18.6)				0 + (17.8)		2,061.4 + (436.8)	
Maximum Mean Daily Inflow		7.1				0.5				0.4				0.3		279.2	
Minimum Mean Daily Inflow		- 5.3				0.2				0.1				0.1		0	
Storage Change		- 17.6				- 2.0				- 1.3				- 1.0		+ 2.4*	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1,630.8	feet	on	1/25/69	Storage	428.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1,591.0	feet	on	10/1-12/19/68	Storage	0	Acre Feet	G. SHEPHERD	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	595.	C. F. S. from	1:00 P.M.	on	1/25/69	to	2:00 P.M.	on	1/25/69	R. SARASUA	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Outf.	302.	C. F. S. from	3:00 P.M.	on	1/25/69	to	3:30 P.M.	on	1/25/69		Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.
* 45.0 ACRE-FOOT LOSS DUE TO SILTATION.

74D138M-68B Gb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL PUMPING PLANT Dam

In On Long Beach for the Year Ending September 30, 1968

Continuous Water Stage Recorder Stevens A-35

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at Spillway Elev. 17.± Ft. as of July 19 47 Gage Heights Read at Various Times

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	4.4	0.4	0.1	0.1	4.3	0.3	0.2	0.2	4.4	0.4	0.2	0.5		0	0	0	1
2	3.6	0.1	+	0.2	4.4	0.4	+	0	4.5	0.4	+	+		0	0	0	2
3		0	0	+	4.5	0.4	+	0	4.6	0.4	+	+		0	0	0	3
4		0	0	0	4.6	0.4	+	0	4.7	0.5	0.1	0		0	0	0	4
5		0	0	0	4.7	0.5	0.1	0		0	0	0.3		0	0	0	5
6		0	0	0	3.9	0.2	0.1	0.3	4.3	0.3	0.2	0		0	0	0	6
7	3.8	0.2	0.1	0	4.0	0.2	+	+	4.9	0.5	0.9	0.8		0	0	0	7
8	4.0	0.2	+	0	4.0	0.2	0.1	0.1		0	0.1	0.4		0	0	0	8
9		0	0	0.1	3.9	0.2	0.2	0.2		0	0	0		0	0	0	9
10	3.8	0.2	0.1	0	3.9	0.2	0.1	0.1		0	0	0		0	0	0	10
11	4.0	0.2	+	0	4.1	0.2	+	0		0	0	0	4.0	0.2	0.9	0.8	11
12	4.2	0.3	0.1	0	4.3	0.3	0.2	0.1		0	0	0	3.6	0.1	0.2	0.2	12
13	4.0	0.2	0.1	0.2	4.0	0.2	0.1	0.2		0	0	0		0	0	0.1	13
14	4.2	0.3	0.1	0		0	0	0.1		0	0	0		0	0	0	14
15	4.1	0.2	+	0.1		0	0	0		0	0	0		0	0	0	15
16	4.3	0.3	0.1	0	3.7	0.2	0.1	0		0	0	0		0	0	0	16
17	4.3	0.3	0.1	0.1	3.9	0.2	+	+		0	0	0		0	0	0	17
18	3.9	0.2	0.1	0.2	4.1	0.2		0	5.3	0.8	6.4	6.0		0	0	0	18
19		0	0	0.1	6.5	1.6	10.3	9.6	4.9	0.5	6.2	6.3		0	0	0	19
20		0	0	0	9.4	28.9	19.9	6.1		0	0	0.3		0	0	0	20
21	3.8	0.2	0.1	0	14.0	106.6	88.6	49.5		0	0	0		0	0	0	21
22	4.1	0.2	+	0	7.9	7.0	0.4	50.6		0	0	0		0	0	0	22
23	3.9	0.2	0.1	0.1	5.6	0.9	1.2	4.2		0	0	0		0	0	0	23
24	4.2	0.3	0.1	0	4.2	0.3	0	0.3		0	0	0		0	0	0	24
25	4.0	0.2	0.1	0.2	4.1	0.2	0.1	0.2		0	0	0		0	0	0	25
26	4.2	0.3	0.1	0	4.4	0.4	0.1	0		0	0	0		0	0	0	26
27	3.8	0.2	0.1	0.2	4.7	0.5	0.1	0		0	0	0	3.7	0.2	1.5	1.4	27
28	3.9	0.2	+	0	5.4	0.8	0.1	0		0	0	0		0	0	0.1	28
29	4.0	0.2	+	0	4.4	0.4	0.2	0.4		0	0	0	3.6	0.1	0.1	0	29
30	4.1	0.2	+	0	5.6	0.9	5.5	5.2		0	0	0		0	0	0.1	30
31	4.3	0.3	0.1	0						0	0	0	4.3	0.3	1.0	0.8	31
TOTAL			1.6	1.6			127.7	127.4			14.1	14.6			3.7	3.5	
Inf. Ac. Ft.			3.2				253.2	127.4			28.0				7.3	291.7	
Outf. Ac. Ft.			3.2				252.7				29.0				6.9	291.8	
Maximum Mean Daily Inflow			0.1				88.6				6.4				1.5	88.6	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		− 0.1				+ 0.6				− 0.9				+ 0.3			− 0.1

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	16.46	feet	on	11/21/67	Storage	150.6	Acre Feet		RECORDS COLLECTED BY			COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1.8	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		D. RAGSDALE	Dam Tender		Gage Hts. copied	GHS	
Max. Peak Inf.	586.	C. F. S. from	12:00 MID.	on	11/21/67	to	1:00 A.M.	on	11/21/67	M. SJOSTEDT	Hydrographer		Storage applied	GHS	
Max. Peak Outf.	55.1	C. F. S. from	4:54 A.M.	on	11/21/67	to	5:14 A.M.	on	11/21/67		Hydrographer		Inf. & Outf. comp.	GHS MLS

REMARKS + = 0.05 CFS OR LESS

74D138M-68B Gb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL PUMPING PLANT Dam

In On Long Beach for the Year Ending September 30, 1968

Continuous Water Stage Recorder Stevens A-35

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at Spillway Elev. 17.± Ft. as of July 19 47 Gage Heights Read at Various Times

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	4.0	0.2	0.1	0.2	3.8	0.2	0.3	0.2	5.2	0.7	22.3	22.1			0	0	1
2			0	0.1	4.0	0.2	+	0	4.2	0.3	0	0.3			0	0	2
3			0	0	4.2	0.3	+	0	3.8	0.2	0.1	0.1			0	0	3
4			0	0	4.1	0.2	0.1	0.1	4.0	0.2	+	0			0	0	4
5			0	0	4.0	0.2	0.1	0.1	4.2	0.3	+	0			0	0	5
6			0	0	4.2	0.3	+	0	4.4	0.3	+	0			0	0	6
7			0	0	10.4	45.2	26.0	3.4	4.4	0.3	+	0			0	0	7
8			0	0	5.2	0.7	13.4	35.8	4.0	0.2	0.2	0.2			0	0	8
9			0	0	5.2	0.7	0.1	0.1	4.2	0.3	+	0			0	0	9
10			0	0	5.2	0.7	0	0	4.0	0.2	0.2	0.2			0	0	10
11			0	0	4.1	0.2	0.2	0.4		0	0	0.1			0	0	11
12	4.6	0.4	0.2	+	4.4	0.4	0.1	0		0	0	0			0	0	12
13	6.9	2.0	1.4	0.6	5.1	0.6	1.5	1.4		0	0	0			0	0	13
14	4.0	0.2	0	0.9	3.7	0.2	0.2	0.4		0	0	0			0	0	14
15	4.2	0.3	0.1	0	4.2	0.3	+	0	3.6	0.1	0.1	0			0	0	15
16	4.4	0.4	+	0	5.7	1.0	0.6	0.2	4.2	0.3	0.1	+			0	0	16
17	5.0	0.6	0.1	0	3.8	0.2	0.2	0.6		0	0	0.2			0	0	17
18	5.0	0.6	+	0	4.1	0.2	+	0		0	0	0			0	0	18
19	3.9	0.2	0.1	0.3	4.4	0.4	0.1	0		0	0	0			0	0	19
20	4.2	0.3	0.1	0	3.8	0.2	0.2	0.3		0	0	0			0	0	20
21	4.5	0.4	+	0	4.0	0.2	+	0		0	0	0			0	0	21
22	4.2	0.3	0.1	0.1	3.7	0.2	0.1	0.1		0	0	0			0	0	22
23	4.2	0.3	0.1	0.1	4.1	0.2	+	0		0	0	0			0	0	23
24	4.3	0.3	0.1	0.1	4.2	0.3	+	0		0	0	0			0	0	24
25	4.3	0.3	+	+	4.0	0.2	0.2	0.2	3.9	0.2	0.1	0			0	0	25
26	4.0	0.2	0.1	0.2	4.2	0.3	+	0			0	0.1			0	0	26
27	4.2	0.3	0.1	0	3.8	0.2	0.2	0.2			0	0			0	0	27
28	4.3	0.3	+	0	4.1	0.2	+	0			0	0			0	0	28
29	3.6	0.1	0.2	0.3	4.5	0.4	0.1	0			0	0			0	0	29
30					4.6	0.4	+	0			0	0			0	0	30
31					4.6	0.4	+	0			+	0			0	0	31
TOTAL			2.8	2.9			43.7	43.5			23.1	23.3			0	0	
Inf. Ac. Ft.			5.6				86.5				45.8				0	429.7	
Outf. Ac. Ft.			5.8				86.3				46.2				0	430.1	
Maximum Mean Daily Inflow			1.4				26.0				22.3				0	88.6	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		− 0.2				+ 0.3				− 0.4			0			− 0.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	16.46	feet	on	11/21/67	Storage	150.6	Acre Feet		RECORDS COLLECTED BY			COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1.8	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		D. RAGSDALE	Dam Tender		Gage Hts. copied	GHS	
Max. Peak Inf.	586.	C. F. S. from	12:00 MID.	on	11/21/67	to	1:00 A.M.	on	11/21/67	M. SJOSTEDT	Hydrographer		Storage applied	GHS	
Max. Peak Outf.	55.1	C. F. S. from	4:54 A.M.	on	11/21/67	to	5:14 A.M.	on	11/21/67		Hydrographer		Inf. & Outf. comp.	GHS MLS

REMARKS + = 0.05 CFS OR LESS

760 138N-688 Oh 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL PUMPING PLANT

In Long Beach

On for the Year Ending September 30, 1968

Continuous Water Stage Recorder Stevens A-35

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at Spillway Elev. 17.± Ft. as of July 1947

Gage Heights Read at Various Times

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	3.6	0.1	0.1	0			0	0			0	0			0	0	1
2	3.6	0.1	0	0			0	0			0	0			0	0	2
3	3.6	0.1	0.1	0.1			0	0			0	0			0	0	3
4		0	0	0.1			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0.2	0.2			0	0			0	0			0	0	
Inf. Ac. Ft.			0.4				0				0				0	430.1	
Outf. Ac. Ft.			0.4				0				0				0	430.5	
Maximum Mean Daily Inflow			0.1				0				0				0	88.6	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				0			– 0.4

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	16.46	feet	on	11/21/67	Storage	150.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1.8	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	D. RAGSDALE	Dam Tender	Gage Hts. copied	GHS	
Max. Peak Inf.	586	C. F. S. from	12:00 MID.	on	11/21/67	to	1:00 A.M.	on	11/21/67	M. SJOSTEDT	Hydrographer	Storage applied	GHS	
Max. Peak Outf.	55.1	C. F. S. from	4:54 A.M.	on	11/21/67	to	5:14 A.M.	on	11/21/67		Hydrographer	Inf. & Outf. comp.	GHS MLS	

REMARKS

760 138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL PUMPING PLANT

In Long Beach

for the Year Ending September 30, 1969

Continuous Water Stage Recorder Stevens A-35

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at Spillway Elev. 17.± Ft. as of JULY 1947

Gage Heights Read at various times

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1			0	0		0	0	0			0	0			0	0	1
2			0	0		0	0	0			0	0			0	0	2
3			0	0	6.4	1.5	0.7	0			0	0			0	0	3
4			0	0			0.3	1.0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			1.5	1.5			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0	8.7	17.6	8.9	0	13
14			0.6	0.6			0	0			0	0	9.5	30.5	13.2	6.7	14
15		NO STORAGE	0	0		NO STORAGE	1.7	1.7		NO STORAGE	0	0	8.3	11.7	0	9.5	15
16			0	0			0	0			0.3	0.3		0	0	5.9	16
17			0	0			0	0			0	0		0	0	0	17
18			0	0			0	0			0	0	7.2	2.8	9.9	8.5	18
19			0	0			0	0			0	0	8.9	20.8	27.2	18.1	19
20			0	0			0	0			0.1	0.1	11.3	60.2	65.6	45.7	20
21			0	0			0	0			0	0	7.5	3.8	17.0	45.5	21
22			0	0			0	0			0	0		0	3.2	5.1	22
23			0	0			0	0			0	0	7.3	3.1	1.6	0	23
24			0	0			0	0			0	0	7.9	7.0	29.3	37.4	24
25			0	0			0	0	4.9	0.5	13.3	13.0	9.0	22.4	51.3	43.5	25
26			0	0			0	0			3.1	3.4	5.0	0.6	7.5	18.3	26
27			0	0			0	0			0	0		0	2.5	2.8	27
28			0	0			0	0			0	0	6.3	1.4	3.0	2.3	28
29			0	0			0	0			0	0		0	0.1	0.8	29
30			0.6	0.6			0	0			0	0		0	0	0	30
31			0	0							0	0		0	0	0	31
TOTAL			1.2	1.2			2.7	2.7			18.3	18.3			250.1	250.1	
Inf. Ac. Ft.		2.4				5.4				36.3				496.1		540.2	
Outf. Ac. Ft.		2.4				5.4				36.3				496.1		540.2	
Maximum Mean Daily Inflow		0.6				1.7				13.3				65.6		65.6	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change	0				0				0				0				0

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	13.8	feet	on	1/20	Storage	103.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	3.5	feet	on	VARIOUS DAYS	Storage	0.0	Acre Feet	R. RAGSDALE	Dam Tender	Gage Hts. copied	RAP-JSL	
Max. Peak Inf.	470	C. F. S. from	4:40 A.M.	on	1/20	to	5:40 A.M.	on	1/20	M. SJOSTEDT	Hydrographer	Storage applied	RAP-JSL	
Max. Peak Outf.	50.4	C. F. S. from	12:15 P.M.	on	1/20	to	3:45 P.M.	on	1/20		Hydrographer	Inf. & Outf. comp.	RAP-JSL	

REMARKS

76D136N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL PUMPING PLANT

In Long Beach for the Year Ending September 30, 1969

Continuous Water Stage Recorder Stevens A-35

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at Spillway Elev. 17.+ Ft. as of July 1947

Gage Heights Read at various times

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1			0	0			0	1.2		0	0	0			0	0	1
2			0	0			0	0	7.3	3.1	1.6	0			0	0	2
3			0	0			0	0			0	1.6			0	0	3
4			0	0			0	0			0	0			0	0	4
5		NO STORAGE	1.2	1.2			0	0			0.5	0.5			0	0	5
6			10.8	10.8			0	0			0.2	0.2			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0.6	0.6			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			1.4	1.4			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14		0	0	0			0	0			0	0			0	0	14
15	5.0	0.6	2.6	2.3			0	0			0	0			0	0	15
16		0	0	0.3			0	0			0	0			0	0	16
17		0	0	0			0	0			0	0			0	0	17
18		0	5.3	5.3			0	0			0	0			0	0	18
19		0	2.8	2.8			0	0			0	0			0	0	19
20		0	0	0			0	0			0	0			0	0	20
21	8.5	14.4	7.9	0.6	6.9	2.0	2.1	1.1			0	0			0	0	21
22		0	4.0	11.3			0	1.0			0	0			0	0	22
23	9.1	24.0	33.6	21.5			0	0			0	0			0	0	23
24	6.4	1.5	8.2	19.5			0	0			0	0			0	0	24
25	6.6	1.7	26.2	26.1			0	0			0	0			0	0	25
26		0	0	0.9			0	0			0	0			0	0	26
27		0	0	0			0	0			0	0			0	0	27
28	7.1	2.4	2.4	1.2			0	0			0	0			0	0	28
29							0	0			0	0			0	0	29
30							0	0			0	0			0	0	30
31							0	0							0	0	31
TOTAL			105.0	103.8			4.1	5.3			2.3	2.3			0	0	
Inf. Ac. Ft.		208.3				8.1				4.6				0		761.2	
Outf. Ac. Ft.		205.9				10.5				4.6				0		761.2	
MAXIMUM Mean Daily Inflow		33.6				2.1				1.6				0		65.6	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change	+ 2.4				0				0				0			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	13.8	feet	on	1/20	Storage	103.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	3.5	feet	on	VARIOUS DAYS	Storage	0.0	Acre Feet	R. RAGSDALE	Dam Tender	Gage Hts. copied RAP-JSL
Max. Peak Inf.	470.	C.F.S. from	4:40 A.M.	on	1/20	to	5:40 A.M.	on	1/20	M. SJOSTEDT	Hydrographer	Storage applied RAP-JSL
Max. Peak Outf.	50.4	C.F.S. from	12:15 P.M.	on	1/20	to	3:45 P.M.	on	1/20		Hydrographer	Inf. & Outf. comp. RAP-JSL

REMARKS

76D138N-688 3-64

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL PUMPING PLANT

In Long Beach for the Year Ending September 30, 1969

Continuous Water Stage Recorder Stevens A-35

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at Spillway Elev. 17.+ Ft. as of July 1947

Gage Heights Read at various times

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1			0	0			0	0			0	0			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0.4	0.4			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26	4.1	0.3	0.4	0.2			0	0			0	0			0	0	26
27			0	0.2			0	0			0	0			0	0	27
28			0	0			0	0			+	+			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0.4	0.4			0.4	0.4			+	+			0	0	
Inf. Ac. Ft.		0.8				0.8				+				0		762.8	
Outf. Ac. Ft.		0.8				0.8				+				0		762.8	
MAXIMUM Mean Daily Inflow		0.4				0.4				+				0		65.6	
Minimum Mean Daily Inflow		0				0				0				0		0	
Storage Change	0				0				0				0			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	13.8	feet	on	1/20	Storage	103.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	3.5	feet	on	VARIOUS DAYS	Storage	0.0	Acre Feet	R. RAGSDALE	Dam Tender	Gage Hts. copied RAP-JSL
Max. Peak Inf.	470.	C.F.S. from	4:40 P.M.	on	1/20	to	5:40 A.M.	on	1/20	M. SJOSTEDT	Hydrographer	Storage applied RAP-JSL
Max. Peak Outf.	50.4	C.F.S. from	12:15 P.M.	on	1/20	to	3:45 P.M.	on	1/20		Hydrographer	Inf. & Outf. comp. RAP-JSL

REMARKS + = 0.05 CFS OR LESS

TABLE XVIII

YEARLY RESERVOIR OPERATION SUMMARY

1967-69

DAM	YEAR	INFLOW			OUTFLOW	PEAK INFLOW				PEAK OUTFLOW				STORAGE		
		ANNUAL A.F.	MAX. DAY CFS	MIN. DAY CFS	ANNUAL A.F.	MO.	DAY	PERIOD*	CFS	MO.	DAY	PERIOD*	CFS	MAX. A.F.	MIN. A.F.	SEPT. 30 A.F.
PACOIMA	1967-68	3,843.	76.	0	3,833.	11	21	6:00 P.M. TO 8:00 A.M.	107.	11	22	12:00 Noon TO 4:00 P.M.	105.	1,300.	213.	213.
	1968-69	43,398.	2,861.	0	42,998.	2	25	4:00 A.M. TO 5:00 A.M.	5,115.	2	25	1:00 P.M. TO 2:00 P.M.	2,715.	5,247.	0	0
BIG TUJUNGA	1967-68	10,584.	352.	1	11,446.	11	21	4:00 P.M. TO 5:00 P.M.	725.	11	21	12:00 Noon TO 12:00 Noon	235.	1,734.	0	0
	1968-69	107,609.	7,803.	0	106,462.	1	25	10:00 A.M. TO 11:00 A.M.	19,506.	2	25	5:00 A.M. TO 6:00 A.M.	17,200.	4,779.	0	0
DEVIL'S GATE	1967-68	6,858.	698.	0	2,233.	11	19	3:00 A.M. TO 4:00 A.M.	1,312.	11	21	1:30 P.M. TO 4:00 A.M.	600.	1,542.	0	0
	1968-69	44,817.	4,222.	0	39,164.	1	25	8:00 A.M. TO 9:00 A.M.	9,438.	1	25	11:00 A.M. TO 12:00 Noon	7,105.	3,466.	0	0
EATON WASH	1967-68	1,304.	133.	0	404.	11	19	10:00 A.M. TO 12:00 Noon	331.	11	28	2:00 A.M. TO 12:00 Noon	52.	430.	0	0
	1968-69	20,866.	1,106.	0	18,644.	1	25.	8:00 A.M. TO 8:30 A.M.	2,919.	1	25	8:00 A.M. TO 9:00 A.M.	2,800.	852.	0	0
SANTA ANITA	1967-68	3,376.	56.	0.1	3,579.	11	19.	12:00 Noon TO 2:00 P.M.	165.	11	21	12:30 P.M. TO 10:00 P.M.	50.	357.	0	0
	1968-69	38,734.	2,292.	0.3	38,369.	1	25.	8:00 A.M. TO 9:00 A.M.	5,818.	1	25	8:00 A.M. TO 10:00 A.M.	5,500.	779.	0	0
SAWPIT	1967-68	1,510.	12.	0.8	1,510.	11	19	8:00 A.M. TO 10:00 A.M.	32.	11	20	10:00 A.M. TO 12:00 Mid.	25.	30.	18.	28.
	1968-69	7,555.	5.	2.	9,498.	1	25	5:00 A.M. TO 7:00 A.M.	815.	1	25	9:45 A.M. TO 9:50 A.M.	553.	341.	0	0
COGSWELL	1967-68	9,569.	338.	0.6	12,713.	11	19	12:00 Noon TO 2:00 P.M.	893.	11	-	VARIOUS TIMES	500.	7,018.	1,852.	3,487.
	1968-69	95,676.	6,375.	0.1	90,488.	2	25	4:00 A.M. TO 6:00 A.M.	15,200.	2	25	6:00 A.M. TO 7:00 A.M.	10,600.	10,645.	2,675.	7,338.
SAN GABRIEL	1967-68	66,761.	697.	28.	68,771.	11	19	10:00 A.M. TO 12:00 Noon	1,617.	5	2	8:00 A.M. TO 12:00 Noon	905.	12,478.	833.	851.
	1968-69	527,883.	28,015.	77.	524,874.	2	25	6:00 A.M. TO 7:00 A.M.	45,190.	2	25	12:00 Noon TO 2:00 P.M.	27,750.	44,240.	0	0
BIG DALTON	1967-68	770.	15.	0.1	681.3	11	19	10:00 A.M. TO 12:00 Noon	56.	11	20	12:00 Noon TO 8:00 A.M.	17.	343.	132.	179.
	1968-69	13,251.	1,205.	0	12,995.	1	25	11:00 A.M. TO 12:00 Noon	1,430.	1	25	11:00 A.M. TO 3:00 P.M.	1,400.	1,709.	1,673.	181.
SAN DIMAS	1967-68	3,148.	80.	0.1	3,058.	11	19	2:00 P.M. TO 4:00 P.M.	414.	11	3	12:00 Noon TO 1:00 P.M.	47.	804.	147.	804.
	1968-69	28,645.	1,713.	0.7	28,808.	1	25	10:00 A.M. TO 11:00 A.M.	3,752.	1	25	10:00 A.M. TO 11:00 A.M.	3,340.	1,441.	255.	459.
PUDDINGSTONE DIVERSION	1967-68	2,744.	62.	0	2,180.	11	30	12:00 Noon TO 2:00 P.M.	125.	11	6	7:30 A.M. TO 4:30 P.M.	16.	188.	0	0
	1968-69	35,100.	2,610.	0	34,200.	1	25	10:00 A.M. TO 11: A.M.	4,715.	1	25	10:00 A.M. TO 12:00 Noon	4,650.	231.	0	0
PUDDINGSTONE	1967-68	15,811.	174.	0	14,275.	3	8	4:00 A.M. TO 6:00 A.M.	760.	7	23	1:30 P.M. TO 8:00 A.M.	108.	7,264.	6,327.	6,525.
	1968-69	36,802.	2,834.	0	35,754.	1	24	9:30 A.M. TO 10:00 A.M.	5,860.	1	26	2:40 P.M. TO 6:00 P.M.	977.	12,678.	5,360.	6,297.
LIVE OAK	1967-68	131.	6.	0	130.	3	8	4:00 A.M. TO 6:00 A.M.	39.	4	1	10:00 A.M. TO 7:30 A.M.	5.	69.	0	0
	1968-69	2,146.	152.	0	2,115.	1	25	10:25 A.M. TO 10:30 A.M.	351.	1	25	8:25 A.M. TO 3:00 P.M.	250.	288.	0	0
THOMPSON CREEK	1967-68	167.	7.	0	0	11	19	8:00 A.M. TO 3:00 P.M.	18.	-	-		0	15.	0	0
	1968-69	2,556.	279.	0	2,061.	1	25	1:00 P.M. TO 2:00 P.M.	595.	1	25	3:00 P.M. TO 3:30 P.M.	302.	429.	0	2.4
HAMILTON BOWL	1967-68	365.	54.	0	416.	11	21	12:00 Mid. TO 1:00 A.M.	586.	11	21	4:54 A.M. TO 5:14 A.M.	55.	151.	0.1	0.1
	1968-69	763.	66.	0	763.	1	20	4:40 P.M. TO 5:40 A.M.	470.	1	20	12:15 P.M. TO 3:45 P.M.	50.	103.	0	0

*BEGINNING DAY

EROSION CONTROL

EROSION CONTROL

FOREWORD

Eroded material from the mountain watersheds, in the form of mud and debris flows, is a major cause of flood damage in Los Angeles County and must be controlled before flood control channels and spreading grounds can be operated. Control is provided by debris basins and upstream stabilization structures. Accumulation of eroded material in the reservoirs and debris basins seriously reduces their flood protection capabilities. The 1969 storms deposited over 17,500,000 cubic yards of debris in debris basins and reservoirs, necessitating a large emergency cleanout program. By the end of the season, 9,800,000 cubic yards had been removed and work was still in progress.

DEBRIS BASINS

The District operated and maintained 65 debris basins during the 1967-68 water year. The number of facilities was increased to 69 during the 1968-69 water year. The Los Angeles District Corps of Engineers, Department of the Army, operated and maintained Haines Debris Basin.

PURPOSE

Debris basins retain the larger debris from their drainage areas and let the clear water and fines pass into the flood control channels. This function was especially demonstrated during the 1968-69 storm season when over 2,500,000 cubic yards of material were entrapped by District basins. This amounted to 31 percent of the original capacity and 37 percent of the capacity available at the beginning of the season.

In several instances, basins were filled completely and spillway flow occurred. Forty-eight debris basins were filled to greater than 25 percent of design capacity and were subsequently cleaned out. Approximately 2,150,000 cubic yards of debris were removed to disposal areas and construction projects.

NEW FACILITIES

During the 1967-68 water year, Blanchard, Blue Gum, Hook, and Winery Debris Basins were completed. Sturtevant Debris Basin, built as part of a private drainage system, was also accepted for operation and maintenance. Hog, Stetson, and Sombrero Debris Basins were completed during the 1968-69 year. Allen Reservoir Debris Basin, constructed by the United States Forest Service under a cooperative agreement with the District as part of a stabilization project, also functioned during the 1968-69 season. Inlet structures on Bell and Gooseberry Creeks also functioned and were maintained as debris basins during 1968-69.

STABILIZATION STRUCTURES

The District maintained 137 stabilization structures in 18 watersheds during the 1967-68 water year. The system was increased during the 1968-69 season to 153 structures in 23 watersheds.

PURPOSE

Stabilization structures have been constructed since 1959 under a cooperative agreement with the United States Forest Service to reduce debris production throughout the Los Angeles River watershed and reduce maintenance costs for debris removal from debris basins and reservoirs.

The effect of watershed stabilization was noted during the 1968-69 storm year. After the January storm, a 40-percent reduction in debris rates was observed in certain stabilized watersheds as compared to unstabilized watersheds. The reduction was only 16 percent during the February storm, indicating that part of the reduction is attributable to the initial filling of storage space behind the crib dam.

NEW FACILITIES

During the 1967-68 water year, construction of stabilization structures in Arroyo Seco (Fern), Schoolhouse, and Shields Canyons was completed. Construction of similar structures in Goss, Hay, Allen, Winery, and El Prieto Canyons was completed during 1968-69.

RESERVOIRS

Because of reservoir location and relatively large tributary watershed size, large quantities of material can be entrapped by these facilities, as demonstrated during the 1968-69 storm season when approximately 14,800,000 cubic yards of material were deposited. This required scheduling of cleanouts at all District reservoirs except Thompson Creek and Puddingstone.

Debris production data for District debris basins and reservoirs are presented in the following tabulations.

Fires have an important effect on debris production. A table and map of burned areas listing fires which burned over 50 acres are presented.

TABLE XIX
DEBRIS PRODUCTION HISTORY
AT DEBRIS BASINS

	DEBRIS BASINS	UNCONTROLLED DRAINAGE AREA ABOVE BASIN SQ. MI.	FIRST DEBRIS SEASON	MAX. DEBRIS CAPACITY CU. YDS.	1967-68 DEBRIS PROD. CU. YDS.	1968-69 DEBRIS PROD. CU. YDS.	TOTAL DEBRIS DEPOSITED SINCE FIRST SEASON CU. YDS.	MAX. SEASONAL DEBRIS PRODUCTION CU. YDS. PER SQ. MI.	SEASON	1967-68 DEBRIS REMOVAL CU. YDS.	1968-69 DEBRIS REMOVAL CU. YDS.
1.	ALLEN RESERVOIR	0.09	1968-69	4,300	(1)	1,100	1,100	11,700	1968-69	(1)	0 (2)
2.	ALTADENA GOLF COURSE	0.20	1945-46	12,500	0	1,500	29,800	18,900	1958-59	0	0
3.	AUBURN	0.19	1954-55	45,100	0	8,600	47,600	105,900	1961-62	10,600	0
4.	BAILEY	0.60	1945-46	158,100	0	31,900	103,900	53,200	1968-69	5,000	0
5.	BELL	7.00	1967-68	28,000	2,900	24,200	27,100	3,500	1968-69	0	23,900
6.	BIG DALTON	2.62	1959-60	616,900	10,000	296,700	609,000	113,200	1968-69	0	419,300
7.	BLANCHARD*	0.50*	1968-69	71,300	(1)	15,900	15,900	31,800	1968-69	0	0
8.	BLUE GUM	0.19	1968-69	44,100	(1)	3,300	3,300	17,400	1968-69	0	0
9.	BRADBURY	0.68	1954-55	77,500	1,400	70,200	159,400	103,300	1968-69	0	77,400
10.	BRAND	1.03	1935-36	208,200	2,000	39,400	147,100	45,000	1964-65	0	0 (2)
11.	CARTER	0.12	1954-55	22,000	0	2,700	20,000	93,000	1961-62	0	5,500
12.	CHILDS	0.31	1963-64	54,000	0	5,500	21,900	26,600	1964-65	0	0
13.	COOKS*	0.58*	1951-52	47,500	1,400	18,700	51,300	35,600	1951-52	0	26,200
14.	DEER	0.59	1954-55	66,400	4,000	44,200	111,700	74,900	1968-69	0	54,400
15.	DUNSMUIR*	0.84*	1935-36	124,500	600	17,300	191,800	70,000 E.	1937-38	0	0 (2)
16.	EAGLE*	0.61*	1936-37	72,400	1,400	12,700	137,100	68,000	1937-38	0	0 (2)
17.	ELMWOOD	0.31	1964-65	66,300	300	5,900	22,000	22,000	1964-65	15,800	0
18.	EMERALD	0.16	1964-65	14,500	0	1,600	2,400	10,000	1968-69	0	0
19.	ENGLEWILD	0.40	1961-62	52,500	0	60,200 (3)	65,100 (3)	150,500 (3)	1968-69	0	53,500 (2)
20.	FAIR OAKS	0.21	1935-36	28,500	3,500	12,500	103,200	74,800	1935-36	2,100	15,900
21.	FERN	0.30	1935-36	34,000	5,400	23,900	137,900	79,600	1968-69	11,100	11,900
22.	GOULD	0.47	1947-48	53,900	5,600	15,500	87,500	38,300	1965-66	3,000	21,800
23.	HAINES	1.53	1935-36	158,600	7,700	31,700	172,900	33,700 E.	1937-38	0	0
24.	HALLS*	1.06*	1935-36	93,500	5,500	55,200	417,700	96,300	1937-38	23,900	58,900
25.	HARROW	0.43	1958-59	88,300	0	63,400 (3)	66,100 (3)	147,400 (3)	1968-69	0	51,700 (2)
26.	HAY	0.20	1936-37	39,800	2,300	5,700	54,100	63,000 E.	1937-38	4,200	0 (3)
27.	HILLCREST	0.35	1962-63	71,700	0	10,300	33,700	33,300	1964-65	0	0
28.	HOG	0.30	1969-70	53,100	(1)	(1)	(1)	(1)	(1)	(1)	0
29.	HOOK EAST	0.18	1967-68	29,000	(1)	40,200 E. (3)	40,200 E. (3)	213,900 E. (3)	1968-69	0	38,500 (2)
30.	KINNELOA	0.20	1964-65	18,400	3,400	17,600 (3)	34,600 (3)	88,100 (3)	1968-69	0	21,000 (2)
31.	KINNELOA-WEST	0.16	1966-67	28,400	4,200	22,200 (3)	30,400 (3)	138,500 (3)	1968-69	0	23,900 (2)
32.	LANNAN	0.25	1954-55	56,500	0	4,500	24,500	30,300	1954-55	0	0
33.	LAS FLORES	0.45	1935-36	63,600	3,700	19,900	157,900	80,000 E.	1937-38	0	28,400
34.	LA TUNA	5.34	1955-56	518,400	0	67,300	174,300	12,600	1968-69	0	0
35.	LIMEKILN	3.69	1963-64	170,600	15,500	36,500 (3)	106,400 (3)	11,500	1965-66	0	0 (2)
36.	LINCOLN	0.50	1935-36	42,000	1,700	28,400 (3)	111,500 (3)	55,800 (3)	1968-69	0	0
37.	LITTLE DALTON	3.31	1959-60	733,500	5,500	337,800	695,700	102,100	1968-69	0	461,900
38.	MADDOCK	0.25	1954-55	32,600	200	11,000	31,200	43,800	1968-69	0	12,600
39.	MAY NO. 1	0.70	1953-54	78,500	11,800	45,800 (3)	134,900 (3)	91,900	1966-67	26,300	45,800
40.	MAY NO. 2	0.09	1953-54	15,500	1,800	4,100	13,200	68,600	1966-67	6,600	4,200
41.	MC CLURE	0.62	1953-54	93,300	0	3,100	55,500	35,000	1964-65	0	0
42.	MORGAN	0.60	1964-65	49,000	0	13,000	13,600	21,600	1968-69	0	14,300
43.	NICHOLS	0.94	1937-38	32,200	3,300	6,100	94,800	23,200	1951-52	6,500	0 (2)
44.	PICKENS*	1.84*	1935-36	118,400	500	48,400	455,900	66,400	1937-38	0	0 (2)
45.	ROWLEY	0.58	1953-54	43,300	300	11,300	24,700	19,600	1968-69	12,700	11,000
46.	RUBIO	1.26	1943-44	152,300	0	55,000	108,400	43,700	1968-69	0	63,100
47.	RUBY	0.28	1955-56	32,400	300	8,300	14,800	29,600	1968-69	0	14,500
48.	SANTA ANITA	1.70	1959-60	478,600	6,500 (4)	131,900 (3)(4)	452,000 (3)	77,600 (4)	1961-62	11,000	0 (2)
49.	SAWPIT	2.84	1954-55	740,800	9,300	233,800 (5)(3)	504,400 (5)(3)	82,300 (5)	1968-69	0	305,400
50.	SCHOLL	0.66	1945-46	30,400	1,700	3,500	13,400	5,200	1968-69	0	0 (2)
51.	SCHOOLHOUSE	0.28	1962-63	78,600	0	1,600	29,400	77,200	1962-63	0	0
52.	SHIELDS*	0.27*	1937-38	47,200	1,200	3,300	99,800	130,200	1937-38	0	0
53.	SIERRA MADRE	2.39	1922-28	151,800	2,200	97,600 (6)(3)	283,400 (6)(3)	40,800 (6)(3)	1968-69	0	105,000
54.	SIERRA MADRE VILLA	1.46 (7)	1957-58	490,900	36,400	105,900	330,300	81,200	1961-62	2,500	0 (2)
55.	SNOVER*	0.23*	1936-37	37,900	0	11,200	71,600	91,700	1938-39	8,600	20,900
56.	SOMBRERO	1.06	1969-70	115,300	(1)	(1)	(1)	(1)	(1)	(1)	0
57.	SPINKS	0.44	1958-59	64,600	400	16,400	40,700	37,200	1968-69	0	26,500
58.	STETSON	0.29	1969-70	48,100	(1)	(1)	(1)	(1)	(1)	(1)	0
59.	STOUGH	1.65	1940-41	147,900	0	1,800	132,900	26,800	1964-65	0	0
60.	STURTEVANT	0.03	1967-68	2,300	(1)	300	300	11,200	1968-69	0	0
61.	SUNSET (LOWER)	0.65	1963-64	221,500	0	11,500	46,900	30,000	1964-65	0	0
62.	SUNSET (UPPER)	0.44	1928-29	17,700	1,700	10,100 (3)	74,100 (3)	61,400	1964-65	0	13,200
63.	TURNBULL	0.99	1952-53	27,300	9,700	15,900 (3)	34,400 (3)	16,000 (3)	1968-69	19,200	15,600
64.	VERDUGO	10.03 (8) (9)	1935-36	179,900	13,800	60,600 (3)	605,600 (3)	6,800	1942-43	1,600	0 (2)
65.	WARD*	0.10*	1956-57	14,400	0	3,600	19,100	51,900	1957-58	0	3,700
66.	WEST RAVINE	0.25	1935-36	51,900	4,300	15,500	133,800	119,500	1937-38	13,700	17,400
67.	WILBUR	8.63	1942-43	45,500	25,300	37,300 (3)	465,200 (3)	6,700	1965-66	30,200	41,700
68.	WILDWOOD	0.65	1967-68	23,400	2,100	16,000 (3)	18,100 (3)	24,600 (3)	1968-69	0	20,600
69.	WILSON	2.58	1962-63	363,000	1,700	55,500	154,400	21,500	1968-69	0	0
70.	WINERY	0.18	1968-69	32,500	(7)	9,400	9,400	52,200	1968-69	0	8,200
71.	ZACHAU	0.35	1956-57	36,700	0	10,300	12,700	36,000	1968-69	0	10,700
	TOTALS	81.26		8,163,600	222,500	2,513,300	8,695,000			214,600	2,148,500

*See Footnote (8) below.
E, Estimate
(1) New basins.
(2) Subject to change because of basin excavation scheduled or in progress at the end of 1968-69 Hydrologic Year.
(3) Volume of debris deposited in basin does not include debris which passed over spillway during the storm in the 1968-69 season.
(4) Includes debris sluiced from Santa Anita Reservoir.
(5) Includes debris sluiced from Sawpit Reservoir.
(6) Volume of debris deposited in basin does not include debris sluiced through open parts or notch.
(7) Approximate drainage area includes major portion of Hasting Canyon Drainage Area.
(8) Excludes 6.03 square miles of drainage area controlled by debris basins designated by *.
(9) Uncontrolled drainage area is based on weighted average of the various area changes resulting from debris basin construction in branches of the drainage or other cultural changes.

TABLE XX

DEBRIS PRODUCTION AT RESERVOIRS

1967-68 AND 1968-69

Reservoir [1]	Original Capacity Acre-Feet	Capacity Beginning of 1968-69 Acre-Feet	Capacity Following Storms of 1968-69	Total Debris Removed 1967-68 and 1968-69 Cubic Yards	Acre-Feet	1968-69 Debris Production [2] Cubic Yards	Acre-Feet
Pacoima	6,060	4,453	3,841	363,000	225	987,000	612
Big Tujunga	6,240	3,819	2,758	2,047,300	1,270	1,712,000	1,061
Devil's Gate	4,601	2,598	1,875	204,900	127	1,450,000	899
Eaton Wash	956	758	501	606,600	376	555,600	345
Santa Anita	1,376	635	258	532,400	330	552,000	342
Sawpit	476	269	155	432,400	268	345,200	214
Cogswell	12,298	9,999	9,339	0	0	1,066,000	661
San Gabriel	53,344	40,697	36,749	2,989,400	1,853	6,594,000	4,089
Big Dalton	1,053	692	452	0	0	430,000	267
San Dimas	1,496	1,129	757	0	0	601,000	372
Puddingstone Div.	148	200	42	274,300	170	302,000	187
Puddingstone	17,398	16,856	16,856	0	0	Negligible	+
Live Oak	250	222	176	0	0	74,400	46
Thompson Creek	645	510	448	0	0	100,200	62
Totals				7,450,300		14,769,400	

(1) See tabulation of data in Dams section for drainage area, date completed, and date of latest survey.

(2) Including debris, if any, deposited above spillway elevation.

TABLE XXI

BURNED AREAS

SEASONS 1967-68 AND 1968-69

I PERIOD OCTOBER 1, 1967, TO SEPTEMBER 30, 1968
(FIRES WHICH BURNED OVER 50 ACRES)

MAP REFERENCE	NAME	DATE	ACRES BURNED
1	POWDER	10/8/67	248
2	PALMER	10/15/67	25,000
3	TURNBULL NO. 2	10/15/67	2,000
4	BROWN CANYON	10/16/67	118
5	ROUND MEADOW	10/16/67	100
6	JUNCTION	10/29/67	640
7	LATIGO	10/30/67	2,870
8	FIRESTONE	10/30/67	235
9	BOOTLEGGER	10/31/67	105
10	SHOTGUN	5/18/68	935
11	LA TUNA CANYON	5/27/68	65
12	TEXAS CANYON	6/2/68	68
13	QUIGLEY	6/2/68	255
14	SILVER STREAM	6/3/68	105
15	TRACK	6/14/68	825
16	HILL	6/14/68	70
17	LIEBRE	6/21/68	48,428
18	RESERVOIR	6/21/68	2,440
19	HASKELL	6/25/68	102
20	STRAWBERRY PEAK	7/3/68	89
21	SAN LEANDERO	7/5/68	100
22	COLDWATER	7/5/68	50
23	EASLEY	7/12/68	600
24	GALAXIE	7/23/68	130
25	OLD CANYON	7/25/68	104
26	BOUQUET JUNCTION	8/10/68	58
27	LIVE OAK	8/15/68	80
28	CANYON INN	8/23/68	19,100
29	BROWN	9/6/68	1,785
30	BOOTLEGGERS-SAND	9/9/68	405
31	LIMEROCK	9/9/68	2,846
32	HIDDEN VALLEY	9/25/68	50
33	TENTROCK	9/28/68	92
	BURNS LESS THAN 50 ACRES (18 FIRES)	VARIOUS	419
		TOTAL ACRES BURNED	110,517

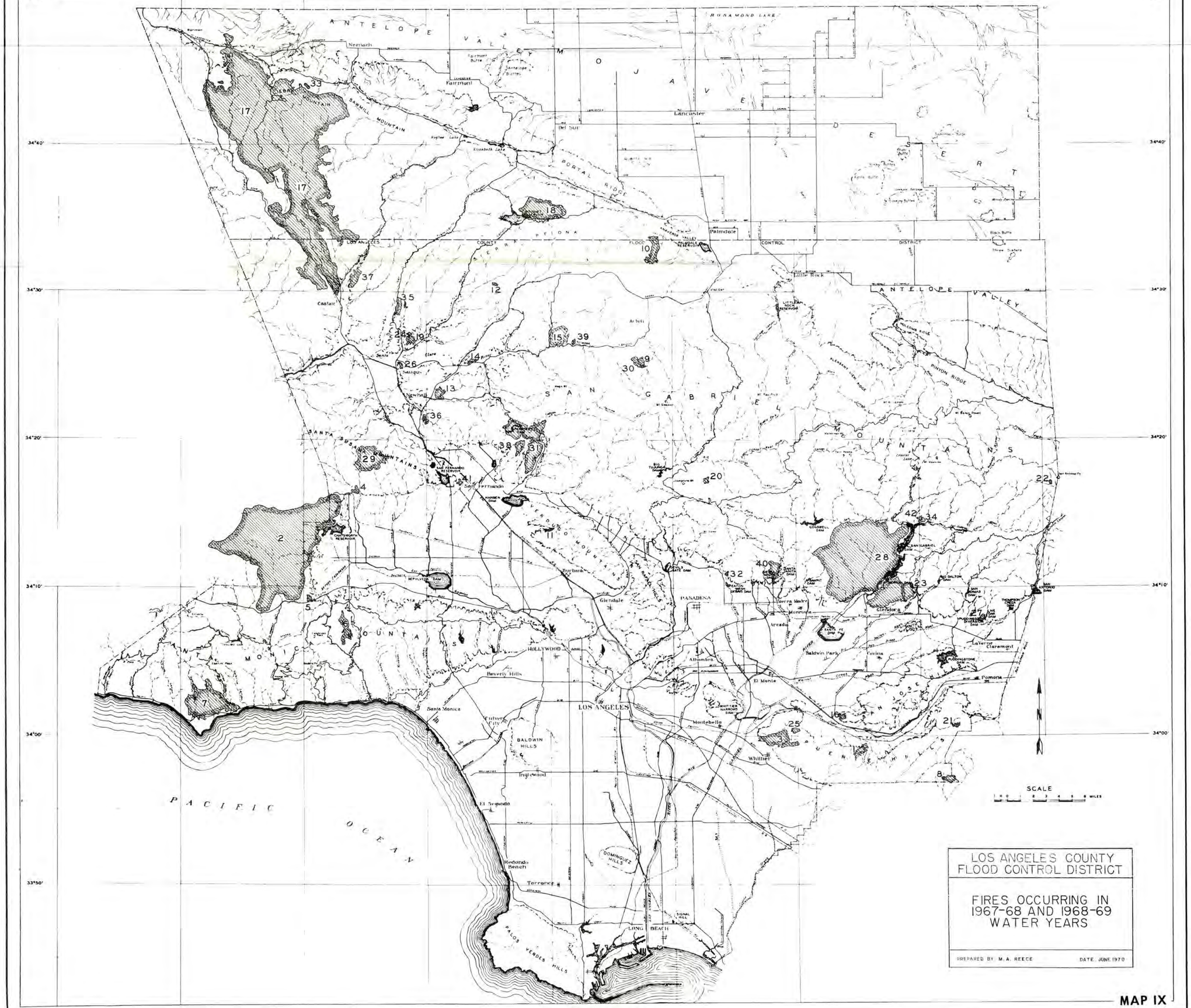
TABLE XXI

BURNED AREAS (Cont.)

SEASONS 1967-68 AND 1968-69

II PERIOD OCTOBER 1, 1968, TO SEPTEMBER 30, 1969
(FIRES WHICH BURNED OVER 50 ACRES)

MAP REFERENCE	NAME	DATE	ACRES BURNED
34	SUSANNA	1/4/69	73
35	SAN FRAN	8/18/69	550
36	ELSMERE	8/26/69	65
37	CASTAIC	9/2/69	785
38	KAGEL	9/5/69	168
39	LONG	9/8/69	130
40	BOLE	9/10/69	800
41	SYLMAR	9/10/69	76
42	RATTLESNAKE	9/12/69	60
	BURNS LESS THAN 50 ACRES (11 FIRES)	VARIOUS	247
		TOTAL ACRES BURNED	2,954



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

FIRES OCCURRING IN 1967-68 AND 1968-69 WATER YEARS

PREPARED BY: M. A. REECE DATE: JUNE 1970

MAP IX

WATER CONSERVATION

WATER CONSERVATION

FOREWORD

Information presented in this section includes amounts of local, imported, and reclaimed water conserved in spreading grounds and basins, reservoirs, and channels, and also information on the barrier projects which prevent seawater intrusion in the coastal area. Pertinent data are presented regarding the locations and descriptions of District conservation facilities, as well as facilities owned by others. Also included are groundwater maps delineating elevations recorded during the biennial 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 meaning in this section: local water is that derived from runoff due to rainfall on the mountain and valley watersheds within or tributary to the District; imported water is obtained from sources outside the District and not tributary to the District; and reclaimed water is the effluent produced by the Los Angeles County Sanitation Districts' water reclamation plant located in the Whittier Narrows Basin.

The rainfall during the 1968-69 water year was the highest since 1952, and was only exceeded four other times since 1873. The high rate of runoff during this water year hampered conservation activities, yet a record high of 304,000 acre-feet was conserved in District spreading facilities. An additional 208,460. acre-feet were conserved in channels and reservoirs during 1968-69, giving a grand total of 512,460 acre-feet conserved.

SPREADING GROUNDS

The total gross acreage of spreading grounds owned and operated by the District during this biennial report period amounted to 2,106 acres. The District also assisted in the operation and maintenance of 844 acres of spreading grounds managed by other agencies. An additional 246 acres of spreading grounds in which the District cooperates are controlled and operated by other agencies. The total gross acreage of spreading grounds in the County is 3,196 acres with a combined infiltration capacity of over 2,400 cfs.

During the biennial report period, the San Dimas Canyon Spreading Grounds were enlarged by developing additional spreading basins in the San Dimas Wash between Romola Road and San Dimas Canyon Road. Also during the report period, San Gabriel Coastal Spreading Grounds headworks and intake facilities were modified during the improvement of the San Gabriel River by the Corps of Engineers. At Pacoima Spreading Grounds, various basins and structures were modified during the improvement of Devonshire and Arleta Streets by the City of Los Angeles.

Coagulation facilities were installed at the Rio Hondo Spreading Grounds and also at the San Gabriel Coastal Spreading Grounds during the report period. These facilities are necessary to clarify the silt-laden storm waters so that they can be conserved rather than wasted to the ocean.

IMPORTED WATER

During this biennial period, imported Colorado River water for spreading was obtained from The Metropolitan Water District. This water was purchased with funds provided by Zone I,

the Central and West Basin Water Replenishment District, and the Upper San Gabriel Valley Municipal Water District.

Imported water for the Coastal Plain, purchased with Zone I funds and by the Central and West Basin Water Replenishment District, was spread in the District's facilities in the Rio Hondo and San Gabriel River systems.

Imported water, purchased by the Upper San Gabriel Valley Municipal Water District, was spread in the San Gabriel River north of Valley Boulevard.

A summary of imported water conserved is shown in Table XXV.

A Metropolitan Water District outlet was constructed on the Foothill Feeder in San Dimas Wash just downstream of San Dimas Canyon Road. The construction of the new outlet was financed with Zone I funds. The San Dimas outlet, designated as Cen B-48, can be used to deliver raw Colorado River water if excess supplies exist in MWD facilities. The MWD replenishment outlets located on the Middle Feeder are restricted to seasonal use as the feeder is used to deliver domestic supplies during high-demand periods.

RECLAIMED WATER

The County Sanitation Districts' Whittier Narrows Water Reclamation Plant, in operation since 1962, produced from 12 to 18 mgd of high quality activated sludge effluent during the 1967-68 and 1968-69 water years. 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. Reclaimed water comprised approximately one-fourth of the total purchased water spread in the Montebello Forebay from October 1, 1967, to September 30, 1969.

WATER QUALITY

Water samples from surface flows and water wells are obtained and analyzed in compliance with established programs to maintain a continuing record of natural surface waters and groundwaters. During the period covered by this report, 1,868 complete and 803 partial analyses were made for this purpose.

A surveillance program initiated in July 1967 for the purpose of monitoring the base flows of Dominguez Channel and the Los Angeles River was expanded to include other major courses. Those added to the present program are Ballona Creek, Coyote Creek, and the Rio Hondo-San Gabriel River systems. The surveillance program provides the means to evaluate water quality within the District.

Samples from 46 representative wells in the Coastal Plain were collected by water agencies and this District and were analyzed for chemical quality. This cooperative deep well sampling program was established to determine the degree of intermixing or replacement of native groundwater by imported Colorado River water and reclaimed water spread in the Montebello Forebay area. During the period from 1954 to 1969, more than 1,250,000 acre-feet of Colorado River water and reclaimed water have been spread in the Montebello Forebay.

The sampling program indicates that Colorado River water has largely replaced local water in the Montebello Forebay, and has extended traces of its influence through a radius of several miles from the spreading grounds.

BARRIER PROJECTS

West Coast Basin Barrier Project

The West Coast Basin Barrier Project, just inland of the Santa Monica Bay coastline, is preventing the intrusion of seawater into the underground water bearing strata by the injection of freshwater to form a pressure barrier. The project is essentially complete. Since the project's inception in 1953 as a test program, the barrier has been expanded from a one-mile reach to about nine miles. An average of 52 cubic feet per second of filtered Colorado River water was injected along the barrier project during the biennial period.

Dominguez Gap Barrier Project

The construction of the Dominguez Gap Barrier Project began during this report period. This barrier project will prevent seawater intrusion from the San Pedro Bay into the West Coast Basin through the Dominguez Gap area. The project consists of drilling recharge and observation wells and the construction of water supply and disposal pipelines and also pressure reducing and chlorination stations. It is anticipated that the project will become operational in the summer of 1970 with a total injection rate of 20 cubic feet per second.

Alamitos Barrier Project

Operation of the partially complete Alamitos Barrier Project continued during the report period. The project provides protection over the most critical reach of intrusion in the Central Basin. At the present time, more than one and one-half miles are protected. The need for additional facilities is being investigated.

A summary of the amounts injected at the barrier projects and extracted at Alamitos Barrier Project is shown on Table XXVIII.

EXPLORATION AND OBSERVATION WELLS

During this biennial report period, approximately 111 wells were drilled for monitoring groundwater levels and obtaining geologic data for use in planning and operating various District water conservation projects. Most of these wells were drilled by the District; however, some were drilled by cooperating agencies and were preserved by the District for future use.

SEASONAL DATA AND MAPS

During this biennial period, about 66,000 groundwater measurements were obtained from approximately 3,600 wells. Hydrographs for selected key wells are included in this report.

Although the rainfall average over Los Angeles County was below normal (82 percent) during the 1967-68 water year, it was above normal (172 percent) during the 1968-69 water year. As a result, groundwater levels throughout most areas of the County either rose or remained nearly stable during the biennial report period. Historic low elevations were present at the end of the biennial report period in that portion of Chino Basin within Los Angeles County, in the Lancaster Basin in Antelope Valley, and in the Main San Fernando Basin. The above normal rainfall during 1968-69 created rising water conditions and spring flows at locations where none had been experienced for many years. Rising water along the groundwater barrier north of Foothill Boulevard in the City of Claremont caused a marshy condition at a

number of residences in the area. This barrier or fault is known as the Indian Hill Barrier and separates the Upper Claremont Heights Basin from the Pomona Basin. Apparent artesian flow was present in 1967-68 and reappeared in the spring of 1969 in the vicinity of Pilgrims Place, Claremont, which is in the Pomona Basin southerly of the Indian Hill Barrier.

GROUNDWATER BASINS

Groundwater basins in Los Angeles County are grouped under five local watersheds; namely, San Fernando Valley, San Gabriel Valley, Coastal Plain, Santa Clara Valley, and Antelope Valley. Reference is made to Map No. X for basin locations. For a more detailed discussion of various groundwater basins within the District, reference is made to previous reports on hydrologic data published for the years 1941-42, 1951-53, and 1957-59.

San Fernando Valley

During the present biennial report period, approximately 97,000 acre-feet of local and imported water were spread in the San Fernando Valley, compared to 123,000 acre-feet spread during the previous biennial report period. Historic low elevations occurred in the Main San Fernando Basin north of Van Nuys. A rise in groundwater levels ranging between 2 and 10 feet took place in most areas of the San Fernando Valley sub-basins.

San Gabriel Valley

A general net rise in groundwater levels was experienced throughout the Main San Gabriel Basin for the two-year period between November 1967 and November 1969. These increases ranged from 2 feet in the vicinity of west Azusa and Irwindale in the Santa Fe Dam area; 4 feet in the vicinity of Alhambra and El Monte; 5 feet in the vicinity of Duarte, Monrovia, Baldwin Park, and South Arcadia near Peck Road Spreading Basin; up to 16 feet near Puente; and approximately 20 feet in Covina and portions of Arcadia. These changes in groundwater elevations represent a net increase in groundwater storage of approximately 66,000 acre-feet. This rise in groundwater elevation resulted principally from infiltration from rainfall and from approximately 360,000 acre-feet of local and imported water spread in District spreading facilities or percolated in the Santa Fe Reservoir and permeable bottomed channels. With the exception of the Chino and Pomona Basins in the Upper Santa Ana River drainage area, all of the San Gabriel Valley tributary basins were higher in groundwater elevations.

Coastal Plain

Groundwater levels in the Montebello Forebay have remained fairly stable due to controlled spreading of local and imported water. Levels in the pressure aquifers north of Signal Hill were 10 to 20 feet lower in the fall of 1969 as compared to the fall of 1967, probably reflecting heavy pumping in that area. Elsewhere in the Central Basin, there were general indications of water level recovery ranging from 5 feet near Vernon, 9 feet near South Gate, to as much as 15 feet near Downey.

In the West Coast Basin deep aquifers northwest of Long Beach, water levels appeared to be as much as five feet lower in 1969 as compared to 1967. During the past two years, recovery in water levels of about five feet has been observed in the deep aquifers in the areas near Hawthorne, Inglewood, and El Segundo. Elsewhere in the West Coastal Plain, groundwater levels have remained fairly stable.

Santa Clara River Valley

Water level recovery was general throughout most of the area during the biennial report peri
Near the communities of Solamint and Honby, areas which were plagued by high groundwate
conditions in 1969, groundwater levels rose more than 90 feet. Near Saugus and Newhall, t
increase in groundwater levels ranged between 28 and 40 feet. Around Castaic Junction, th
rise was approximately 12 feet.

Antelope Valley

Groundwater levels in the Lancaster Basin have dropped about five feet during the biennial
report period. In the Little Rock Basin near the San Gabriel Mountains, an increase in grou
water levels of approximately four feet was noted for the two-year period in F.C. Well No. 8

In addition to the maps prepared by the District, groundwater maps for the Antelope Valley
have been traced from contours prepared by the United States Geological Survey. All ground
water maps are published herein immediately following the well hydrographs.

TABLE XXII

RESERVOIR AND CHANNEL ABSORPTION

EXCLUSIVE OF SPREADING GROUNDS

1967-1969

STREAM	REACH OF STREAM WHERE ABSORPTION OCCURRED	TOTAL RELEASE TO REACH A.F.	ABSORPTION IN CHANNELS, RESERVOIRS, AND DIVERSIONS A.F.	EXCESS OF RELEASE OVER ABSORPTION A.F.	YEAR
PACOIMA	DAM TO LINED CHANNEL	3,800.	1,180.(1)	2,620.	1967-68
		34,320.	2,610.(1)	31,690.	1968-69
TUJUNGA	MOUTH OF CANYON TO LINED CHANNEL	16,610.	6,740.(1)(2)	9,870.	1967-68
		172,010.	25,220.(1)(2)	146,790.	1968-69
ARROYO SECO	DEVIL'S GATE RESERVOIR		4,380.(1)		1967-68
			5,080.(1)		1968-69
EATON	EATON WASH DAM		900.(1)		1967-68
			1,960.(1)		1968-69
SANTA ANITA	SANTA ANITA DAM TO LINED CHANNEL	3,580.	650.(1)	2,930.	1967-68
		38,640.	1,550.(1)	37,090.	1968-69
RIO HONDO(3)	SANTA FE DAM TO SAWPIT WASH	35.	35.	0	1967-68
		24,340.	1,120.	23,220.	1968-69
SAN GABRIEL	MOUTH OF CANYON TO FOOTHILL BOULEVARD	35,740.	11,350.	24,390.	1967-68
		644,800.	23,200.	621,600.	1968-69
SAN GABRIEL(3)	FOOTHILL BOULEVARD TO SANTA FE DAM	24,260.	6,710.(1)	17,550.	1967-68
		598,900.	141,600.(1)	457,300.	1968-69
SAN DIMAS	SAN DIMAS DAM TO LINED CHANNEL	3,070.	894.(1)	2,180.	1967-68
		32,190.	3,090.(1)	29,100.	1968-69
WALNUT	PUDDINGSTONE DAM TO LINED CHANNEL	14,280.	1,100.	13,180.	1967-68
		35,770.	2,590.	33,180.	1968-69
THOMPSON	THOMPSON CREEK DAM		166.		1967-68
			437.		1968-69
TOTALS			34,110.		1967-68
			208,460.		1968-69

NOTES: (1) INCLUDES PERCOLATION AND EVAPORATION LOSSES IN RESERVOIRS.
(2) INCLUDES WATER DIVERTED FOR USE.
(3) PART OF PERCOLATION IN THE SAN GABRIEL RIVER AND RIO HONDO. ALSO APPEARS IN TABLE XXIV.

TABLE XXIII

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF DATA ON SPREADING FACILITIES
OWNED AND OPERATED BY THE DISTRICT
SEPTEMBER 1969

GROUNDS	TYPE	SEASON FIRST USED	AREA IN ACRES		CAPACITIES				LOCATION	SOURCE OF WATER	REMARKS
			GROSS	WETTED	CHANNEL** CFS	INTAKE CFS	STORAGE A.F.	PERC.* CFS			
LOPEZ	SHALLOW BASINS	1956-57	18	13	-	25	25	7	SOUTHEASTERLY SIDE OF PACOIMA WASH, NORTHEASTERLY OF FOOTHILL BOULEVARD.	CONTROLLED FLOW FROM PACOIMA DAM AND LOPEZ FLOOD CONTROL BASIN.	THE FLOW IS DIVERTED FROM LOPEZ FLOOD CONTROL BASIN VIA CANAL TO THE SPREADING GROUNDS.
PACOIMA	SHALLOW BASINS	1932-33	169	116	17,000	400	392	100	BOTH SIDES OF OLD PACOIMA WASH CHANNEL FROM ARLETA STREET SOUTHWESTERLY TO WOODMAN AVENUE.	CONTROLLED FLOW FROM PACOIMA DAM. PARTIALLY CONTROLLED FLOW FROM LOPEZ FLOOD CONTROL BASIN, UNCONTROLLED FROM EAST CANYON AND PACOIMA WASH.	AREA REDUCED AS A RESULT OF DEVONSHIRE STREET EXTENSION.
HANSEN	SHALLOW BASINS	1944-45	156	110	22,000	450	230	185	NORTHWESTERLY SIDE OF TUJUNGA WASH FROM ABOVE GLENOAKS BOULEVARD SOUTHWESTERLY TO SAN FERNANDO ROAD.	CONTROLLED FLOW FROM HANSEN DAM AND BIG TUJUNGA DAM.	GENERALLY WATER IS AVAILABLE FOR SPREADING ONLY DURING YEARS OF NORMAL OR ABOVE NORMAL RAINFALL.
BRANFORD	DEEP BASIN	1956-57	12	7	1,540	1,540	135	1	SOUTHWESTERLY OF ARLETA STREET ABOVE CONFLUENCE OF TUJUNGA CHANNEL AND PACOIMA DIVERSION CHANNEL.	UNCONTROLLED FLOWS FROM BRANFORD STREET DRAIN.	BASIN DEVELOPMENT 85% COMPLETE. OUTLET CAPACITY 1540 CFS TO PACOIMA DIVERSION CHANNEL.
ARROYO SECO	SHALLOW BASINS	1948-49	24	13	-	100	30	15	EASTERLY SIDE OF ARROYO SECO, LOWER END 0.5 MILE ABOVE DEVIL'S GATE DAM.	UNCONTROLLED FLOW FROM ARROYO SECO AND THE ALTADENA STORM DRAIN.	SPREADING GROUNDS ARE HELD UNDER EASEMENT FROM THE CITY OF PASADENA.
EATON SPREADING GROUNDS	DEEP AND SHALLOW BASINS	1947-48	29	23	6,600	100	420	20	EASTERLY SIDE OF EATON WASH BELOW EATON DAM TO FOOTHILL BOULEVARD.	CONTROLLED FLOW FROM EATON WASH DAM AND SIERRA MADRE VILLA CHANNEL.	THREE DEEP BASINS COMPRISE 15 ACRES. THE SHALLOW STRIP BASINS TOTAL 14 ACRES.
SANTA ANITA	SHALLOW BASINS	1944-45	20	8	-	20	25	7	WESTERLY SIDE OF SANTA ANITA WASH 1.25 MILES ABOVE FOOTHILL BOULEVARD.	CONTROLLED FLOW FROM SANTA ANITA DAM AND SANTA ANITA DEBRIS DAM.	THE HEADWORKS LOCATED UPSTREAM OF THE DEBRIS DAM DIVERTS WATER TO SANTA ANITA SPREADING GROUNDS AND CITY OF SIERRA MADRE SPREADING GROUNDS.
SAWPIT	SHALLOW BASINS	1946-47	12	4	-	30	13	12	WESTERLY SIDE OF SAWPIT WASH BELOW MOUTH OF CANYON AT HEAD OF NORUMBEGA STREET, MONROVIA.	CONTROLLED FLOWS FROM SAWPIT DAM AND SAWPIT DEBRIS DAM.	
LITTLE DALTON	SHALLOW BASINS, DITCHES, AND CHECKS	1931-32	16	3	-	20	4	5	WESTERLY OF GLENDORA MT. ROAD, FROM LITTLE DALTON DEBRIS DAM SOUTH TO EAST PALM DRIVE.	CONTROLLED FLOW FROM LITTLE DALTON DEBRIS DAM.	AREA REDUCED AS A RESULT OF DEBRIS DISPOSAL.
BIG DALTON	SHALLOW BASINS, DITCHES, AND CHECKS	1930-31	24	13	-	45	25	15	WESTERLY SIDE OF BIG DALTON WASH. INTAKE ONE HALF MILE ABOVE SIERRA MADRE AVENUE.	CONTROLLED FLOWS FROM BIG DALTON DAM AND BIG DALTON DEBRIS DAM.	
LIVE OAK	SHALLOW BASINS	1961-62	5	2	-	15	2	5	WESTERLY SIDE OF LIVE OAK WASH, NORTH OF BASE LINE ROAD (PROJECTED).	CONTROLLED FLOW FROM LIVE OAK DAM AND LIVE OAK DEBRIS DAM.	WEST SIDE OF GROUNDS NOW COMPLETED.
LAGUNA SPREADING GROUNDS	SHALLOW BASINS	1962-63	6	3	-	-	5	1	EAST SIDE LONG BEACH FREEWAY, ONE HALF MILE NORTH OF BROOKLYN AVENUE.	LOCAL RUNOFF FROM ALHAMBRA AND EL SERENO VIA DORCHESTER DRAIN.	THE PIT IN WHICH BASINS ARE LOCATED WAS DESIGNED AS A RETENTION BASIN FOR THE DORCHESTER STORM DRAIN.
EATON SPREADING BASIN	DEEP BASIN	1956-57	16	-	9,600	400	220	10	EAST SIDE OF EATON CHANNEL NORTH OF DUARTE ROAD, 0.6 MILE SOUTH OF HUNTINGTON DRIVE.	CONTROLLED FLOW FROM EATON WASH DAM AND UNCONTROLLED FLOWS BETWEEN DAM AND SPREADING BASIN.	BASIN UNDER DEVELOPMENT, THEREFORE, STORAGE AND PERCOLATING CAPACITY SUBJECT TO CHANGE.
PECK ROAD	DEEP BASIN	1959-60	157	85	30,100	30,100	5,000	2	CONFLUENCE OF SAWPIT AND SANTA ANITA WASHES.	ALL FLOWS IN SAWPIT AND SANTA ANITA WASHES.	INFILTRATION CAPACITY DETERIORATED AFTER FEBRUARY 1969.
BUENA VISTA	DEEP BASIN	1954-55	10	6	2,900	2,900	194	8	1.0± MILE EASTERLY OF SAWPIT WASH. 0.5± MILE NORTHERLY OF ARROW HIGHWAY, BETWEEN MERIDIAN STREET AND BUENA VISTA CHANNEL.	CONTROLLED FLOW FROM SANTA FE DAM AND UNCONTROLLED FLOW FROM BUENA VISTA CHANNEL.	NO OUTFLOW EXPECTED EXCEPT CAPITAL STORM, BUT A SMALL OUTLET STRUCTURE OF 150 CFS PROVIDED. INLET CAPACITY OF SANTA FE DIVERSION 120 CFS.
SANTA FE	SHALLOW BASINS	1953-54	180	120	-	500	200	220	WITHIN SANTA FE DAM RESERVOIR AND SPILLWAY AREAS.	CONTROLLED FLOWS FROM SAN GABRIEL CANYON AND UNCONTROLLED FLOWS FROM BRADBURY CHANNEL AND SAN GABRIEL RIVER BELOW MORRIS RESERVOIR.	RIGHT OF WAY, HELD UNDER LICENSE FROM THE FEDERAL GOVERNMENT INCLUDES 30± ACRES IN SAN GABRIEL RIVER BED FOR EARTH DIVERSION LEVEE. CONSTRUCTION OF THE 605 FREEWAY REDUCES THE SPREADING AREA IN THE RESERVOIR AND A SUBSTITUTE AREA WILL BE PROVIDED DOWNSTREAM OF THE SPILLWAY.

TABLE XXIII (Continued)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

WATER CONSERVATION DIVISION

SUMMARY OF DATA ON SPREADING FACILITIES

OWNED AND OPERATED BY THE DISTRICT

SEPTEMBER 1969

GROUNDS	TYPE	SEASON FIRST USED	AREA IN ACRES		CAPACITIES				LOCATION	SOURCE OF WATER	REMARKS
			GROSS	WETTED	CHANNEL** CFS	INTAKE CFS	STORAGE A.F.	PERC.* CFS			
IRWINDALE	DEEP BASIN	1958-59	17	14	20,000	450	495	40	NORTHEASTERLY OF INTERSECTION OF BIG DALTON CHANNEL AND IRWINDALE AVENUE; CONTINUES 1,300 FEET EAST OF IRWINDALE AVENUE.	BIG DALTON CHANNEL CONTROLLED FLOWS FROM BIG AND LITTLE DALTON DEBRIS DAMS AND PUDDINGSTONE DIVERSION DAM: UNCONTROLLED FLOWS.	
CITRUS	SHALLOW BASIN	1960-61	19	15	–	25	20	28	SOUTH SIDE OF BIG DALTON WASH BETWEEN CITRUS AND CERRITOS AVENUES.		AZUSA IRRIGATION COMPANY ABANDONED PIPELINE IN 1967; NO SPREADING OPERATIONS AFTER THAT DATE.
BEN LOMOND	SHALLOW BASIN	1958-59	24	17	–	25	25	34	BOTH NORTH AND SOUTH SIDES OF SAN DIMAS WASH CHANNEL AT SOUTHWESTERLY CORNER OF INTERSECTION OF ARROW HIGHWAY AND BEN LOMOND AVENUE.	CONTROLLED RELEASES FROM COVINA IRRIGATING COMPANY PIPELINE.	SPREADING GROUNDS UTILIZED TO CONSERVE EXCESS SURFACE SAN GABRIEL CANYON WATER RELEASES TO THE COVINA IRRIGATING COMPANY PIPELINE.
WALNUT CREEK SPREADING BASIN	DEEP BASIN	1962-63	16	8	8,000	150	166	5	WEST SIDE OF WALNUT WASH CHANNEL, NORTH OF SAN BERNARDINO FREEWAY.	CONTROLLED FLOW FROM PUDDINGSTONE DAM AND UNCONTROLLED FLOW FROM WALNUT WASH CHANNEL EXCESS WATER FROM COVINA IRRIGATING COMPANY.	
SAN DIMAS CANYON SPREADING GROUNDS	SHALLOW BASIN	1965-66	23	11	–	25	22	12	SOUTHEAST SIDE OF SAN DIMAS WASH BETWEEN PUDDINGSTONE DIVERSION AND SAN DIMAS CANYON ROAD.	CONTROLLED RELEASES FROM PUDDINGSTONE DIVERSION DAM.	DEVELOPED LOWER AREA BETWEEN RAMOLA AND SAN DIMAS CANYON ROAD.
FORBES SPREADING BASIN AND SAN DIMAS SPREADING DEVELOPMENT	NARROW CANAL AND DEEP BASIN	1964-65	46	–	–	25	65	10	SOUTHEAST SIDE OF SAN DIMAS CHANNEL FROM FOOTHILL BOULEVARD VIA CANAL TO FORBES BASIN AND INCLUDES FORBES BASIN.	CONTROLLED RELEASES FROM PUDDINGSTONE DIVERSION DAM.	SPREADING DEVELOPMENT NO LONGER OPERATIVE, NEW DIVERSION BEING CONSIDERED.
SAN GABRIEL COASTAL	SHALLOW BASIN	1938-39	128	101	–	300	400	80	WESTERLY SIDE OF SAN GABRIEL RIVER, SOUTHERLY FROM WHITTIER BOULEVARD TO WASHINGTON BOULEVARD.	CONTROLLED FLOW FROM DAMS IN SAN GABRIEL CANYON AND SANTA FE DAM, AND UNCONTROLLED VALLEY RUNOFF BELOW SANTA FE DAM VIA SAN GABRIEL RIVER; ALSO IMPORTED AND RECLAIMED WATER.	RIVER IMPROVEMENT COMPLETED IN 1968.
SAN GABRIEL RIVER UPPER	TEMPORARY CHECK LEVEES	1965-66	196 ±	196 ±	–	–	–	180	SAN GABRIEL RIVER FROM SANTA FE DAM TO RISING WATER.	CONTROLLED FLOW FROM DAMS IN SAN GABRIEL CANYON AND SANTA FE DAM AND UNCONTROLLED VALLEY RUNOFF BELOW SANTA FE DAM; ALSO IMPORTED WATER.	CHECK LEVEES DEVELOPED IN RIVER TO SPREAD WATER.
SAN GABRIEL RIVER LOWER	TEMPORARY CHECK LEVEES	1954-55	133	133	–	–	–	100	SAN GABRIEL RIVER FROM WHITTIER NARROWS DAM TO FLORENCE AVENUE.	SAME AS UPPER PORTION; ALSO RECLAIMED WATER.	SAME AS UPPER PORTION. SEE SAN GABRIEL COASTAL REMARKS
RIO HONDO COASTAL	SHALLOW BASIN	1937-38	570	455	40,000	900	1,875	450	EASTERLY SIDE OF RIO HONDO SOUTHERLY FROM U.P.R.R. (SOUTH OF WHITTIER BOULEVARD) TO SLAUSON AVENUE; WEST SIDE OF RIO HONDO CHANNEL FROM 0.2± MILE ABOVE WHITTIER BOULEVARD SOUTH TO FOSTER BRIDGE BOULEVARD.	CONTROLLED RELEASES FROM SAN GABRIEL CANYON DAMS AND SANTA FE DAM, AND CONTROLLED RELEASES OUT OF WHITTIER NARROWS DAM FROM VALLEY RUNOFF VIA RIO HONDO; ALSO IMPORTED AND RECLAIMED WATER.	IN COOPERATION WITH THE CORPS OF ENGINEERS, THE THE DISTRICT OPERATES 1000 ACRE-FOOT POOL AT WHITTIER NARROWS DAM FOR RETENTION OF STORM WATERS
DOMINGUEZ GAP	DEEP BASIN	1957-58	54	26	–	20	237	3	CONTINUES 1.0 MILE SOUTH FROM DEL AMO BOULEVARD, AND BORDERS THE EASTERN AND WESTERN SIDES OF THE LOS ANGELES RIVER.	CONTROLLED FLOW FROM LOS ANGELES RIVER LOW FLOW CHANNEL AND UNCONTROLLED FLOWS FROM STORM DRAINS.	EAST SIDE BASIN USED FOR FLOOD REGULATION WITH SOME CONSERVATION STORAGE. INTAKE OF 20CFS IS THE FIGURE FOR LOW FLOW DIVERSION FROM THE LOS ANGELES RIVER. WEST SIDE BASIN IS FED BY A 42-INCH CONCRETE PIPE FROM THE EAST SIDE BASIN.
WALTERIA SPREADING BASIN	DEEP BASIN	1962-63	26	–	–	–	85	6	WEST SIDE OF HAWTHORNE AVENUE AT 236TH STREET.	LOCAL STORM DRAINS.	BASIN USED FOR FLOOD REGULATIONS WITH SOME CONSERVATION STORAGE.
TOTALS			2,106	1,502			10,310	1,561			

* 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.

TABLE XXIV
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF WATER SPREAD AT GROUNDS
OWNED AND OPERATED BY THE DISTRICT
SEPTEMBER 1969

RECORD OF LOCAL WATER SPREAD
ACRE FEET

	SAN FERNANDO VALLEY				SAN GABRIEL VALLEY - FOOTHILLS								
SEASON	LOPEZ	PACOIMA	HANSEN	BRANFORD	ARROYO SECO	EATON S.G.	SANTA ANITA	SAWPIT	LITTLE DALTON	BIG DALTON	LIVE OAK	SUBTOTAL	SEASON
1930-31										10		10	1930-31
32									160	394		554	32
33		26							0	0		26	33
34		230							0	100		330	34
35		1,200							0	131		1,331	35
36		2,000							0	0		2,000	36
37		4,680							275	866		5,821	37
38		3,844							287	397		4,528	38
39		363							12	49		424	39
40		907							0	0		907	40
41		9,775							1,166	1,528		12,469	41
42		37							0	0		37	42
43		3,744							1,084	1,191		6,019	43
44		7,223							469	543		8,235	44
45		1,467	7,651				337		290	64		9,809	45
46		514	2,268				0		73	47		2,902	46
47		3,763	8,725				141	89	89	174		12,981	47
48		0	0			1	0	0	0	0		1	48
49		0	0		108	0	0	8	0	88		204	49
50		245	0		283	61	0	0	28	66		683	50
51		0	0		19	0	0	19	0	0		38	51
52		6,121	16,780		986	1,196	448	517	563	856		27,467	52
53		1,651	1,271		216	0	58	56	9	3		3,264	53
54		1,891	1,014		455	190	265	0	161	370		4,346	54
55		205	0		197	0	145	0	0	0		547	55
56	0	566	2	0	301	181	161	180	30	180		1,601	56
57	28	475	0	38	397	0	2	38	11	16		1,005	57
58	1,030	10,922	18,407	20	2,088	861	1,576	978	658	2,380		38,920	58
59	0	352	1,023	+	352	130	185	199	22	145		2,408	59
60	0	379	0	6±	0	0	810	38	0	0		1,233	60
61	0	78	0	183	0	0	304	29	0	27	0	621	61
62	673	5,635	12,570	402	1,103	1,021	664	547	394	1,212	38	24,259	62
63	52	643	0	415	249	7	449	126	43	77	+	2,061	63
64	212	1,206	0	376	317	24	327	135	18	165	0	2,780	64
65	0	1,199	0	563	744	324	575	161	100	193	0	3,859	65
66	1,020	11,701	19,806	391	1,036	2,000	1,641	1,367	987	2,063	89	42,101	66
67	1,472	22,800	31,383	623	1,828	1,450	1,563	2,458	1,846	3,766	330	69,519	67
68	1,938	1,819	9,836	339	855	305	638	790	187	848	0	17,555	68
69	893	14,262	32,464	461	609	3,249	494	321	335	2,074	803	55,965	69
TOTALS	7,318	121,923	163,200	3,817	12,143	11,000	10,783	8,056	9,297	20,023	1,260	368,820	TOTALS

TABLE XXIV (Continued)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF WATER SPREAD AT GROUNDS
OWNED AND OPERATED BY THE DISTRICT
SEPTEMBER 1969

RECORD OF LOCAL WATER SPREAD
ACRE-FEET

	MAIN SAN GABRIEL VALLEY											COASTAL PLAIN						
SEASON	EATON S.B.	PECK ROAD S.B.	BUENA VISTA S.B.	SANTA FE S.G.	IRWINDALE S.B. (A)	CITRUS S.G.	BEN LOMOND S.G.	WALNUT S.B.	SAN DIMAS CANYON S.G. (B)	FORBES S.B. SAN DIMAS S.D. (C)	SAN GABRIEL SYSTEM UPPER (D)	SAN GABRIEL SYSTEM LOWER (E)	RIO HONDO S.G. (F)	LAGUNA S.B.	WALTERIA S.B.	DOMINGUEZ S.G.	TOTAL	SEASON
1930-31																	10	1930-31
32																	554	32
33																	26	33
34																	330	34
35																	1,331	35
36																	2,000	36
37																	5,821	37
38													3,660				8,188	38
39												2,603	0				3,027	39
40												0	1,702				2,609	40
41												4,684	9,830				26,983	41
42												0	2,170				2,207	42
43												0	0				6,019	43
44												0	0				8,235	44
45												0	0				9,809	45
46												0	9,548				12,450	46
47												384	4,842				18,207	47
48												0	3,760				3,761	48
49												0	0				204	49
50												0	0				683	50
51												0	0				38	51
52												5,412	400				33,279	52
53												4,023	3,368				10,655	53
54				3,500								4,859	4,621				17,326	54
55			10	0								9,518	0				10,075	55
56	0		227	0								5,869	1,924				9,621	56
57	260		817	0								7,789	7,486				17,357	57
58	1,236		2,730	12,752								46,474	30,407			107	132,626	58
59	441		1,087	181	242(A)		1,431					16,009	5,464			87	27,350	59
60	501	986	1,234	59	934(A)		1,055					7,669	7,266			80	21,017	60
61	165	478	700	30	256	1,133	732					4,874	2,960			360	12,309	61
62	902	8,876	869	11,818	1,817	2,194	2,857	292	50			19,932	17,120	0		2,414	93,400	62
63	532	1,895	273	121	593	1,292	2,428	367	286			5,405	4,464	+	289	1,406	21,412	63
64	869	1,841	195	120	1,126	986	1,008	502	62	5		3,979	5,531	+	135	544	19,603	64
65	1,007	2,490	945	6,287	2,121	1,287	1,435	0	3	331		4,481	7,975	+	244	1,248	33,713	65
66	783	13,018	854	23,502	3,317	4,010	3,799	1,412	2,413	0	45,730	14,437	24,325	+	537	803	181,041	66
67	1,046	17,914	2,192	73,910	6,792	1,064	6,444	2,147	2,099	1,199	51,160	22,392	28,854	+	436	373	287,541	67
68	605	2,616	262	17,501	4,603	0	5,096	1,201	2,180	0	1,784	11,875	25,166	+	468	274	91,186	68
69	1,104	7,543	2,231	42,523	7,339	0	3,447	2,016	4,836	0	55,585	50,340	56,235	+	525	375	303,867	69
TOTALS	9,451	57,657	14,626	192,304	29,140	11,886	29,732	7,937	11,929	1,535	154,259	253,008	269,078	+	2,634	8,071	1,435,870	TOTALS

(A) INCLUDES METROPOLITAN WATER DISTRICT WATER PURCHASED UNDER CONTRACT WITH SAN GABRIEL VALLEY LABOR ASSOCIATION.

(B) SAN DIMAS CANYON WATER SPREAD PRIOR TO 1965-66 IN TEMPORARY DEVELOPMENT BELOW PUDDINGSTONE DIVERSION.

(C) SAN DIMAS SPREADING DEVELOPMENT IN OPERATIVE SUBSEQUENT TO 1968-69 WATER YEAR.

(D) SAN GABRIEL RIVER FROM SANTA FE DAM TO RISING WATER. HOOK LEVEES DEVELOPED IN RIVER, 1965.

(E) SAN GABRIEL RIVER FROM WHITTIER NARROWS DAM TO FLORENCE AVENUE; (HOOK LEVEES DEVELOPED IN RIVER, 1954) AND THE SAN GABRIEL COASTAL SPREADING GROUNDS.

(F) SPREADING GROUNDS ONLY.

TABLE XXV

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

WATER CONSERVATION DIVISION

SUMMARY OF IMPORTED AND RECLAIMED WATER CONSERVED

SEPTEMBER 1969

DISTRIBUTION OF PURCHASED WATER (ACRE-FEET)

SEASON	IMPORTED				RECLAIMED			TOTAL [a]	FINANCED BY [a]			SEASON
	SAN GABRIEL SYSTEM		RIO HONDO SYSTEM (c)	SUBTOTAL	SAN GABRIEL SYSTEM LOWER	RIO HONDO SYSTEM (c)	SUBTOTAL		ZONE I	C & WBWRD [b]	USGVMWD	
	UPPER	LOWER										
1953-54	15,610	7,760	7,230	30,600				30,600	30,032			1953-54
1954-55	8,750	4,770	9,730	23,250				23,250	24,764			1954-55
1955-56	18,820	16,920	14,990	50,730				50,730	54,539			1955-56
1956-57	15,220	18,120	20,400	53,740				53,740	50,030			1956-57
1957-58	13,560	26,640	64,910	105,110				105,110	105,112			1957-58
1958-59	5,990	24,340	24,070	54,400				54,400	54,420			1958-59
1959-60	10,960	32,230	37,450	80,640				80,640	80,926			1959-60
1960-61	25,740	51,090	70,170	147,000				147,000	80,807	66,374		1960-61
1961-62	28,430	77,180	102,780	208,390	0	1,180	1,180	209,570	39,492	169,814		1961-62
1962-63	11,960	38,800	29,420	80,180	0	12,400	12,400	92,580	4,780	88,252		1962-63
1963-64	18,820	40,150	45,920	104,890	4,150	9,110	13,260	118,150	0	118,157		1963-64
1964-65	42,100	70,000	66,510	178,610	4,870	9,660	14,530	193,140	75,456	99,196	12,400	1964-65
1965-66	33,740	38,630 [d]	62,740	135,110	3,130	11,930	15,060	150,170	67,813	68,903	19,100 [d]	1965-66
1966-67	46,570	20,810	46,320	113,700	2,110	14,120	16,230	129,930	74,060	26,404	29,871	1966-67
1967-68	38,650	12,400	66,500	117,550	1,980	16,300	18,280	135,830	66,592	47,073	22,170	1967-68
1968-69	18,850	4,900	12,440	36,190	7,770	6,110	13,880	50,070	12,529	19,128	18,567	1968-69
TOTALS	353,770	484,740	681,580	1,520,090	24,010	80,810	104,820	1,624,910	821,352	703,301	102,108	TOTALS

(a) DIFFERENCES BETWEEN WATER DISTRIBUTED AND WATER FINANCED DUE TO THE FOLLOWING:

1. WATER TEMPORARILY HELD IN STORAGE AT PUDDINGSTONE RESERVOIR FROM ONE WATER YEAR TO THE NEXT.
2. LOSSES IN PUDDINGSTONE RESERVOIR.
3. DISTRICT RECORDS ARE BASED ON 12 MIDNIGHT READINGS, WHEREAS AMOUNTS SHOWN UNDER FINANCING COLUMN ARE BASED ON METER READINGS TAKEN DURING NORMAL WORKING HOURS.

(b) ALL RECLAIMED WATER PURCHASED BY CENTRAL AND WEST BASIN WATER REPLENISHMENT DISTRICT.

(c) RIO HONDO SPREADING GROUNDS AND WHITTIER NARROWS RESERVOIR.

(d) MAKE-UP WATER PURCHASED BY THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT AND SPREAD IN THE LOWER SAN GABRIEL SYSTEM.

TABLE XXVI

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

WATER CONSERVATION DIVISION

SUMMARY OF DATA ON SPREADING GROUNDS

NOT OWNED BY THE DISTRICT

SEPTEMBER 1969

GROUNDS	TYPE	SEASON FIRST USED	AREA IN ACRES		CAPACITIES				LOCATION	SOURCE OF WATER	REMARKS
			GROSS	WETTED	CHANNEL** CFS	INTAKE CFS	STORAGE A.F.	PERC.* CFS			
GROUNDS IN WHICH DISTRICT DOES CONSTRUCTION, MAINTENANCE AND SOME OPERATIONS:											
SIERRA MADRE	SHALLOW BASINS	ABOUT 1933	22	9	-	25	47	18	CITY OF SIERRA MADRE, SOUTH SIDE OF GRANDVIEW AVENUE, ONE HALF MILE WEST OF SANTA ANITA AVENUE.	LITTLE SANTA ANITA CREEK AND STREET RUNOFF ONLY PRIOR TO 1951-52. STARTING IN 1951-52 ALSO CONTROLLED FLOWS FROM SANTA ANITA DAM.	NO RECORDS OF WATER SPREAD PRIOR TO 1951-52. GROUNDS REBUILT IN 1951. ULTIMATE CAPACITY ESTIMATED 25 CFS. THREE BASINS ADDED IN SUMMER OF 1959.
SAN GABRIEL CANYON	DITCHES AND CHECKS	ABOUT 1917	165	-	-	-	-	100	EASTERLY SIDE OF SAN GABRIEL RIVER, BELOW MOUTH OF CANYON, NORTH OF THE CITY OF AZUSA.	SAN GABRIEL RIVER, CONTROLLED RELEASES FROM COGSWELL DAM, SAN GABRIEL DAM AND MORRIS DAM.	DISTRICT DELIVERS WATER, DOES HYDROGRAPHIC WORK AND SOME CONSTRUCTION. AREA REDUCED PER 1964 AGREEMENT TO ALLOW DEVELOPMENT OF AREA BY ROCK AND GRAVEL COMPANY.
FISH CREEK	SHALLOW BASINS	ABOUT 1917	6±	4	-	-	-	7	WESTERLY SIDE OF SAN GABRIEL RIVER BELOW MOUTH OF FISH CANYON AND NORTH OF THE CITY OF AZUSA.	SAN GABRIEL RIVER, CONTROLLED RELEASES FROM COGSWELL DAM, SAN GABRIEL DAM, AND MORRIS DAM, VIA DUARTE DITCH.	DISTRICT DELIVERS WATER, DOES HYDROGRAPHIC WORK AND SOME CONSTRUCTION. SOME WATER ALSO PERCOLATES IN SAN GABRIEL RIVER IN VICINITY OF SPREADING GROUNDS AND IN BRUSH LAND WHERE IRRIGATION WASTE LINES DISCHARGE, NO SEPARATE RECORDS KEPT PRIOR TO 1926-27.
THOMPSON CREEK	DITCHES CHECKS AND DEEP BASIN	ABOUT 1928	53	37	-	70	-	37	SOUTHERLY FROM, AND ADJACENT TO THOMPSON CREEK DAM, EAST SIDE OF CREEK.	COBAL, WILLIAMS, PALMER, AND PADUA CREEKS, ALSO THOMPSON CREEK, WHEN RESERVOIR ABOVE ELEV. 1625.	HELD UNDER EASEMENT BY THE DISTRICT, OPERATED BY POMONA VALLEY PROTECTIVE ASSOCIATION. IN ADDITION TO THE 53 ACRES, SOME AREA WITHIN THOMPSON CREEK RESERVOIR IS USED TO SPREAD STORM FLOWS. WATER SPREAD IN AREA SINCE ABOUT 1918.
SAN ANTONIO	DITCHES CHECKS AND SHALLOW BASINS	1921-22	598	300	8,000	900	-	300	BOTH SIDES OF SAN ANTONIO CREEK, FROM TWO AND ONE HALF MILES ABOVE BASE LINE SOUTHWESTERLY TO BASE LINE.	CONTROLLED RELEASES FROM THE SAN ANTONIO FLOOD CONTROL DAM.	HELD UNDER EASEMENT BY THE DISTRICT, OPERATED BY POMONA VALLEY PROTECTIVE ASSOCIATION, WEST SIDE OF CHANNEL 500 ACRES, EAST SIDE OF CHANNEL 98 ACRES. IN ADDITION THERE ARE 207 ACRES EAST OF CHANNEL IN SAN BERNARDINO COUNTY. WATER SPREAD IN VICINITY ON AND OFF AS EARLY AS ABOUT 1896.
TOTALS			844	-	-	-	-	462			
GROUNDS CONTROLLED BY OTHERS, THE DISTRICT COOPERATING:											
CITY OF POMONA	DITCHES CHECKS AND DEEP BASINS	(SEE REMARKS)	10	8	-	-	-	-	NORTH OF CLAREMONT, ONE HALF MILE NORTH OF FOOTHILL BOULEVARD AND 1/8 MILE WEST OF MILLS AVENUE.	SAN ANTONIO CREEK WATER DELIVERED THROUGH LOOP MERSERVE CANYON WATER CO'S. PIPE LINE. ALSO SOME LOCAL RUNOFF.	WATER SPREAD IN VICINITY ON AND OFF SINCE ABOUT 1897. GROUND ACQUIRED BY CITY OF POMONA, OCTOBER 1926. NO RECORD OF WATER SPREAD PRIOR TO 1949-50. DEEP EASIN COMPLETED IN 1957.
L. A. CITY DEPT. OF WATER & POWER TUJUNGA	SHALLOW BASINS	1931-32	188	130	22,000	400	-	390	SAN FERNANDO VALLEY, EAST SIDE OF TUJUNGA WASH AT ROSCOE BOULEVARD.	LOS ANGELES CITY'S OWENS VALLEY AQUEDUCT AND CONTROLLED RELEASES FROM HANSEN DAM.	PRIOR TO 1938 FLOOD, USED 80 ACRES NET, TUJUNGA CHANNEL ON WESTERLY SIDE OF GROUNDS PAVED IN 1950.
HEADWORKS	SHALLOW	1938-39	48	27	57,000	-	40	40	SAN FERNANDO VALLEY, SOUTH OF LOS ANGELES RIVER, ABOVE MARIPOSA STREET.	LOS ANGELES RIVER, PARTIALLY CONTROLLED BY VARIOUS DAMS. RELEASE OF OWENS VALLEY WATER FROM CHATSWORTH RESERVOIR, GROUND WATER FROM WELLS IN THE WEST END OF SAN FERNANDO VALLEY.	CRYSTAL SPRINGS INFILTRATION AREA, NOT REGULAR SPREADING GROUNDS, WATER PUMPED OUT FROM COLLECTING GALLERIES UNDER AREA. IN OCTOBER 1958 A 130-FOOT COLLAPSIBLE RUBBER DAM WAS INSTALLED ACROSS LOS ANGELES RIVER.
TOTALS			246	165	-	-	-	-			

*THE CAPACITIES LISTED ARE BASED ON INFILTRATION RATES WHICH MAY BE EXPECTED TO PERSIST FOR AT LEAST FIVE DAYS BUT ARE NOT VALID FOR SUSTAINED SPREADING OPERATIONS.

**DESIGN CAPACITY OF MAIN CONCRETE CHANNEL.

TABLE XXVII

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF WATER SPREAD IN GROUNDS
NOT OWNED BY THE DISTRICT
SEPTEMBER 1969

RECORD OF WATER SPREAD
ACRE FEET

SEASON	GROUNDS IN WHICH DISTRICT DOES CONSTRUCTION MAINTENANCE AND SOME OPERATIONS						GROUNDS CONTROLLED BY OTHERS THE DISTRICT COOPERATING			TOTAL	SEASON
	CITY OF SIERRA MADRE		SAN GABRIEL SPREADING CORPORATION		THOMPSON CREEK (B)	SAN ANTONIO (B)	CITY OF POMONA	L.A. CITY DEPT. OF WATER & POWER			
	SANTA ANITA WATER	LOCAL WATER	CANYON BASIN (F)	MAIN BASIN				TUJUNGA	HEADWORKS		
1919–20			7,974							7,974	1919–20
21			10,082							10,082	21
22			6,132			(C)				6,132	22
23			12,408			(C)				12,408	23
24			5,069			(C)				5,069	24
25			2,878			(C)				2,878	25
26			8,443			(C)				8,443	26
27			18,560	2,707		8,090	(C)			29,357	27
28			17,537	3,270	(C)	(C)	(C)			20,807	28
29			15,615	3,501	(C)	(C)	(C)			19,116	29
30			16,607	5,898	(C)	(C)	(C)			22,505	30
31			8,360	5,827	(C)	201	(C)			14,388	31
32			25,328	12,106	(C)	7,801	(C)	20,338		65,573	32
33			13,386	6,620	(C)	111	(C)	26,873		46,990	33
34		(C)	12,401	4,506	(C)	630	(C)	20,795		38,332	34
35		(C)	34,315	17,692	(C)	6,834	(C)	24,775		83,616	35
36		(C)	17,997	6,975	(C)	1,652	(C)	19,310		45,934	36
37		(C)	33,814	20,297	(C)	22,552	(C)	8,736		85,399	37
38		(C)	31,627	13,134	(C)	15,000	(C)	5,732		65,493	38
39		(C)	17,815	6,194	(C)	1,433	(C)	12,258	(D)	37,700	39
40		(C)	19,304	8,544	0	2,670	(C)	3,024	(D)	33,542	40
41		(C)	45,618	13,298	563	28,093	(C)	3,446	(D)	91,018	41
42		(C)	21,392	8,241	0	83	(C)	11,290	(D)	41,006	42
43		(C)	24,502	7,702	505	26,000	(C)	12,134	(D)	70,843	43
44		(C)	31,130	9,820	37	10,270	(C)	3,192	(D)	54,449	44
45		(C)	34,681	14,467	18	4,957	(C)	0	17,518	71,641	45
46		(C)	23,351	12,745	5	3,271	(C)	0	21,141	60,513	46
47		(C)	23,716	8,936	0	5,801	(C)	1,686	18,738	58,877	47
48		(C)	4,796	2,218	0	6	(C)	0	19,016	26,036	48
49		(C)	2,874	1,343	0	0	(C)	0	6,451	10,668	49
50		(C)	9,125	2,590	0	55	450±	762	7,691	20,673	50
51		(C)	1,378	622	0	3	0	2,355	4,917	9,275	51
52	1,547	384	27,847	8,361	163	10,467	952	7,269	1,524	58,514	52
53	257	5	15,765	5,705	0	1,011	357	0	7,424	30,524	53
54	470	113	18,021	4,960	0	3,150	916	0	6,648	34,278	54
55	288	50	20,328	6,096	0	0	838	0	10,867	38,467	55
56	349	80	19,135	8,406	0	927	660	0	6,553	36,110	56
57	295	36	16,225	6,199	0	0	1,341	0	4,784	28,880	57
58	3,897	313	47,419	7,616	164	12,881	3,026	0	6,278	81,594	58
59	343	14	24,558	6,176(A)	0	0	2,820	0	9,045	42,956	59
60	43	2	6,111	(E)	0	0	963	0	8,040	15,159	60
61	41	2	2,534		0	0	12	0	6,121	8,710	61
62	1,313	219	34,008		27	2,525	234	6,894	10,642	55,862	62
63	874	21	25,345		0	0	73	0	10,279	36,592	63
64	427	54	12,785		0	0	70	0	11,312	24,648	64
65	905	99	17,463		0	+	71	0	12,881	31,419	65
66	4,075	386	22,981		0	13,056	508	4,537	11,783	57,326	66
67	4,236	767	34,415		45	10,727	856	8,331	8,870	68,247	67
68	1,723	107	26,955		21	549	407	0	11,860	41,422	68
69	1,871	2,024	17,733		850	29,960	340	16,728	6,698	76,204	69
TOTALS	22,954	4,676	947,843	252,772	2,398	230,766	14,894	220,465	247,081	1,943,849	TOTALS

(A) BEGINNING IN 1958-59 THIS EXCLUDES CANYON WATER SPREAD AT BEN LOMOND.
(B) OPERATED BY POMONA VALLEY PROTECTIVE ASSOCIATION.
(C) WATER SPREAD, NO RECORDS KEPT.
(D) DAILY MEASUREMENTS MADE. TOTAL VOLUME NOT COMPUTED.
(E) EAST SIDE WATER COMMITTEE DISCONTINUED KEEPING RECORDS AS OF 1959-60 SEASON.
(F) THE SAN GABRIEL SPREADING CORPORATION WAS DISSOLVED IN THE SPRING OF 1965. THE CANYON BASIN SPREADING GROUNDS WERE THEN OPERATED BY THE COMMITTEE OF NINE UNTIL NOVEMBER 1969, AT WHICH TIME THE FLOOD CONTROL DISTRICT TOOK OVER OPERATIONS.

TABLE XXVIII

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF WATER INJECTED AT BARRIER PROJECTS
SEPTEMBER 1969

	WEST COAST BASIN BARRIER PROJECT					ALAMITOS BARRIER PROJECT			DOMINGUEZ GAP** BARRIER PROJECT	
WATER YEAR	STATE APPROPRIATION	C & WBWRD	WBWA	ZONE II	TOTAL WCBBP	C & WBWRD	OCWD	TOTAL ABP	C & WBWRD	TOTAL ALL PROJECTS
1952-53	1,141*				1,141					1,141
1953-54	761*		1,673	856	3,290					3,290
1954-55				2,744	2,744					2,744
1955-56				2,840	2,840					2,840
1956-57				3,592	3,592					3,592
1957-58				4,331	4,331					4,331
1958-59				3,695	3,695					3,695
1959-60				3,804	3,804					3,804
1960-61		2,944		1,532	4,476					4,476
1961-62		4,512			4,512					4,512
1962-63		4,194			4,194					4,194
1963-64		10,450			10,450					10,450
1964-65		33,015			33,015	2,758	198	2,956		35,971
1965-66		44,388			44,388	3,368	347	3,715		48,103
1966-67		32,658		10,402	43,060	3,385	485	3,880		46,940
1967-68		6,127		33,456	39,583	4,214	735	4,949		44,532
1968-69		3,981		32,435	36,416	4,310	945	5,255	0	41,671
TOTAL	1,902	142,269	1,673	99,687	245,531	18,045	2,710	20,755	0	266,286

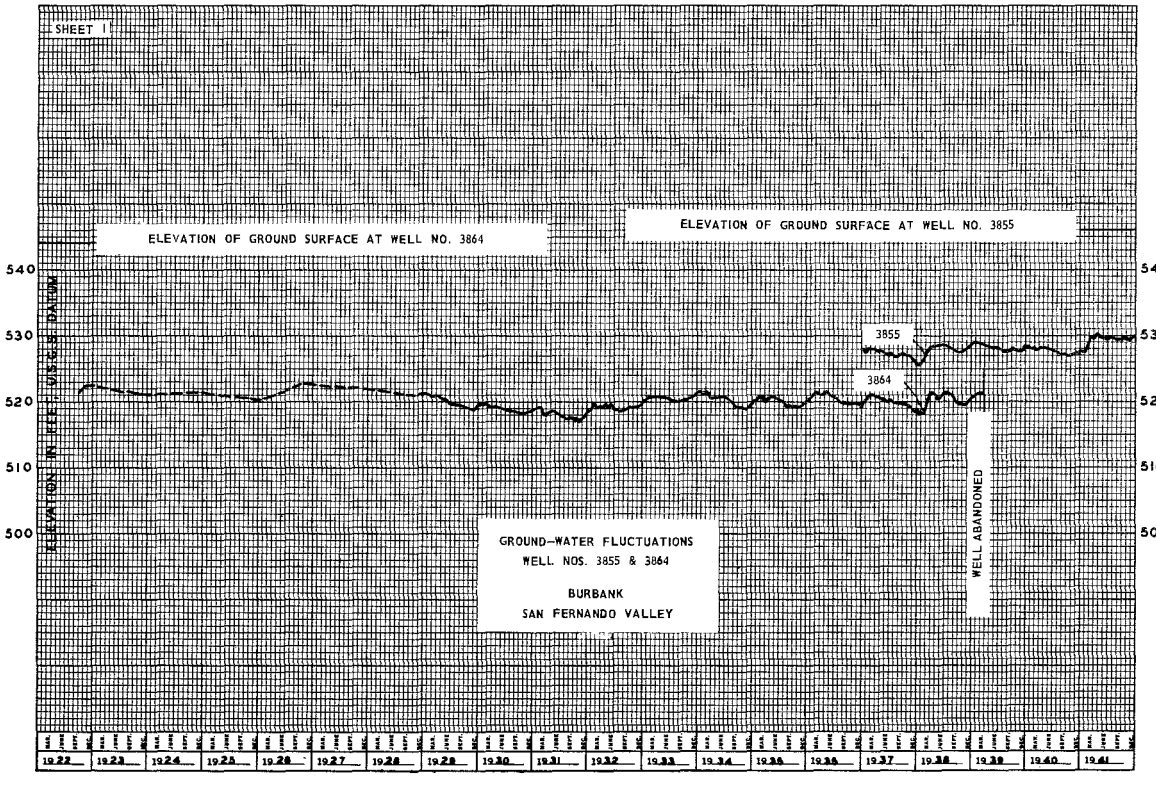
*Funds provided for West Coast Basin Experimental Project by State Water Resources Board.
**Under construction; anticipate injection operations in 1970.

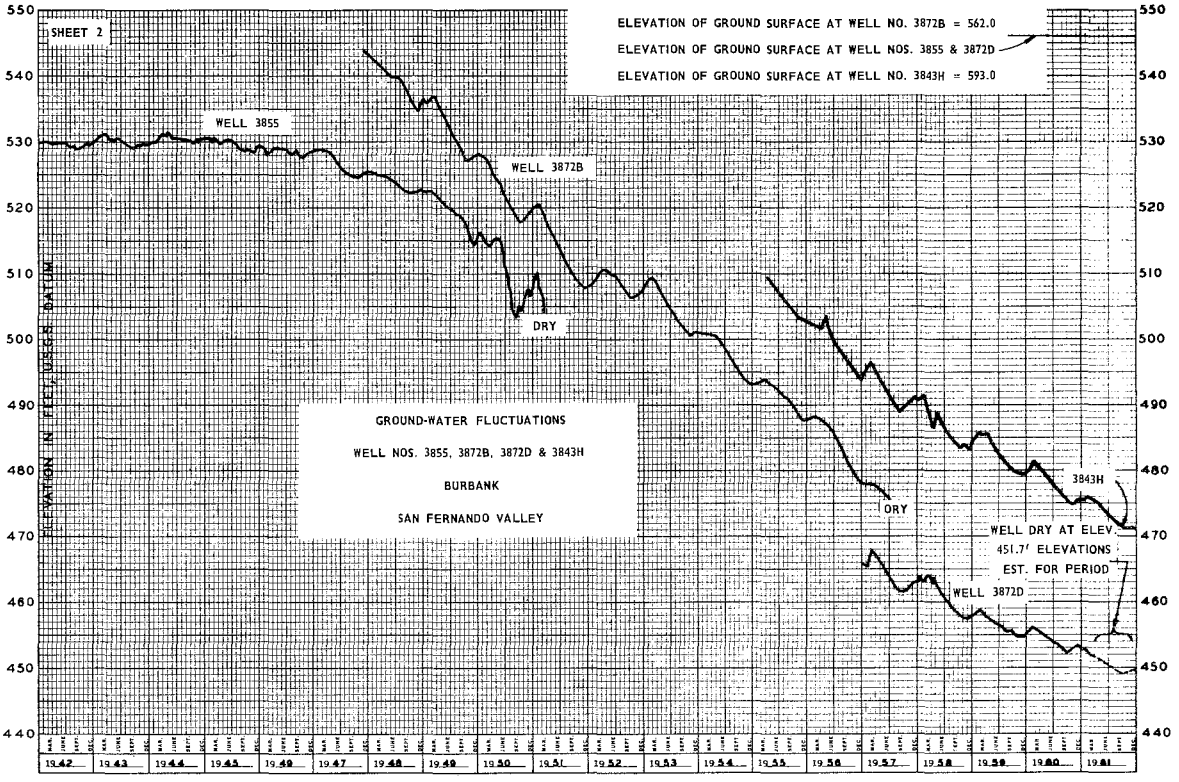
KERN COUNTY
LOS ANGELES COUNTY
VENTURA COUNTY
SAN BERNARDINO COUNTY
ANTELOPE VALLEY
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
PACIFIC OCEAN
SAN PEDRO BAY
PALOS VERDES HILLS
LOS ANGELES
Glendale
PASADENA
Santa Monica
Manhattan Beach
Redondo Beach
Torrance
Long Beach
Whittier
Pomona
Palmdale
Lancaster
Fairmont
Neenach
Del Sur
Rosamond
Acton
Saugus
Newhall
Van Nuys
Burbank
Hollywood
Beverly Hills
Inglewood
El Segundo
Baldwin Park
Covina
Monrovia
Arcadia
Altadena
Mandeville
Little Rock
MUROC ARMY AIRFIELD MILITARY RESERVATION
ROSAMOND DRY LAKE
BUCKHORN DRY LAKE
SOLEDAD MOUNTAIN
PORTAL RIDGE
SANDMILL MOUNTAIN
LIEBRE MOUNTAIN
CHACHARI MOUNTAINS
PINYON RIDGE
DOMINGUEZ HILLS
BALDWIN HILLS
PALMDALE RESERVOIR
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SCALE
LEGEND
GROUND WATER BASINS
SPREADING GROUNDS DISTRICT OWNED & OPERATED
SPREADING GROUNDS NON-DISTRICT
PERCOLATING AREAS RESERVOIRS
PERCOLATING AREAS STREAM BEDS
G.W. BARRIER FACILITIES
REVISIONS
MARK DATE DESCRIPTION
MAY 1970 GENERAL
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MAP SHOWING LOCATION OF
KEY WELLS
GROUND WATER BASINS
AND
FACILITIES
DRAWN RMK
CHECKED APK
PRESENTED Charles C. Geyer
SUBMITTED C.J. Reinhard
APPROVED Tom H. Stauffer
DIVISION ENGINEER WATER CONSERVATION
SCALE GRAPHIC
DATE AUG. 1968
NO. 2-H200
MAP X

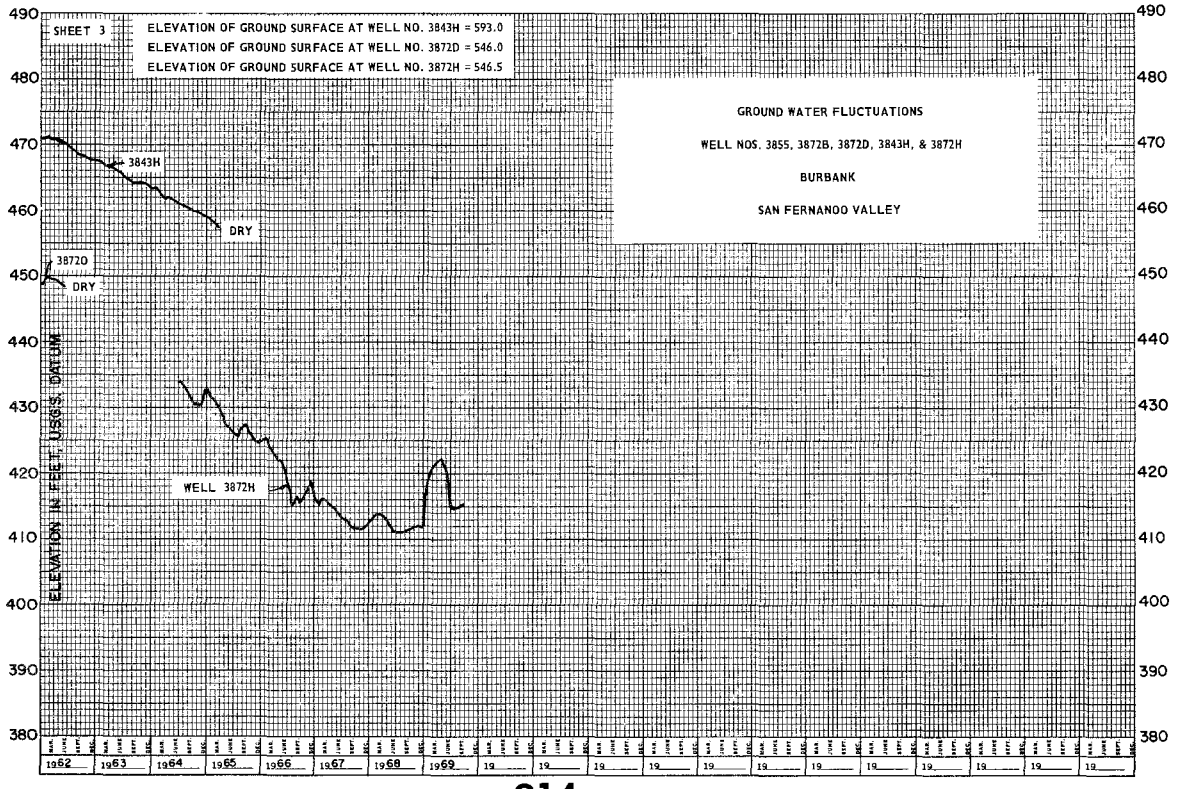
WELL HYDROGRAPHS INCLUDED IN THIS REPORT

WELL NO.*	GROUND-WATER BASIN	APPROXIMATE LOCATION	PAGE NO.
3872H	MAIN SAN FERNANDO BASIN	CLARK AVENUE AND GRIFFITH PARK DRIVE, BURBANK	
4709	MAIN SAN FERNANDO BASIN	SHERMAN WAY AND DEERING AVENUE, CANOGA PARK	
4057H	RAYMOND BASIN	LOS ROBLES AND GLENARM STREETS, PASADENA	
2955X	MAIN SAN GABRIEL	TYLER AVENUE AND CENTRAL AVENUE, SOUTH EL MONTE	
3030F	MAIN SAN GABRIEL	600 FEET NORTHWEST OF THE INTERSECTION OF LOS ANGELES STREET AND MAINE AVENUE, BALDWIN PARK	
4285A	UPPER SAN GABRIEL CANYON	2,000 FEET NORTHWEST OF THE INTERSECTION OF SIERRA MADRE AVENUE AND AZUSA AVENUE, AZUSA	
4506A	UPPER CLAREMONT HEIGHTS	1,500 FEET NORTHEAST OF THE INTERSECTION OF POMELLO DRIVE AND PADUA AVENUE, CLAREMONT	
3251E	POMONA BASIN	2,200 FEET NORTH OF THE INTERSECTION OF SAN BERNARDINO FREEWAY AND TOWNE AVENUE, POMONA	
1601T	CENTRAL BASIN	1,000 FEET SOUTH OF THE INTERSECTION OF WASHINGTON BOULEVARD AND ROSEMEAD BOULEVARD, MONTEBELLO	
906D	CENTRAL BASIN	1,300 FEET NORTHWEST OF THE INTERSECTION OF LONG BEACH BOULEVARD AND SAN ANTONIO DRIVE, LONG BEACH	
460K	CENTRAL BASIN	2,600 FEET NORTHEAST OF THE INTERSECTION OF LAKEWOOD BOULEVARD AND PACIFIC COAST HIGHWAY, LONG BEACH	
1346D	WEST BASIN	1,900 FEET WEST OF THE INTERSECTION OF IMPERIAL HIGHWAY AND HAWTHORNE BOULEVARD, HAWTHORNE	
7048A	SANTA CLARA RIVER VALLEY	SOUTHEAST OF THE INTERSECTION OF NEWHALL AVENUE AND HENRY MAYO DRIVE, SAUGUS	
9962C	LANCASTER	1,500 FEET NORTHWEST OF THE INTERSECTION OF SIERRA HIGHWAY AND AVENUE K, LANCASTER	

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




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


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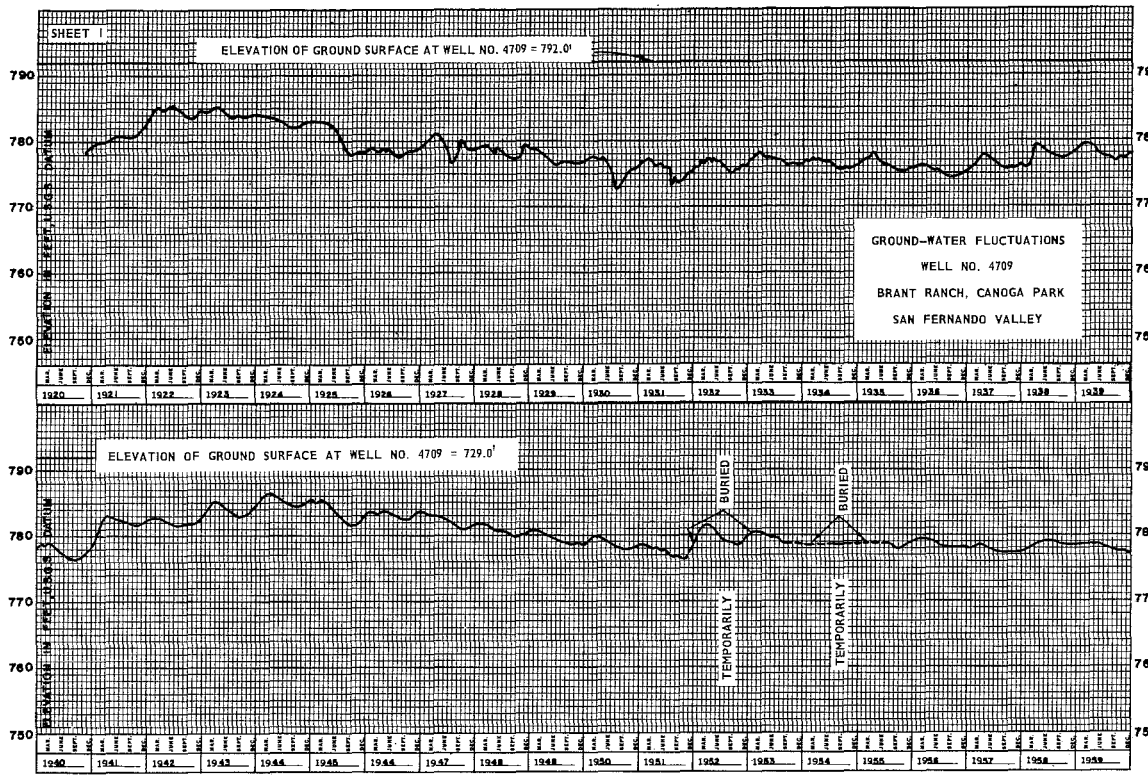
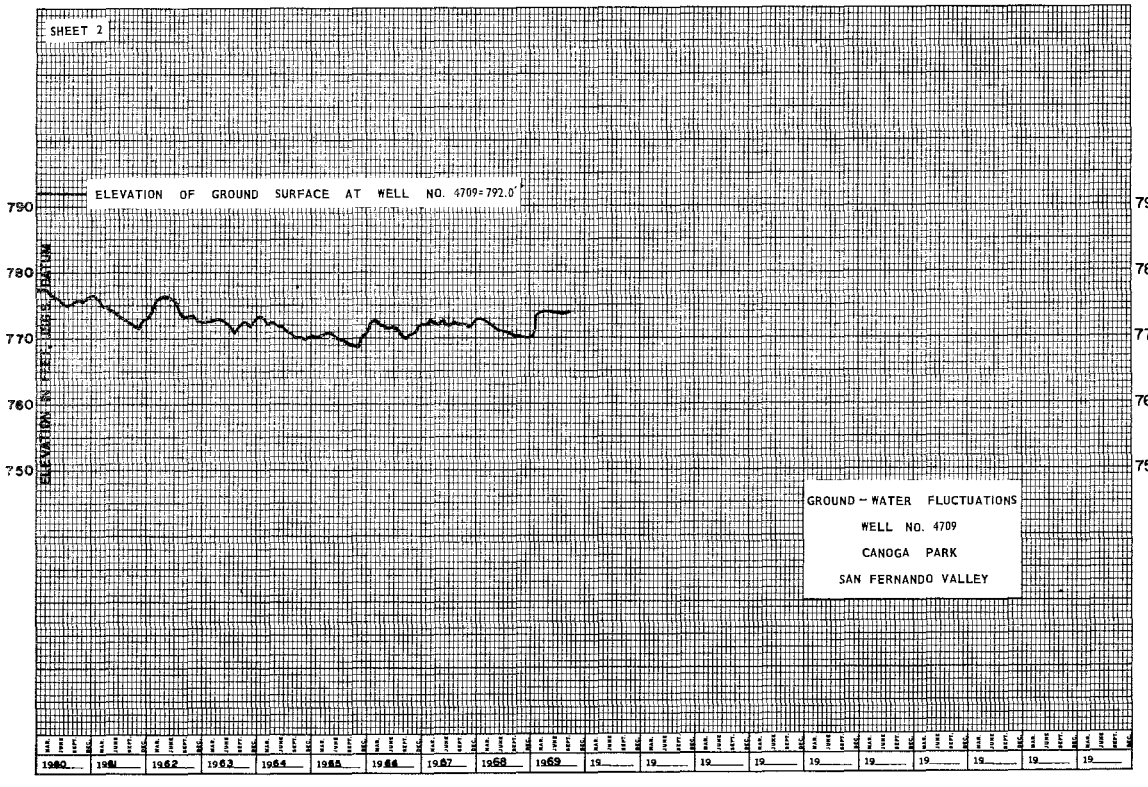
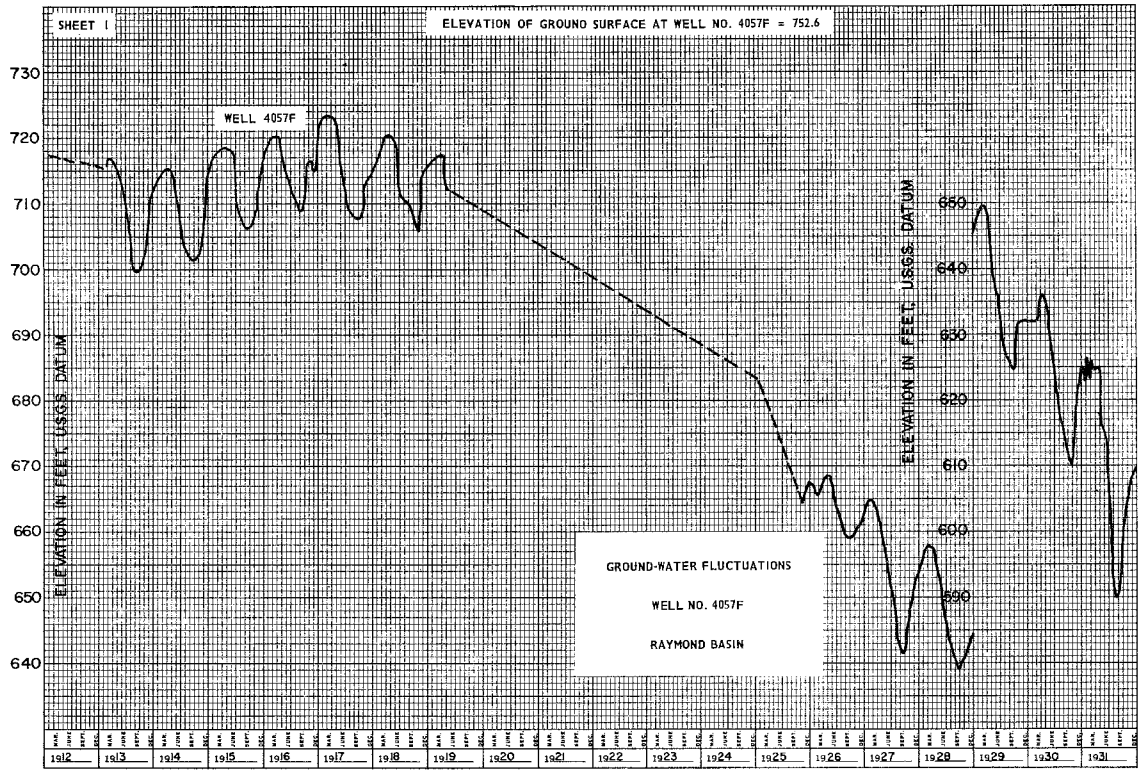
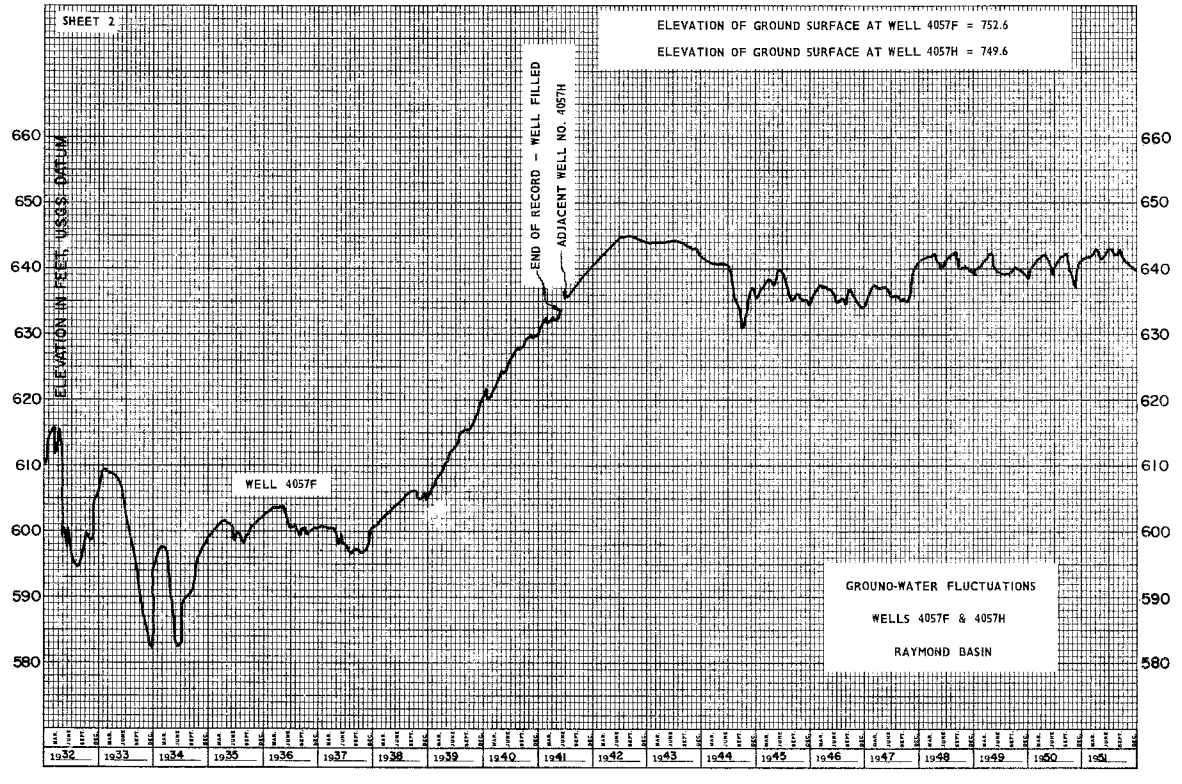
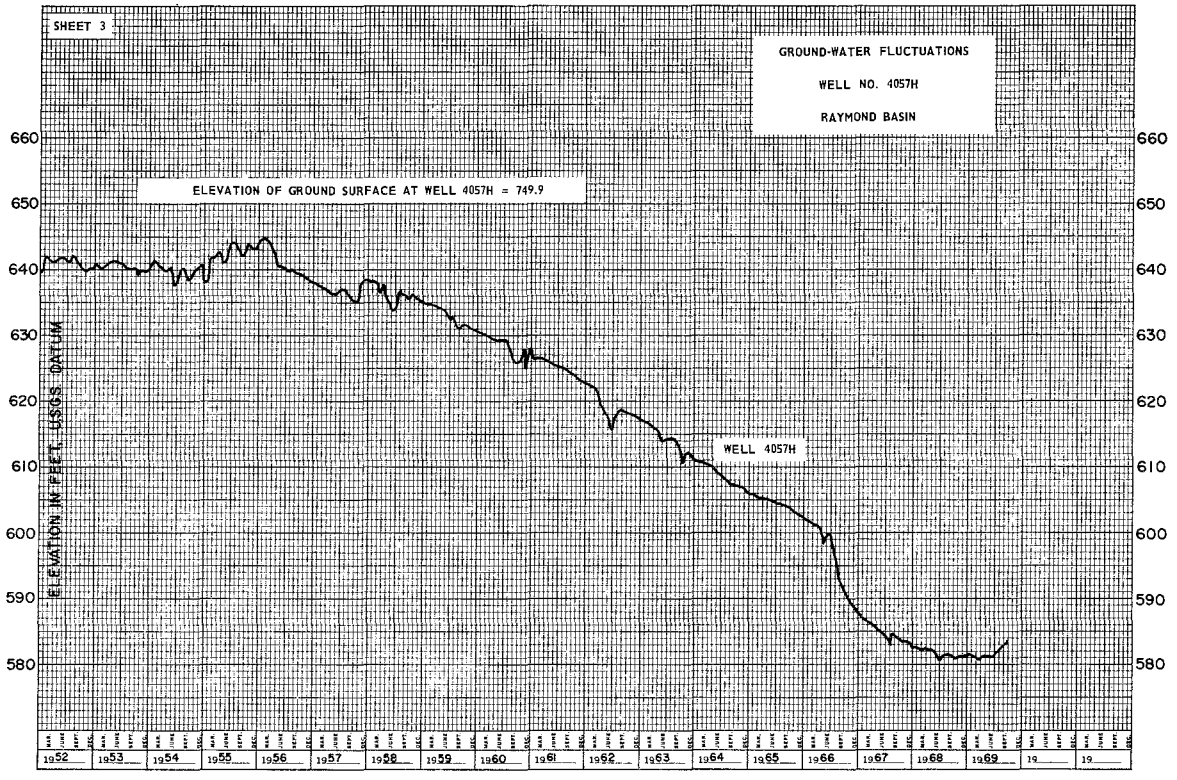
19
19
19

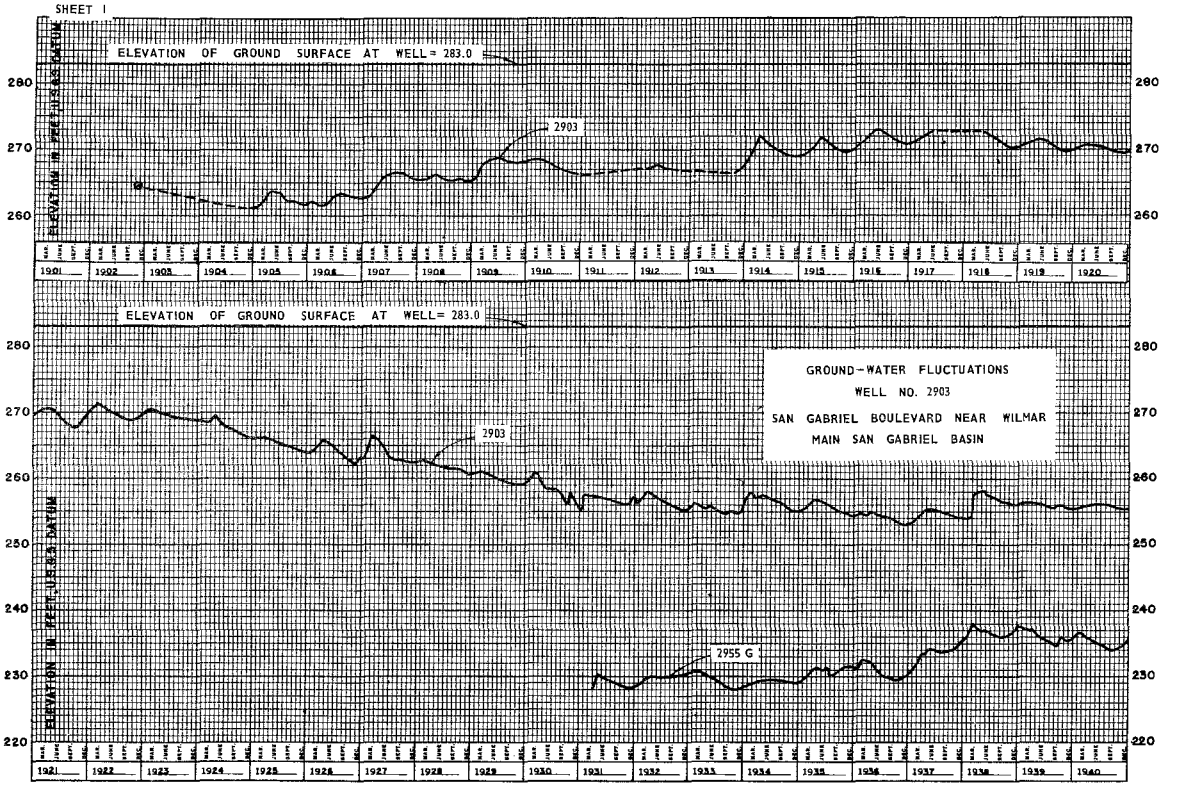

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 4709 = 792.0'
ELEVATION IN FEET, USGS DATUM
790
780
770
760
750
GROUND-WATER FLUCTUATIONS
WELL NO. 4709
BRANT RANCH, CANOGA PARK
SAN FERNANDO VALLEY
1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939
ELEVATION OF GROUND SURFACE AT WELL NO. 4709 = 729.0'
TEMPORARILY BURIED
TEMPORARILY BURIED
1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959

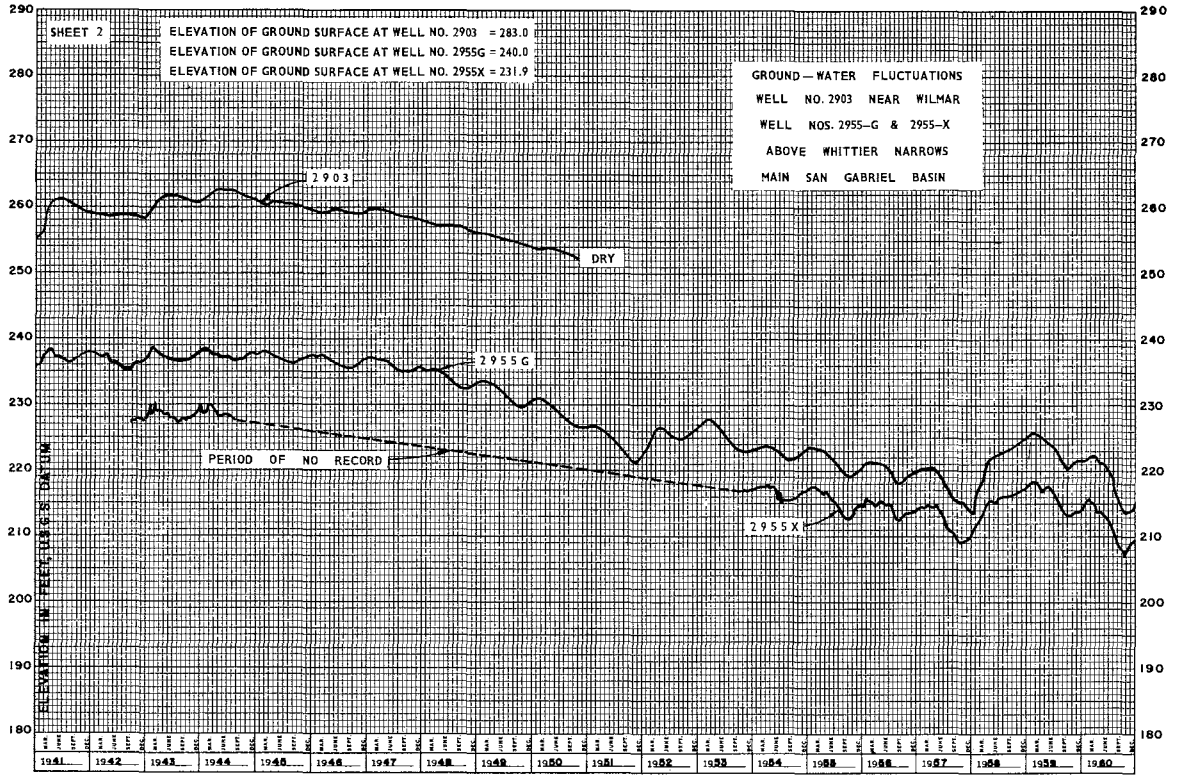

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL NO. 4709=792.0'
ELEVATION IN FEET, USGS DATUM
790
780
770
760
750
GROUND-WATER FLUCTUATIONS
WELL NO. 4709
CANOGA PARK
SAN FERNANDO VALLEY
1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 19 19 19 19 19 19 19 19 19 19

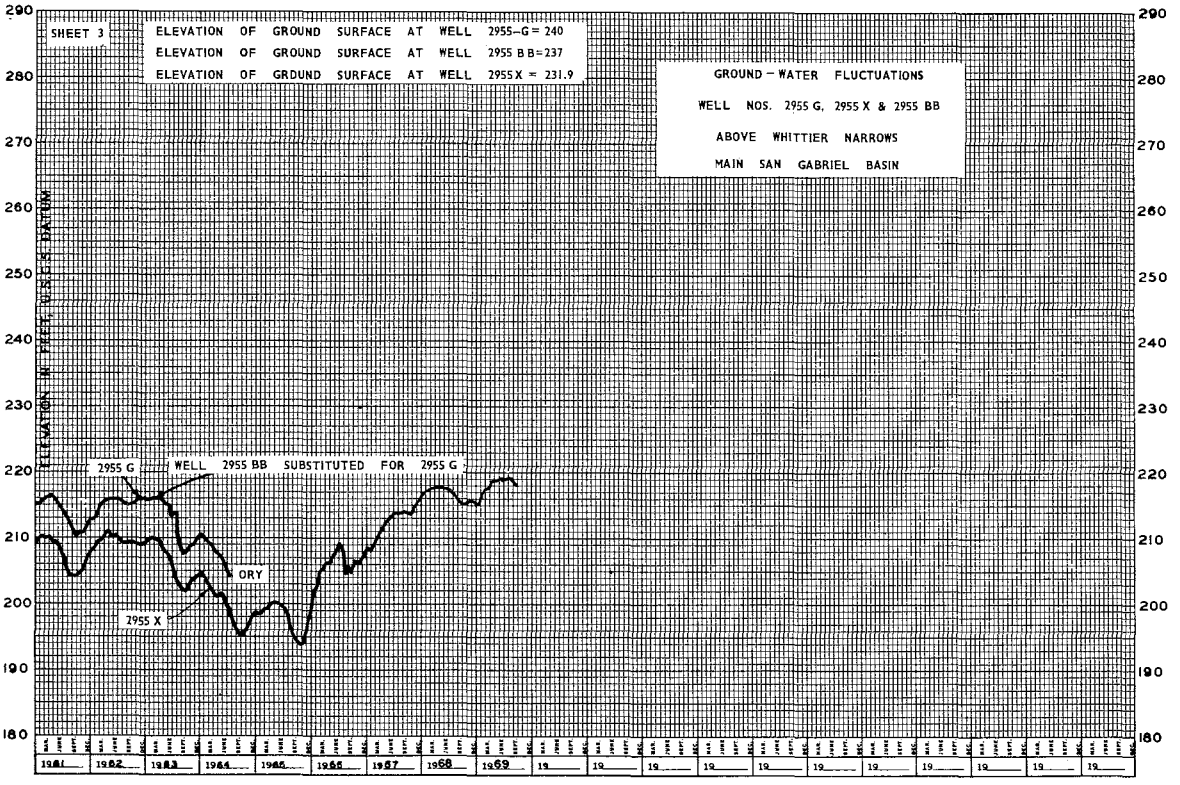

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 4057F = 752.6
WELL 4057F
ELEVATION IN FEET, USGS DATUM
730
720
710
700
690
680
670
660
650
640
650
640
630
620
610
600
590
GROUND-WATER FLUCTUATIONS
WELL NO. 4057F
RAYMOND BASIN
1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926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

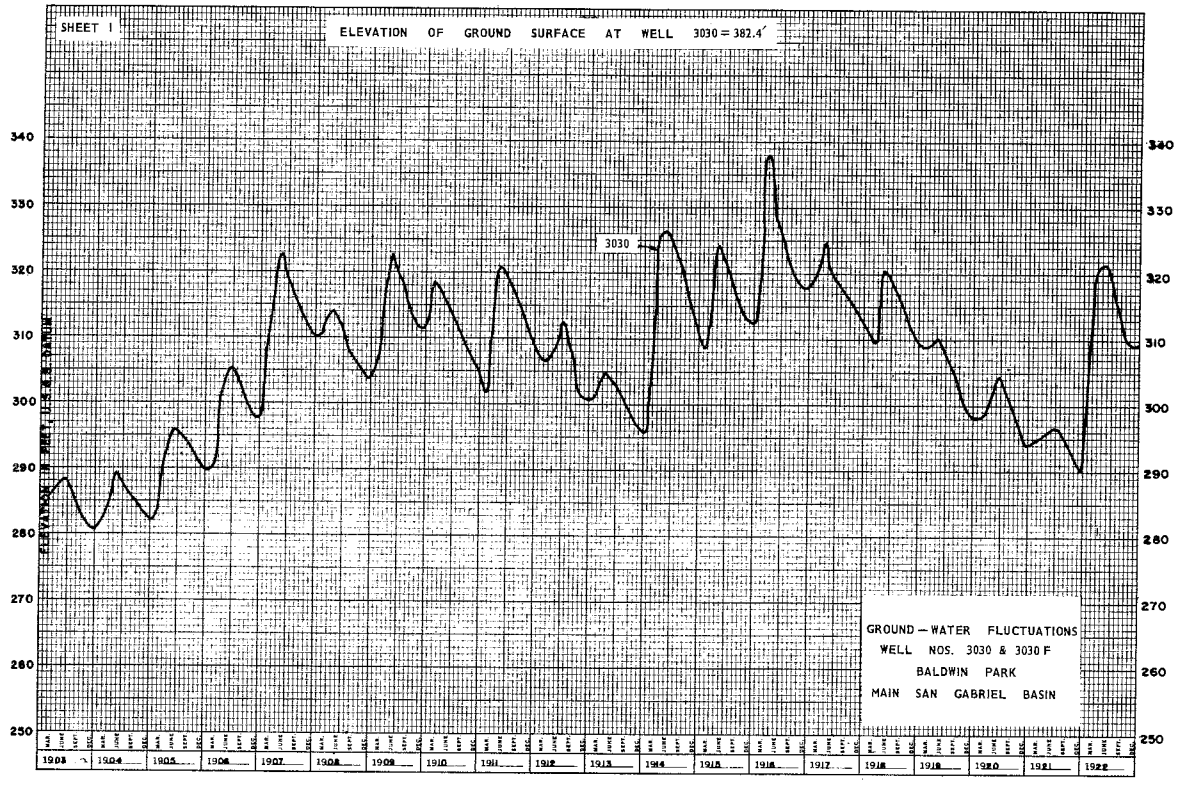

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL 4057F = 752.6
ELEVATION OF GROUND SURFACE AT WELL 4057H = 749.6
END OF RECORD - WELL FILLED
ADJACENT WELL NO. 4057H
WELL 4057F
ELEVATION IN FEET, USGS DATUM
660
650
640
630
620
610
600
590
580
GROUND-WATER FLUCTUATIONS
WELLS 4057F & 4057H
RAYMOND BASIN
1932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

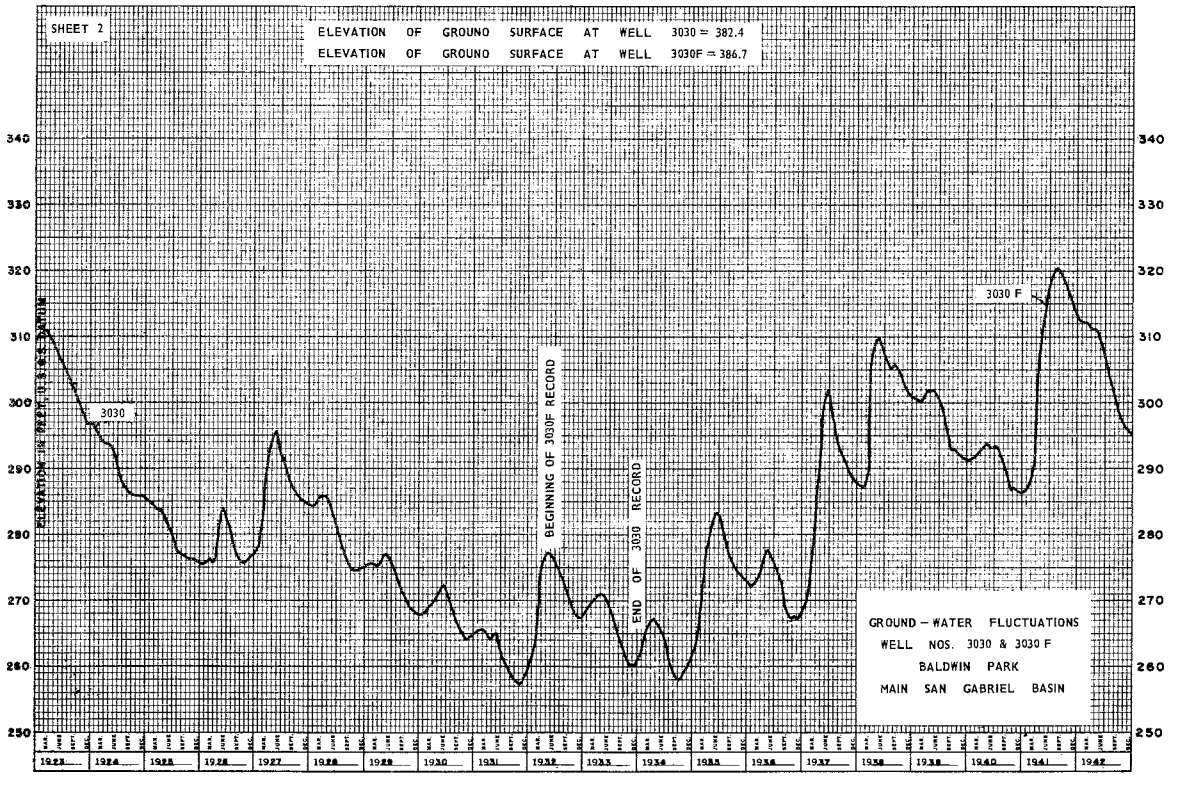

SHEET 3
GROUND-WATER FLUCTUATIONS
WELL NO. 4057H
RAYMOND BASIN
ELEVATION OF GROUND SURFACE AT WELL 4057H = 749.9
WELL 4057H
ELEVATION IN FEET, USGS DATUM
660
650
640
630
620
610
600
590
580
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969

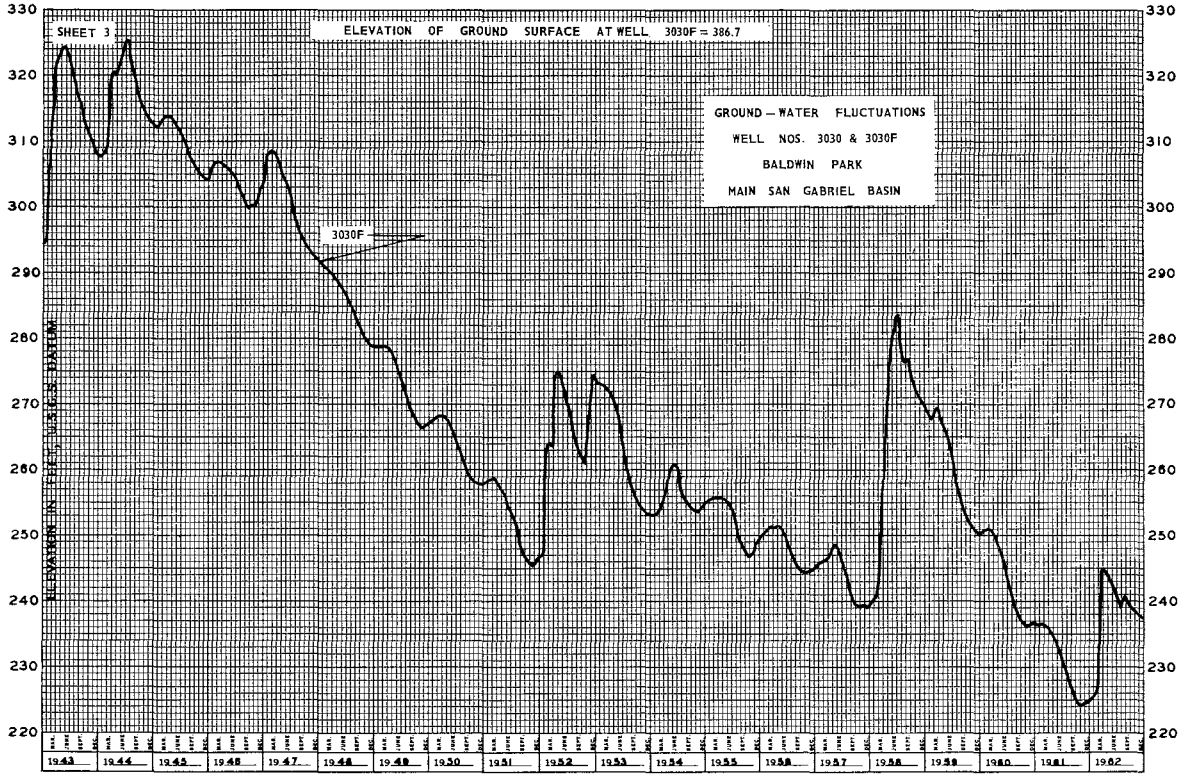

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL= 283.0
2903
ELEVATION IN FEET, USGS DATUM
280
270
260
1901
1902
1903
1904
1905
1906
1907
1908
1909
1910
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
ELEVATION OF GROUND SURFACE AT WELL= 283.0
GROUND-WATER FLUCTUATIONS
WELL NO. 2903
SAN GABRIEL BOULEVARD NEAR WILMAR
MAIN SAN GABRIEL BASIN
2903
2955 G
ELEVATION IN FEET, USGS DATUM
280
270
260
250
240
230
220
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940

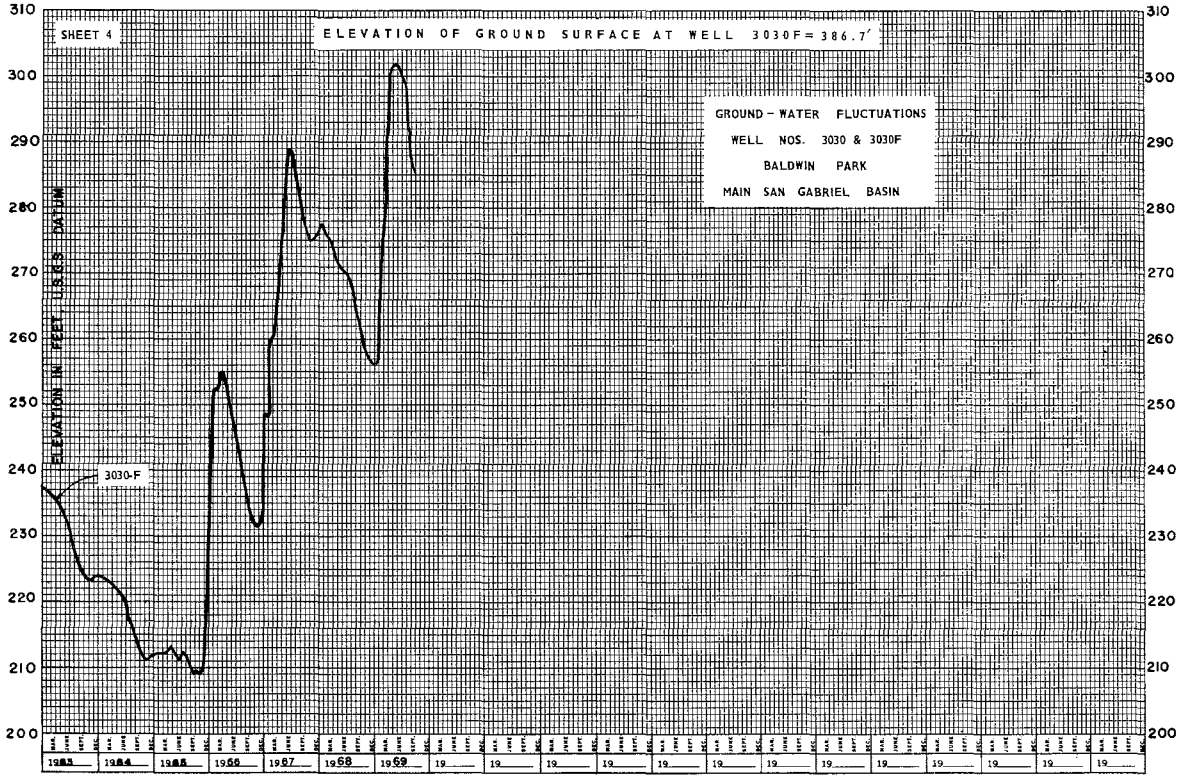

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL NO. 2903 = 283.0
ELEVATION OF GROUND SURFACE AT WELL NO. 2955G = 240.0
ELEVATION OF GROUND SURFACE AT WELL NO. 2955X = 231.9
GROUND — WATER FLUCTUATIONS
WELL NO. 2903 NEAR WILMAR
WELL NOS. 2955–G & 2955–X
ABOVE WHITTIER NARROWS
MAIN SAN GABRIEL BASIN
2903
DRY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

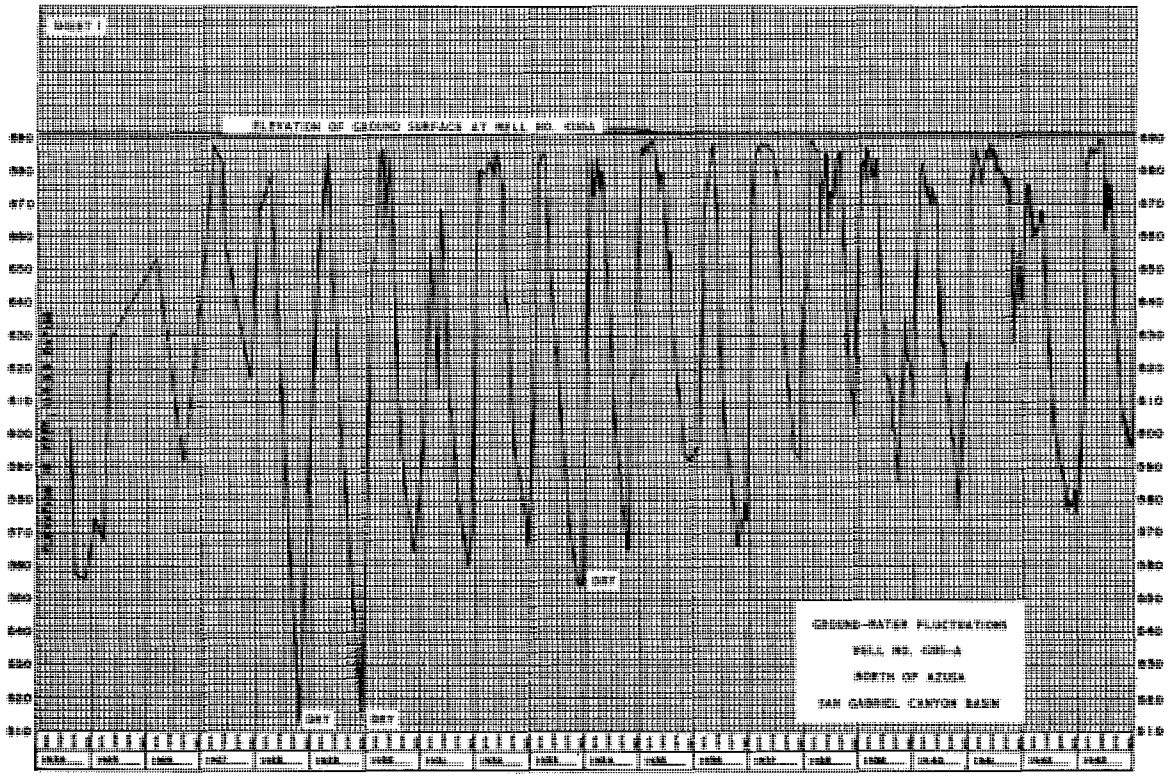

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL 2955–G = 240
ELEVATION OF GROUND SURFACE AT WELL 2955 B B=237
ELEVATION OF GRDUND SURFACE AT WELL 2955X = 231.9
GROUND – WATER FLUCTUATIONS
WELL NOS. 2955 G, 2955 X & 2955 BB
ABOVE WHITTIER NARROWS
MAIN SAN GABRIEL BASIN
2955 G
WELL 2955 BB SUBSTITUTED FOR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

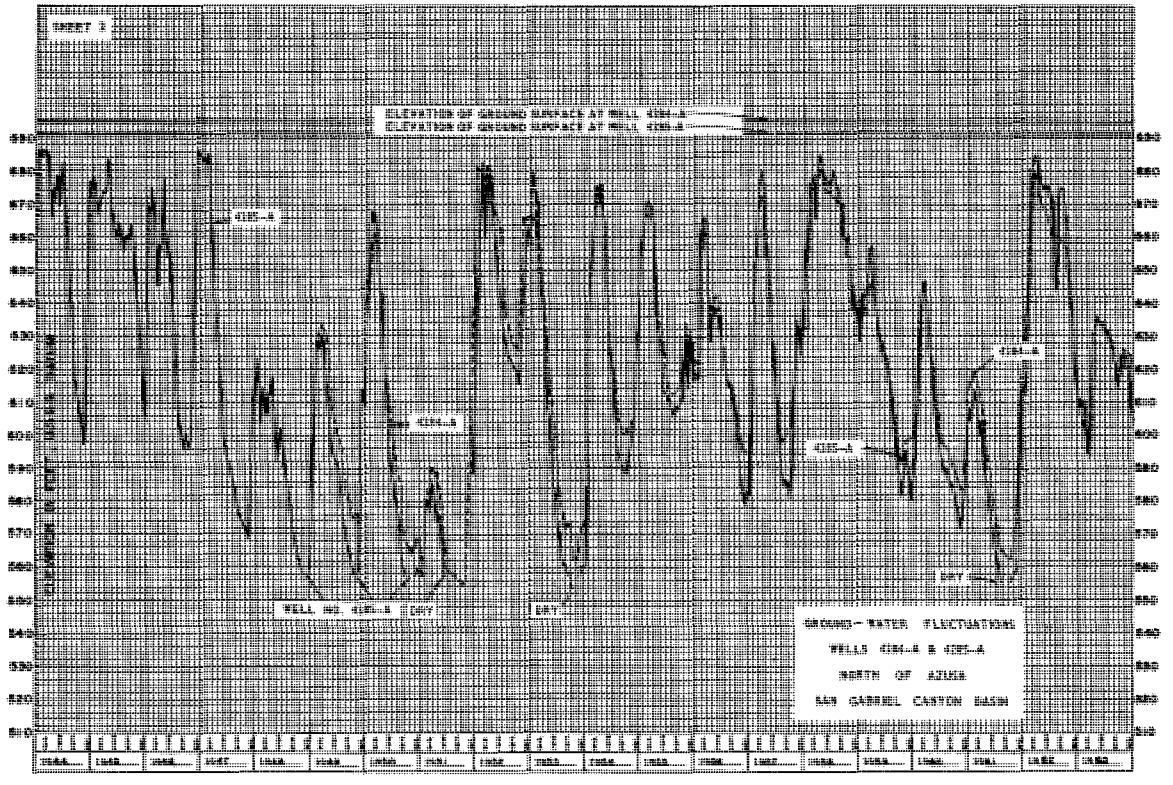

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL 3030 = 382.4'
3030
ELEVATION IN FEET, U.S.C.&G.S. DATUM
GROUND-WATER FLUCTUATIONS
WELL NOS. 3030 & 3030 F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
340
330
320
310
300
290
280
270
260
250
1903
1904
1905
1906
1907
1908
1909
1910
1911
1912
1913
1914
1915
1916
1917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

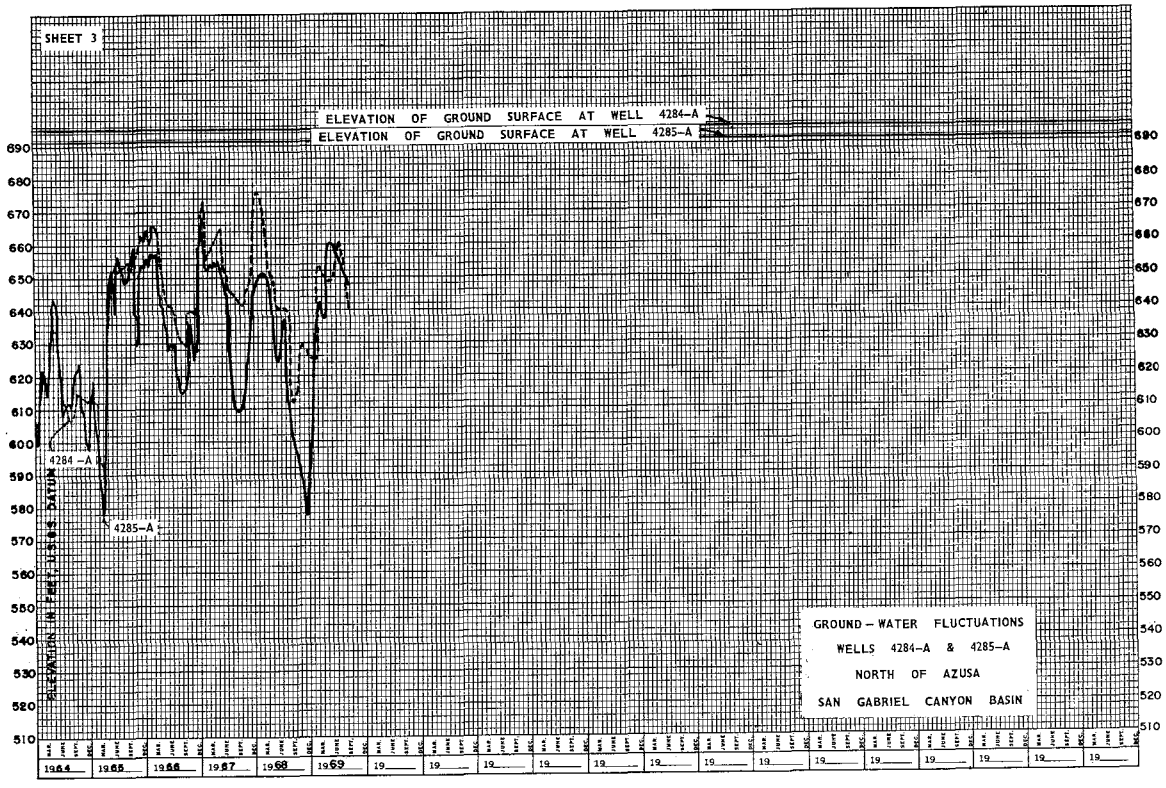

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL 3030 = 382.4
ELEVATION OF GROUND SURFACE AT WELL 3030F = 386.7
3030
3030 F
BEGINNING OF 3030F RECORD
END OF 3030 RECORD
ELEVATION IN FEET, U.S.C.&G.S. DATUM
GROUND-WATER FLUCTUATIONS
WELL NOS. 3030 & 3030 F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
340
330
320
310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

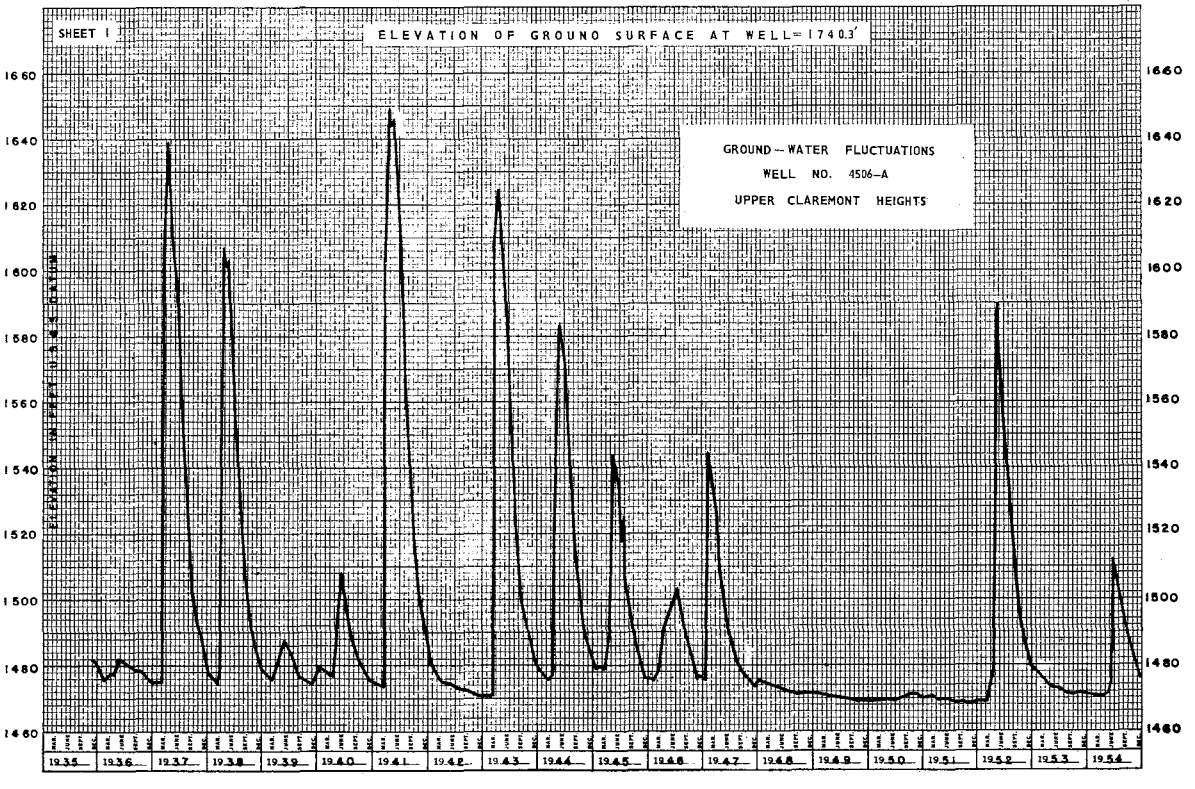

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL 3030F = 386.7
GROUND – WATER FLUCTUATIONS
WELL NOS. 3030 & 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
3030F
ELEVATION IN FEET, U.S.C.&G.S. DATUM
330
320
310
300
290
280
270
260
250
240
230
220
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955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

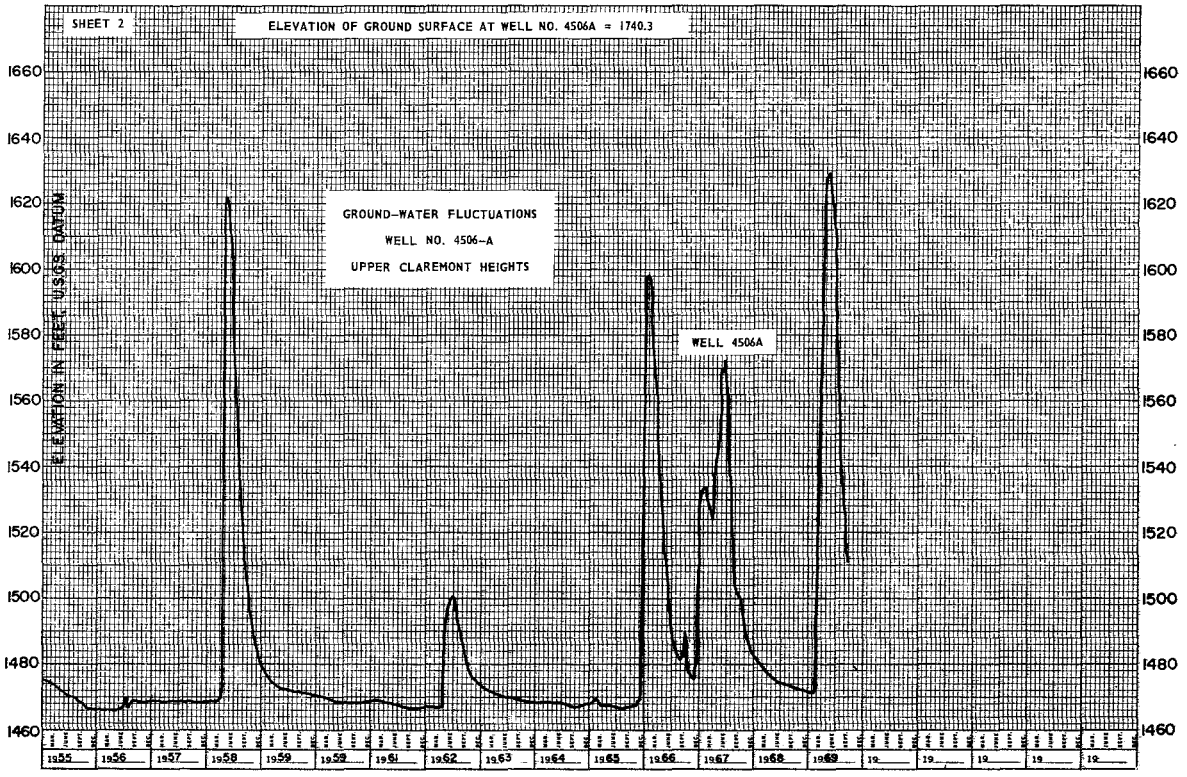

SHEET 4
ELEVATION OF GROUND SURFACE AT WELL 3030F = 386.7'
GROUND – WATER FLUCTUATIONS
WELL NOS. 3030 & 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
3030-F
ELEVATION IN FEET, U.S.C.&G.S. DATUM
310
300
290
280
270
260
250
240
230
220
210
200
1963
1964
1965
1966
1967
1968
1969

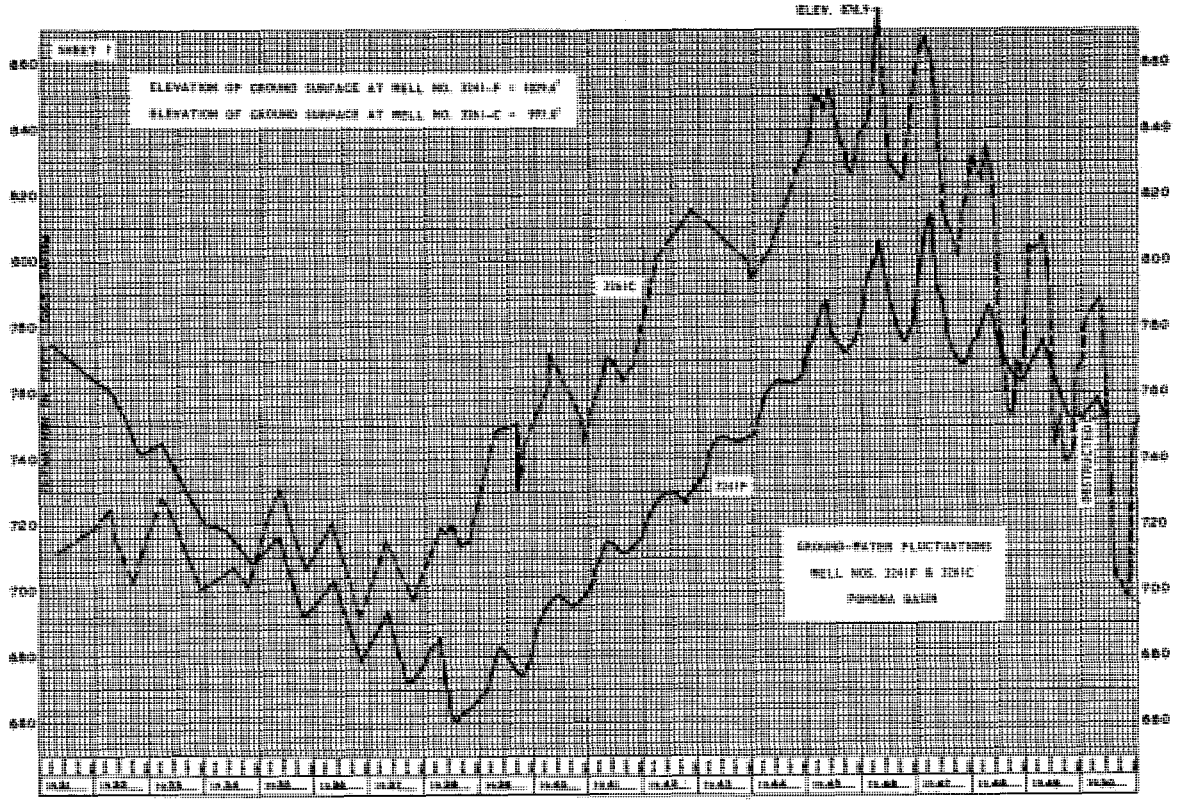

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 4385-A
GROUND-WATER FLUCTUATIONS
WELL NO. 4385-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN

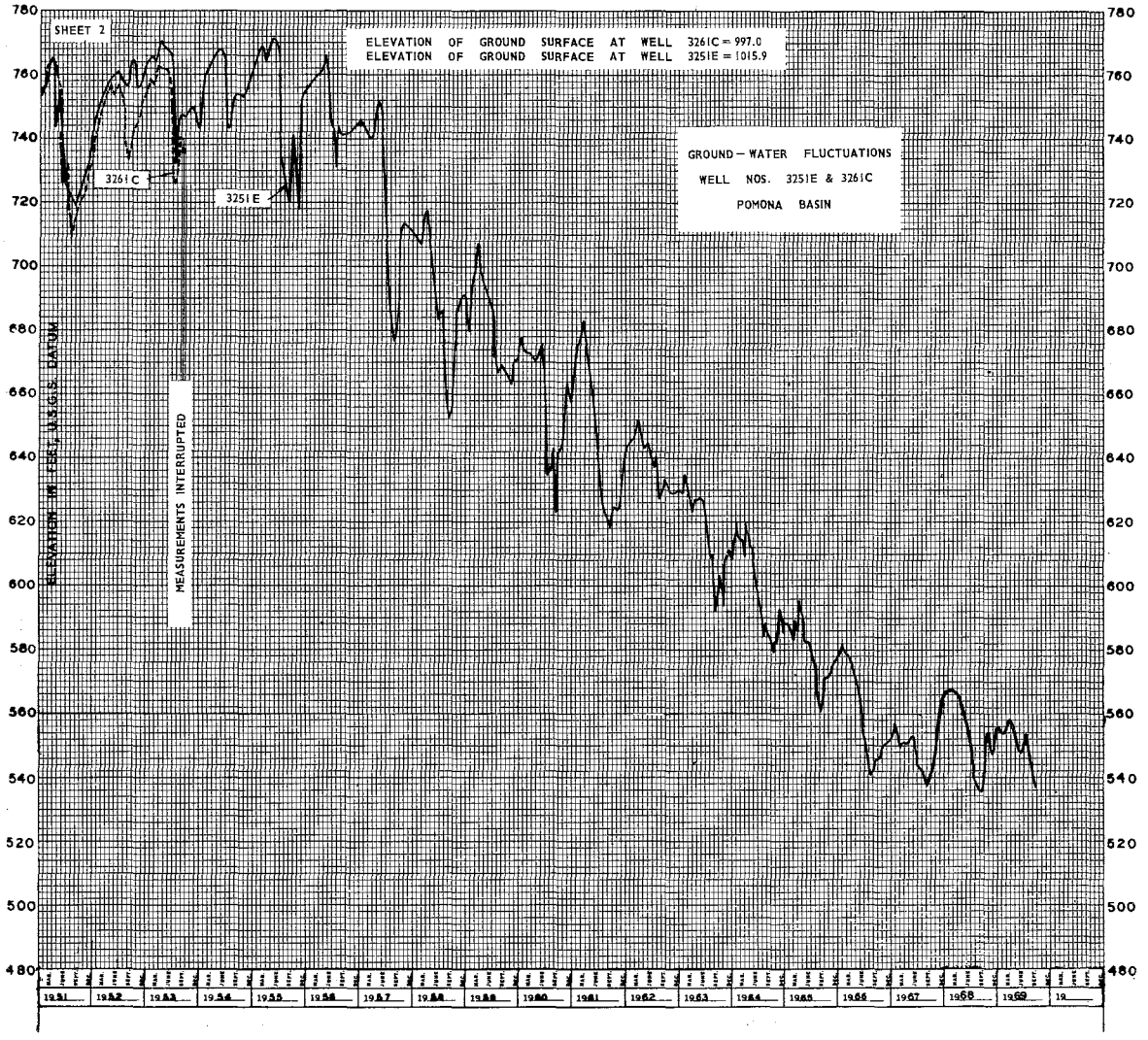

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL 4384-A
ELEVATION OF GROUND SURFACE AT WELL 4385-A
4385-A
4384-A
WELL NO. 4385-A
GROUND-WATER FLUCTUATIONS
WELLS 4384-A & 4385-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN

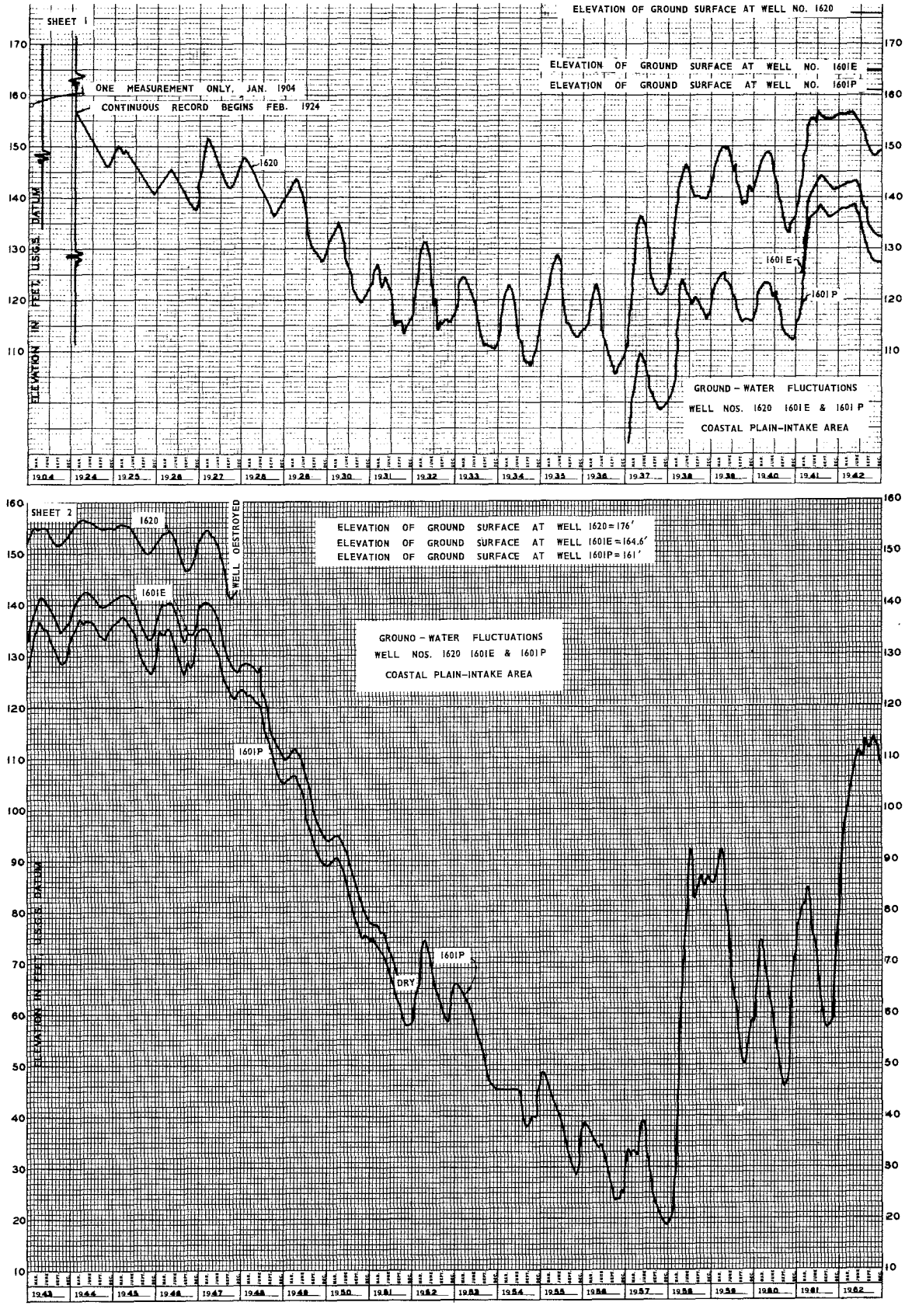

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL 4284-A
ELEVATION OF GROUND SURFACE AT WELL 4285-A
ELEVATION IN FEET ABOVE U.S.C. & G.S. DATUM
4284-A
4285-A
GROUND-WATER FLUCTUATIONS
WELLS 4284-A & 4285-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN
1964
1965
1966
1967
1968
1969

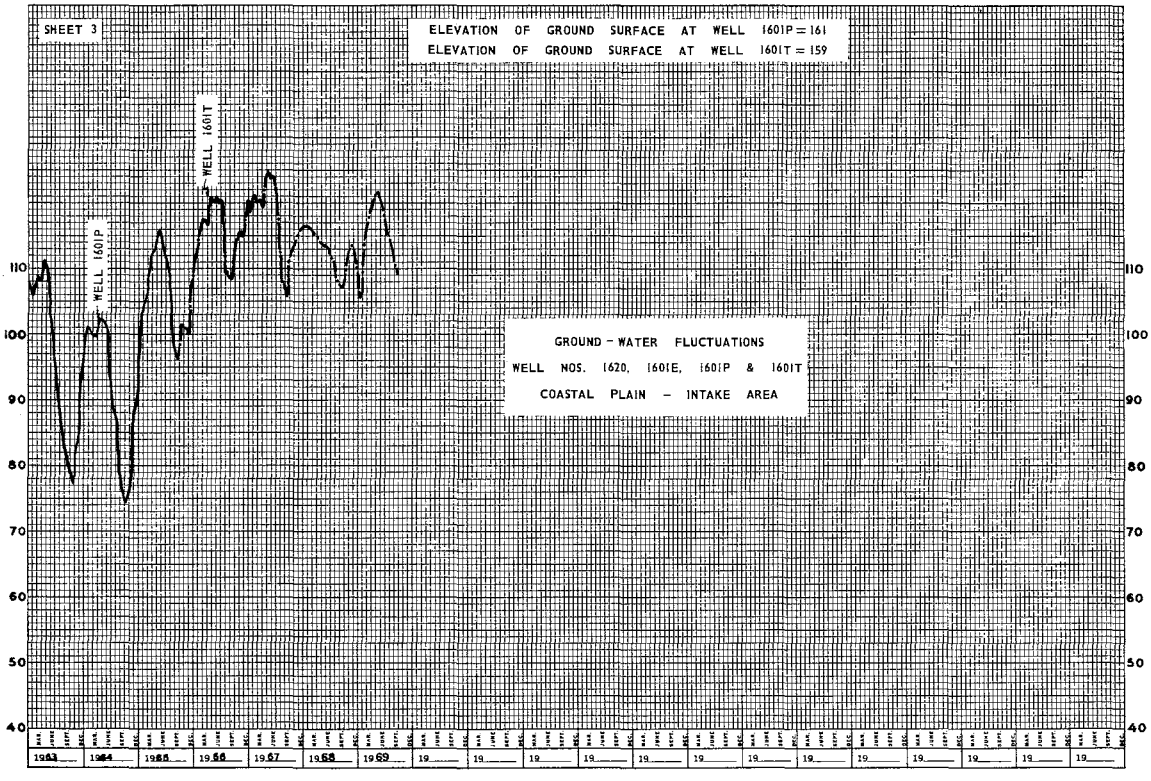

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL = 1740.3'
ELEVATION IN FEET ABOVE U.S.C. & G.S. DATUM
GROUND-WATER FLUCTUATIONS
WELL NO. 4506-A
UPPER CLAREMONT HEIGHTS
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954

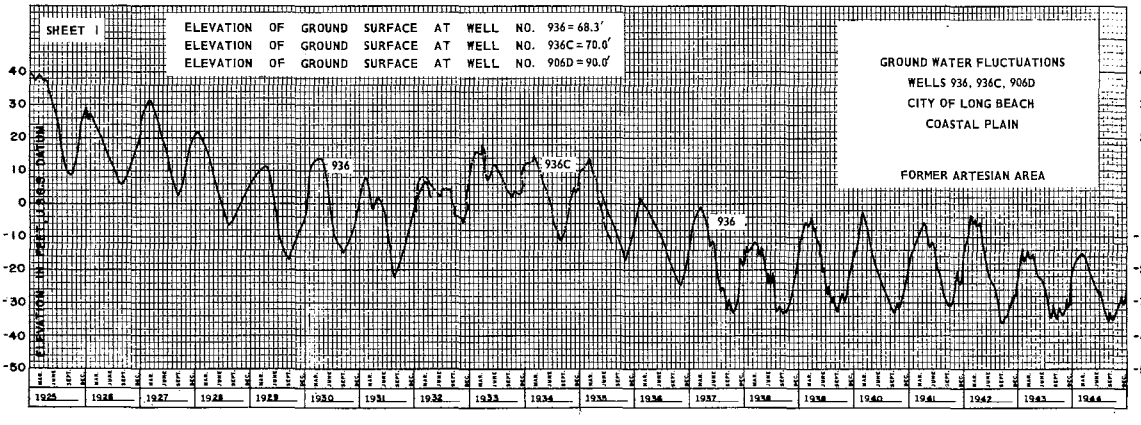

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL NO. 4506A = 1740.3
GROUND-WATER FLUCTUATIONS
WELL NO. 4506-A
UPPER CLAREMONT HEIGHTS
WELL 4506A
ELEVATION IN FEET, U.S.G.S. DATUM
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1955
1956
1957
1958
1959
1959
1961
1962
1963
1964
1965
1966
1967
1968
1969

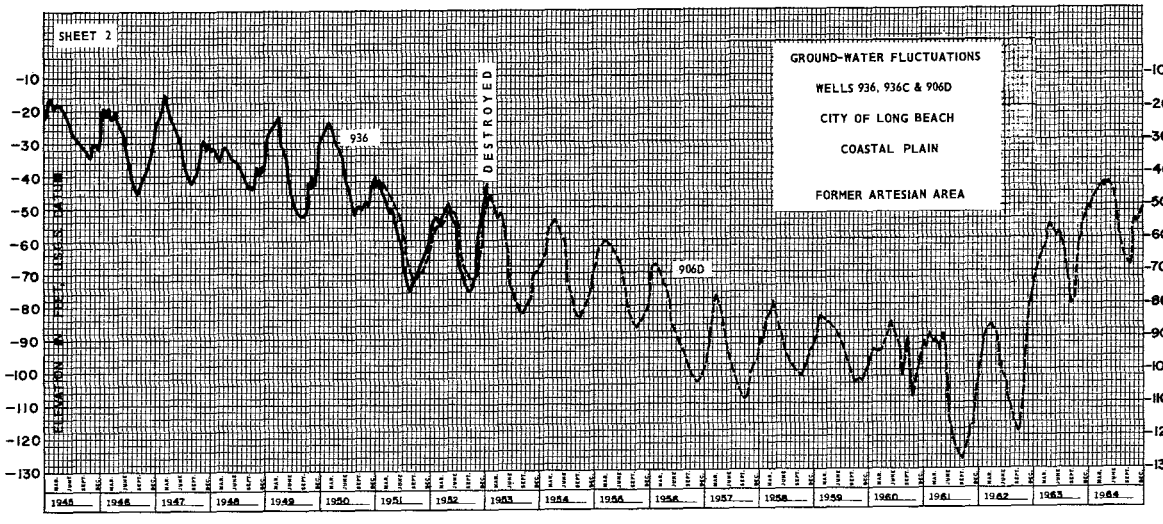

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 3241-F = 1029.4'
ELEVATION OF GROUND SURFACE AT WELL NO. 3241-C = 991.8'
3241C
3241F
GROUND-WATER FLUCTUATIONS
WELL NOS. 3241F & 3241C
POMONA BASIN
ELEV. 876.9
860
840
820
800
780
760
740
720
700
680
660

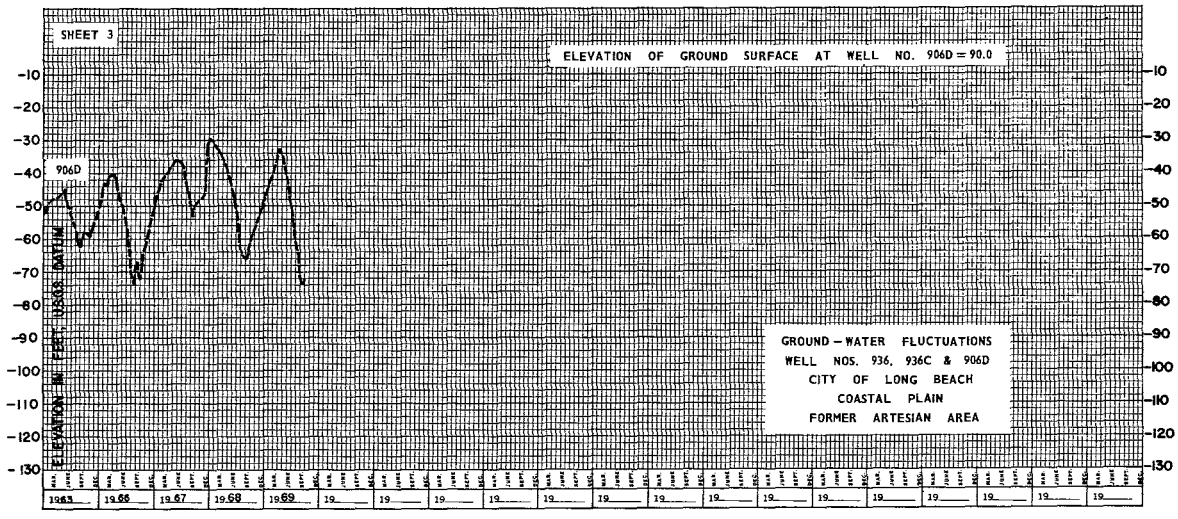

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL 3261C = 997.0
ELEVATION OF GROUND SURFACE AT WELL 3251E = 1015.9
GROUND-WATER FLUCTUATIONS
WELL NOS. 3251E & 3261C
POMONA BASIN
3261C
3251E
MEASUREMENTS INTERRUPTED
ELEVATION IN FEET, U.S.G.S. DATUM
780
760
740
720
700
680
660
640
620
600
580
560
540
520
500
480
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
19


SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 1620
ELEVATION OF GROUND SURFACE AT WELL NO. 1601E
ELEVATION OF GROUND SURFACE AT WELL NO. 1601P
ONE MEASUREMENT ONLY, JAN. 1904
CONTINUOUS RECORD BEGINS FEB. 1924
1620
1601E
1601P
ELEVATION IN FEET, U.S.G.S. DATUM
GROUND - WATER FLUCTUATIONS
WELL NOS. 1620 1601E & 1601P
COASTAL PLAIN-INTAKE AREA
SHEET 2
1620
WELL DESTROYED
1601E
1601P
ELEVATION OF GROUND SURFACE AT WELL 1620 = 176'
ELEVATION OF GROUND SURFACE AT WELL 1601E = 164.6'
ELEVATION OF GROUND SURFACE AT WELL 1601P = 161'
GROUND - WATER FLUCTUATIONS
WELL NOS. 1620 1601E & 1601P
COASTAL PLAIN-INTAKE AREA
1601P
DRY
ELEVATION IN FEET, U.S.G.S. DATUM


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


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


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


SHEET 3
ELEVATION OF GROUND SURFACE AT WELL NO. 906D = 90.0
906D
GROUND – WATER FLUCTUATIONS
WELL NOS. 936, 936C & 906D
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
ELEVATION IN FEET, USGS DATUM
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
1963
1966
1967
1968
1969
19
19
19
19
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19
19

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F300-R

DAILY DISCHARGE IN SECOND-FEET OF LOS ANGELES RIVER at Tujunga Avenue FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 71

	October	November	December	January	February	March	April	May	June	July	August	September
1	13.0	8.9	b 83	b 14.5	b 15.1	168	25	b 18.0	16.4	b 20	13.7	15.4
2	13.7	9.5	b 411	b 15.6	b 14.1	150	24	b 17.6	15.9	b 19.0	13.9	14.9
3	20	8.7	b 15.6	b 14.9	b 13.1	155	25	b 17.6	17.2	b 18.0	14.2	13.7
4	26	8.7	b 15.6	b 14.9	b 12.1	157	22	b 17.6	18.0	b 17.5	16.4	14.9
5	14.2	8.9	19.4	b 14.9	13.2	154	24	b 17.6	15.9	b 17.5	16.2	14.9
6	13.7	113	14.7	b 14.9	15.2	148	27	b 17.6	16.2	b 17.5	14.7	156
7	10.2	13.9	11.1	b 14.9	15.2	149	28	b 17.6	16.7	b 17.5	17.2	16.6
8	10.2	10.6	11.1	b 14.9	17.7	149	24	b 17.6	18.5	b 17.5	17.5	13.0
9	10.2	9.5	225	b 14.9	164	149	27	b 17.6	18.0	b 17.5	17.5	15.4
10	10.9	8.9	11.1	b 14.9	436	148	27	b 17.6	17.2	b 17.5	16.4	15.2
11	10.6	8.2	8.0	b 14.9	400	146	24	b 17.6	14.9	b 17.5	15.9	15.7
12	11.1	8.0	7.8	b 526	259	151	26	b 17.6	13.7	b 17.5	19.1	15.9
13	10.4	7.6	10.9	b 247	187	553	28	b 17.6	15.9	b 17.5	22	18.3
14	9.7	7.0	150	b 66	35	148	584	b 18.0	15.4	b 17.5	19.7	18.8
15	9.5	7.4	11.3	b 13.9	44	128	38	b 18.5	44	b 17.0	16.9	16.7
16	10.2	8.9	114	b 13.9	355	104	32	b 19.0	b 30	b 16.5	16.7	16.7
17	8.2	9.1	186	b 13.9	411	44	30	b 19.5	b 30	16.2	16.4	15.4
18	8.0	9.5	2,920	b 13.9	30	40	b 20	b 20	b 28	15.7	16.2	18.0
19	8.4	10.2	2,480	b 13.9	29	36	b 20	b 20	b 27	17.2	196	17.2
20	7.6	12.2	257	b 13.9	25	30	b 20	21	b 26	16.9	15.4	16.7
21	8.7	13.4	3,150	b 13.9	19.4	58	b 20	18.5	b 25	17.7	16.2	16.4
22	7.8	11.6	b 15.6	b 14.3	18.8	25	b 20	16.4	b 23	15.9	15.7	13.9
23	7.8	11.8	b 15.6	b 14.7	21	24	b 20	17.2	b 22	17.7	16.4	14.7
24	8.4	11.3	b 15.6	b 15.1	17.7	32	b 20	21	b 22	15.4	17.2	14.2
25	7.6	115	b 14.5	b 15.5	17.2	27	b 20	20	b 22	14.9	19.9	14.2
26	7.2	167	b 14.5	b 15.9	18.5	31	b 36	19.7	b 22	15.9	14.9	13.4
27	7.6	10.0	b 14.5	b 16.5	126	66	b 40	48	b 21	15.2	16.4	13.4
28	6.8	1,900	b 14.5	b 16.5	169	69	b 19.8	192	b 21	14.9	17.2	14.7
29	7.4	9,170	b 14.5	b 16.5		26	b 19.8	16.9	b 21	13.7	16.2	13.9
30	8.9	b 574	b 14.5	b 16.5		24	b 19.8	15.9	b 21	13.0	14.7	13.4
31	8.0		b 14.5	b 16.5		28		13.7		13.0	14.9	
MEAN	10.4	409	331	40.6	104	107	43.7	24.7	21.2	16.7	21.9	20.1
ACRE-FEET	639	24,340	20,350	2,500	5,750	6,580	2,600	1,520	1,260	1,020	1,340	1,190

YEAR OR PERIOD MEAN 95.4
ACRE-FEET 69,090

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F300-R

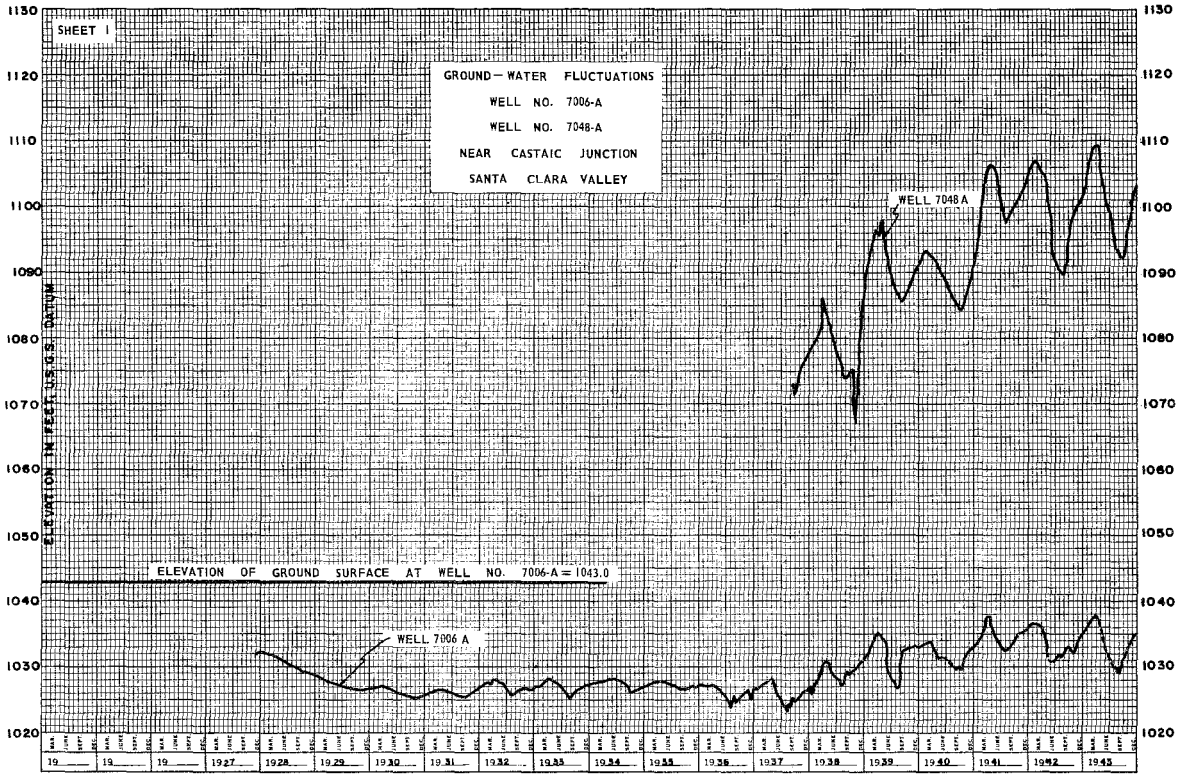
DAILY DISCHARGE IN SECOND-FEET OF LOS ANGELES RIVER at Tujunga Avenue FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 72

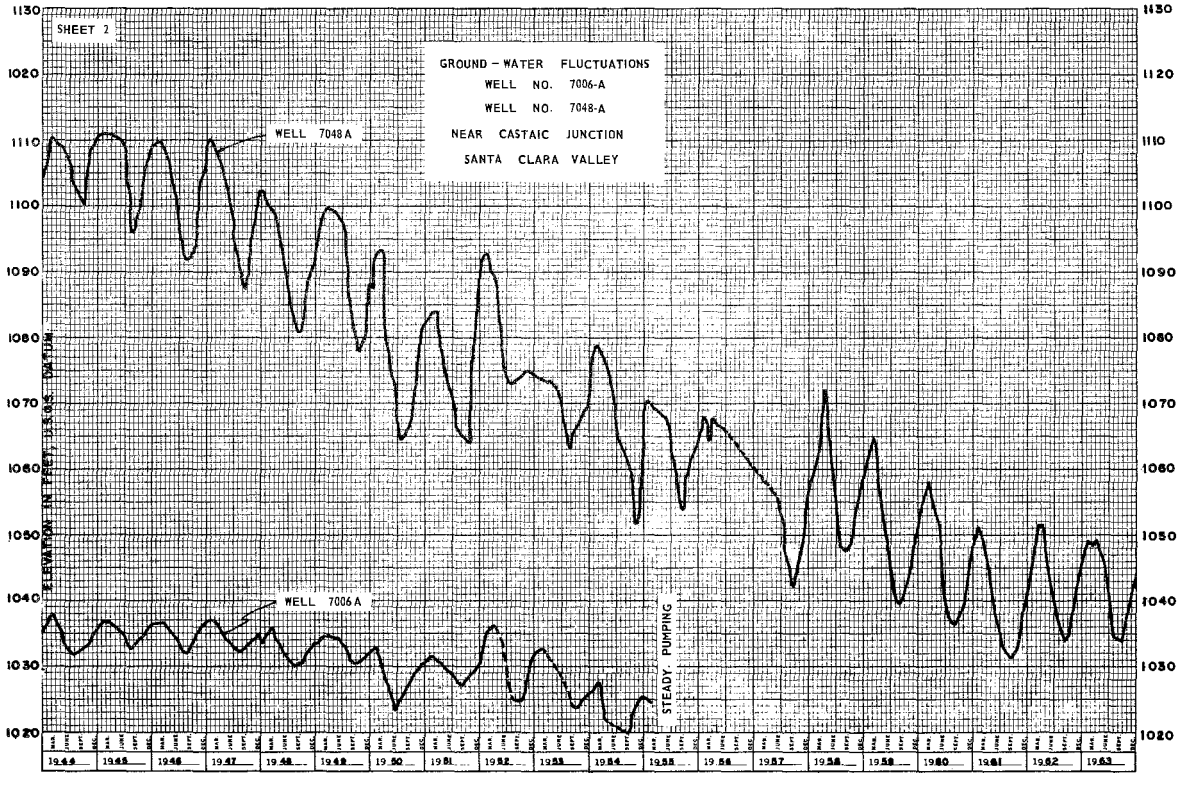
	October	November	December	January	February	March	April	May	June	July	August	September
1	12.2	10.0	12.0	20	13.4	13.9	15.4	14.2	16.3	14.9	13.0	13.3
2	14.2	10.6	34	20	12.7	15.2	15.2	14.9	15.7	12.2	13.7	10.9
3	14.2	12.7	28	19.1	12.7	15.7	15.2	14.4	15.4	11.8	10.2	10.6
4	14.2	13.0	24	12.5	17.3	16.4	17.5	14.9	15.7	12.2	9.1	12.2
5	14.9	13.7	12.2	12.7	147	18.8	16.7	14.7	17.2	11.3	9.7	12.5
6	15.7	13.9	12.5	18.3	18.5	17.5	15.4	17.7	22	11.1	8.0	13.0
7	16.7	14.4	12.7	17.7	14.7	16.9	14.2	17.3	37	9.7	11.3	11.6
8	16.4	12.5	11.1	14.7	12.7	16.7	15.4	14.7	13.4	12.5	10.9	11.1
9	16.9	12.7	12.2	13.7	16.4	17.2	15.2	16.2	12.2	11.8	10.9	10.6
10	16.4	12.7	13.9	13.7	14.7	27	14.2	16.4	10.4	11.4	10.4	9.8
11	15.9	33	12.7	20	32	33	15.7	14.4	12.7	11.8	10.6	11.2
12	15.2	199	13.7	16.4	18.4	18.3	14.2	19.4	12.0	12.0	131	11.5
13	12.2	12.0	126	16.4	18.5	18.0	12.5	16.2	13.8	18.8	24	11.3
14	12.7	9.1	10.4	15.9	14.4	15.9	11.8	17.2	10.0	16.4	13.5	9.3
15	15.9	9.1	10.6	16.7	13.9	15.4	15.4	16.7	12.5	13.4	12.0	10.0
16	23	10.2	9.1	16.4	18.0	15.9	27	16.2	12.2	13.7	12.2	9.3
17	20	13.7	34	25	14.2	15.9	22	14.4	13.4	13.2	11.6	8.9
18	12.0	14.9	10.2	19.1	15.4	17.2	23	14.4	13.0	13.4	12.0	8.7
19	12.7	12.2	10.6	21	14.2	15.4	22	14.4	11.8	13.1	11.1	9.3
20	12.7	13.2	10.0	21	14.4	15.2	13.7	22	13.2	11.4	11.1	9.1
21	13.2	14.4	10.0	21	14.4	14.9	14.7	13.9	13.2	9.3	11.8	9.5
22	13.2	14.4	1,110	18.8	13.7	14.7	14.9	12.7	13.0	8.9	11.6	10.2
23	13.2	13.7	121	19.1	15.2	14.2	15.2	16.4	11.8	9.3	13.4	9.7
24	349	13.7	1,180	17.5	16.4	14.4	20	15.2	13.7	10.6	16.4	9.7
25	35	13.7	1,240	18.3	17.7	14.2	29	13.7	14.3	9.7	10.6	8.9
26	10.2	12.7	238	24	16.9	13.4	14.7	14.2	11.4	10.9	11.6	7.8
27	10.4	13.2	2,800	22	18.3	13.2	14.9	15.7	13.7	10.4	10.4	8.9
28	8.0	12.7	1,040	20	17.7	13.2	14.4	16.2	13.2	13.4	13.0	9.1
29	10.6	13.4	b 66	18.0	16.4	13.2	14.7	15.7	14.4	13.4	10.4	9.3
30	8.7	12.7	b 35	13.9		13.4	14.4	16.4	15.4	12.5	10.9	8.7
31	9.3		b 28	12.5		14.7		16.2		12.0	11.8	
MEAN	25.6	19 6	267	17.9	20.7	16.4	16.6	18.0	14.5	12.1	15.7	10.2
ACRE-FEET	1,560	1,160	16,440	1,100	1,190	1,010	989	966	860	747	968	607

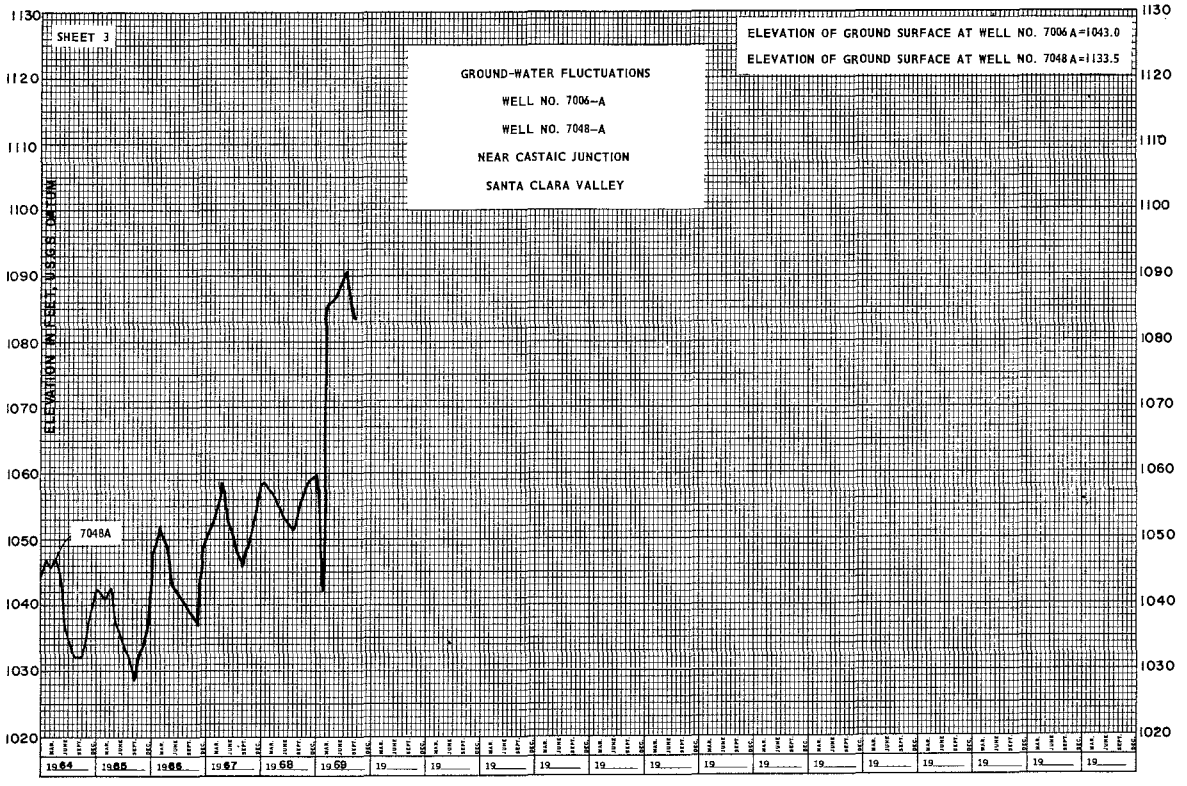
YEAR OR PERIOD MEAN 38
ACRE-FEET 27,520

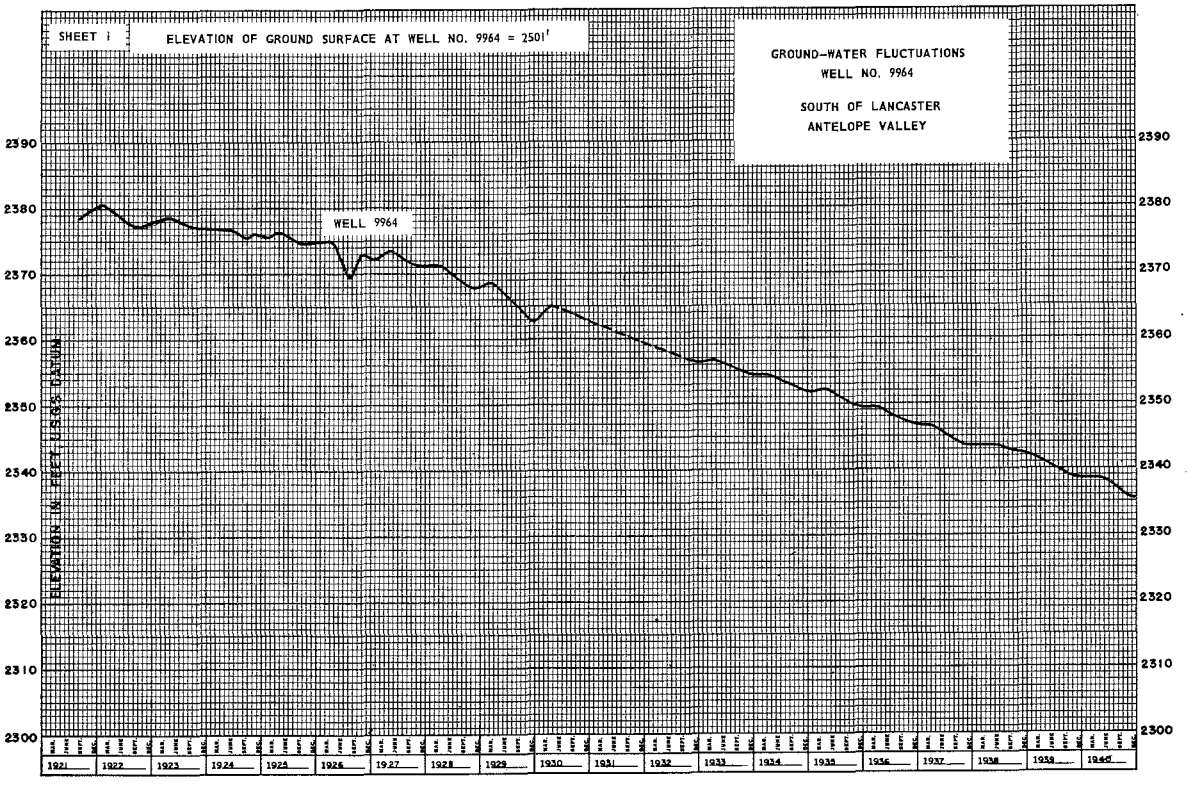
STA. NO. F300-R
LOS ANGELES RIVER AT TUJUNGA AVENUE

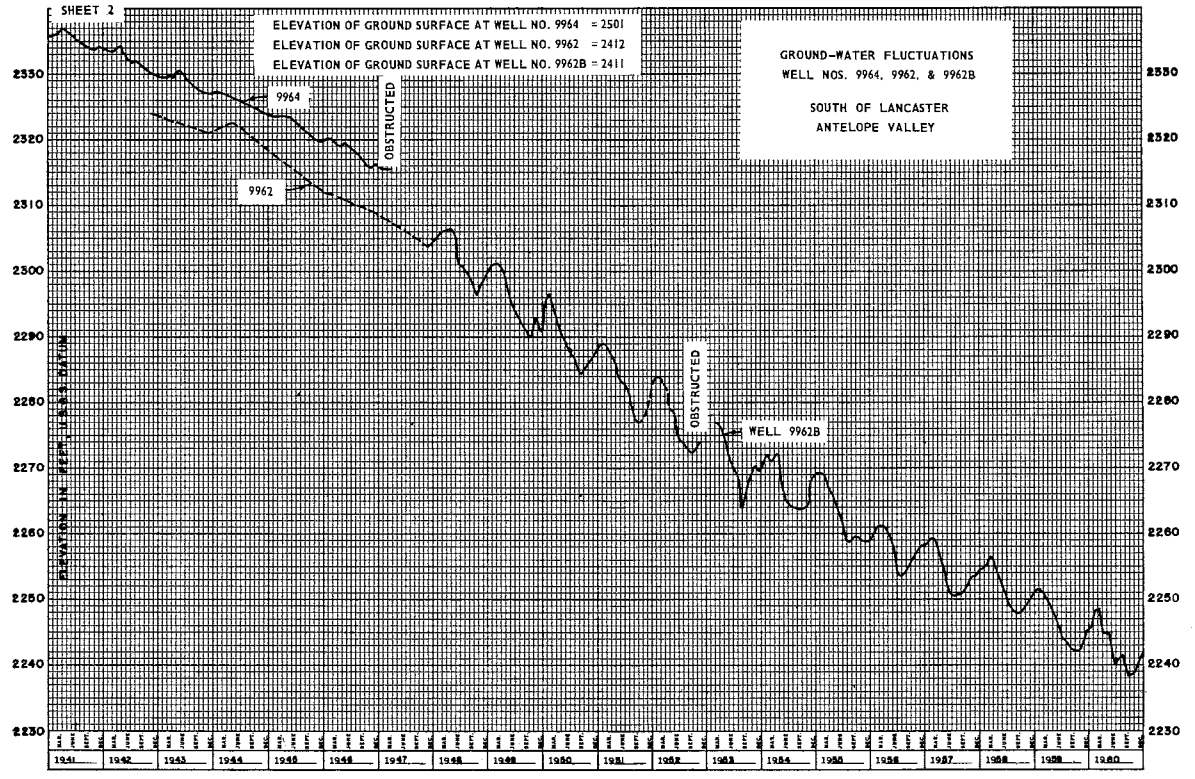
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	PEAK DAY	FLOW CFS
1950-51	181	2.6	12.3	8910	1	29	598
1951-52	5360	3.1	101	73040	1	15	13200
1952-53	851	6.5	27.1	19610	12	1	2900
1953-54	1360	4.6	27.2	19690	2	13	5190
1954-55	842	5.7	30.4	22000	1	10	4560
1955-56	3890	5.7	35.1	25490	1	16	6800
1956-57	1300	4.5	27.2	19700	1	13	6060
1957-58	3530	3.8	100	72710	4	3	10800
1958-59	2080	4.8	29.2	21180	1	6	12800
1959-60	1040	4.0	28	20650	1	12	6900
1960-61	1010	3.2	18.3	13260	11	5	6600
1961-62	6170	2.6	97.7	70690	2	12	21000
1962-63	2200	4.0	34.1	24690	2	9	8700
1963-64	1440	3.6	35.4	25730	1	22	7910
1964-65	2020	5.0	50.4	36490	4	9	7840
1965-66	8990	8.2	126	91340	12	29	20500
1966-67	5860	5.2	83.3	60320	11	7	21000
1967-68	5720	5.5	66.8	48500	3	8	18300
1968-69	19100	4.8	355	256800	1	25	30800
1969-70	2450	6.4	55.4	40080	3	4	11600
1970-71	9170	7.0	95.4	69090	11	29	25900
1971-72	2800	7.8	38.0	27520	12	27	11000

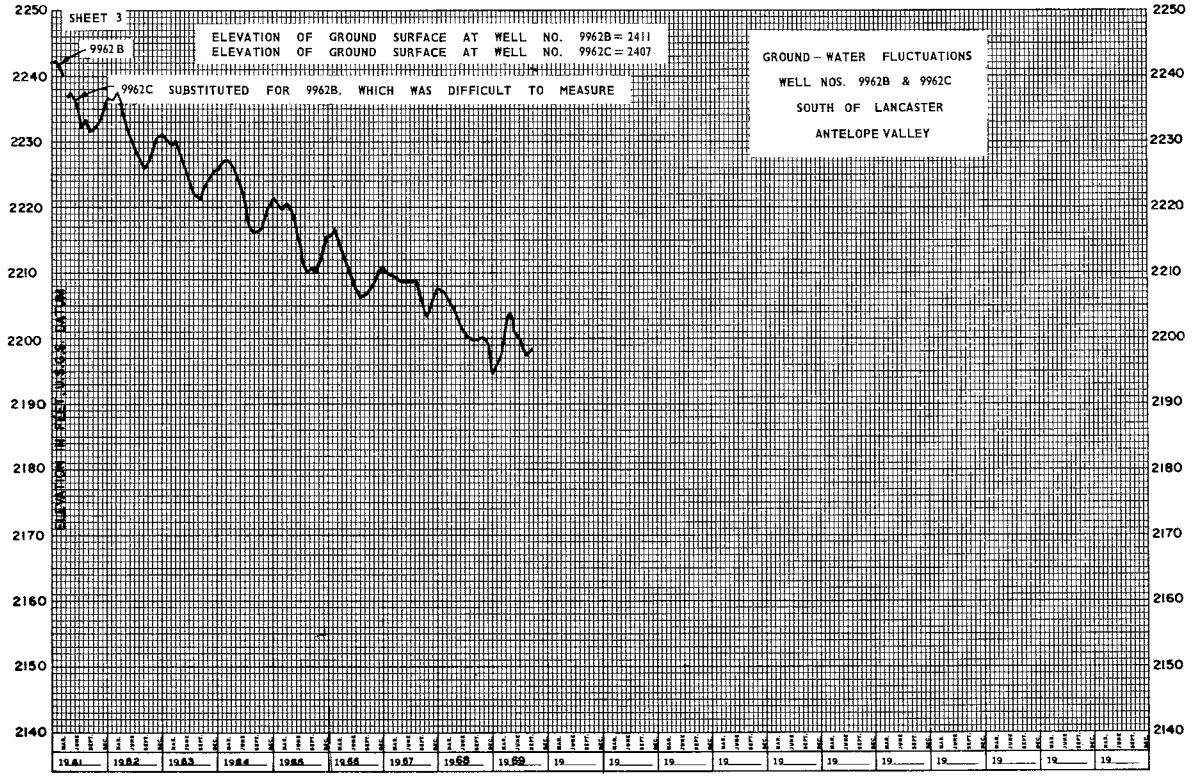

SHEET 1
GROUND—WATER FLUCTUATIONS
WELL NO. 7006-A
WELL NO. 7048-A
NEAR CASTAIC JUNCTION
SANTA CLARA VALLEY
WELL 7048 A
ELEVATION OF GROUND SURFACE AT WELL NO. 7006-A = 1043.0
WELL 7006 A
ELEVATION IN FEET, U.S.G.S. DATUM
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
1020
1927
1928
1929
1930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

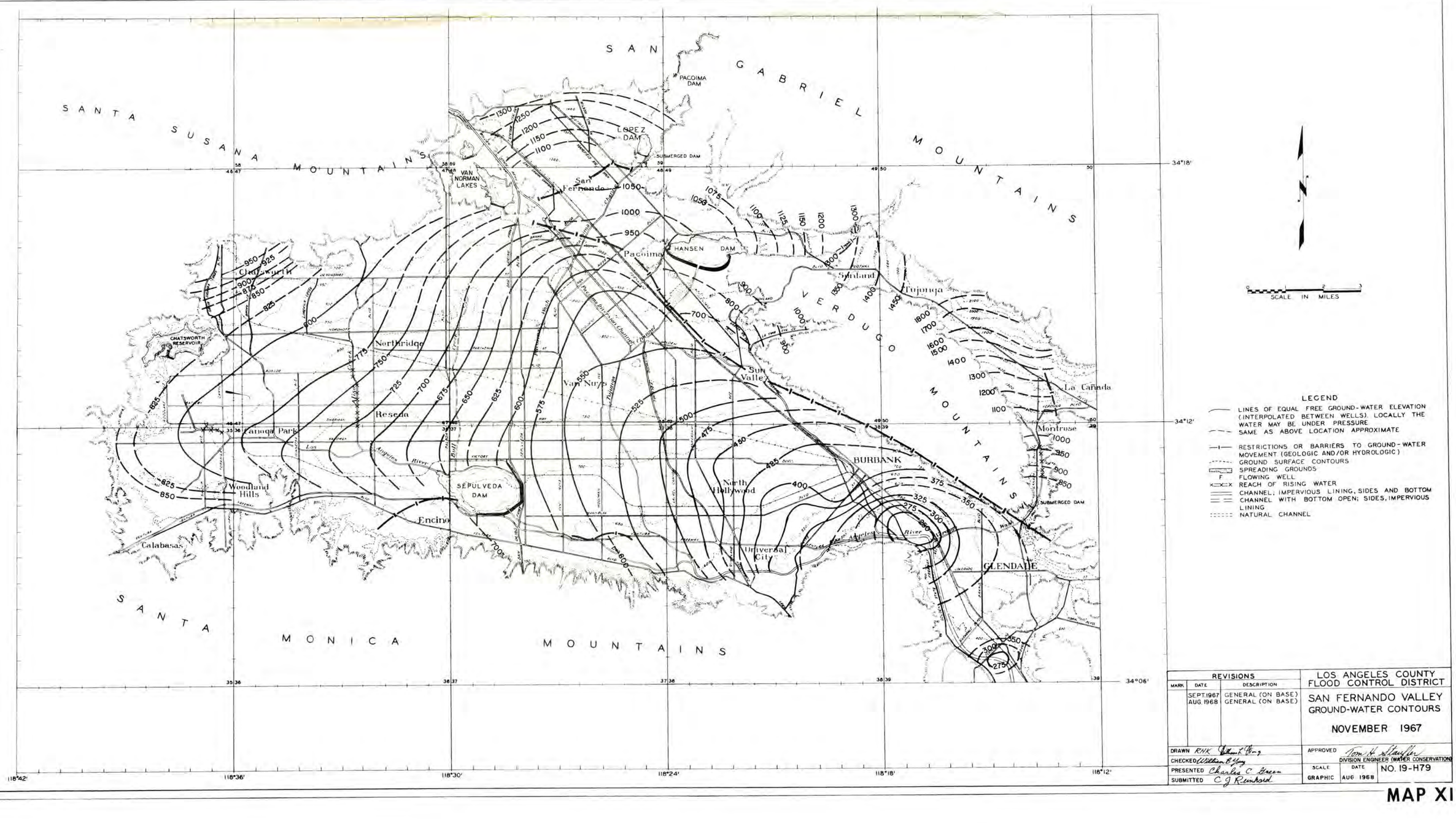

SHEET 2
GROUND—WATER FLUCTUATIONS
WELL NO. 7006-A
WELL NO. 7048-A
NEAR CASTAIC JUNCTION
SANTA CLARA VALLEY
WELL 7048 A
WELL 7006 A
STEADY PUMPING
ELEVATION IN FEET, U.S.G.S. DATUM
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
1020
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956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


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

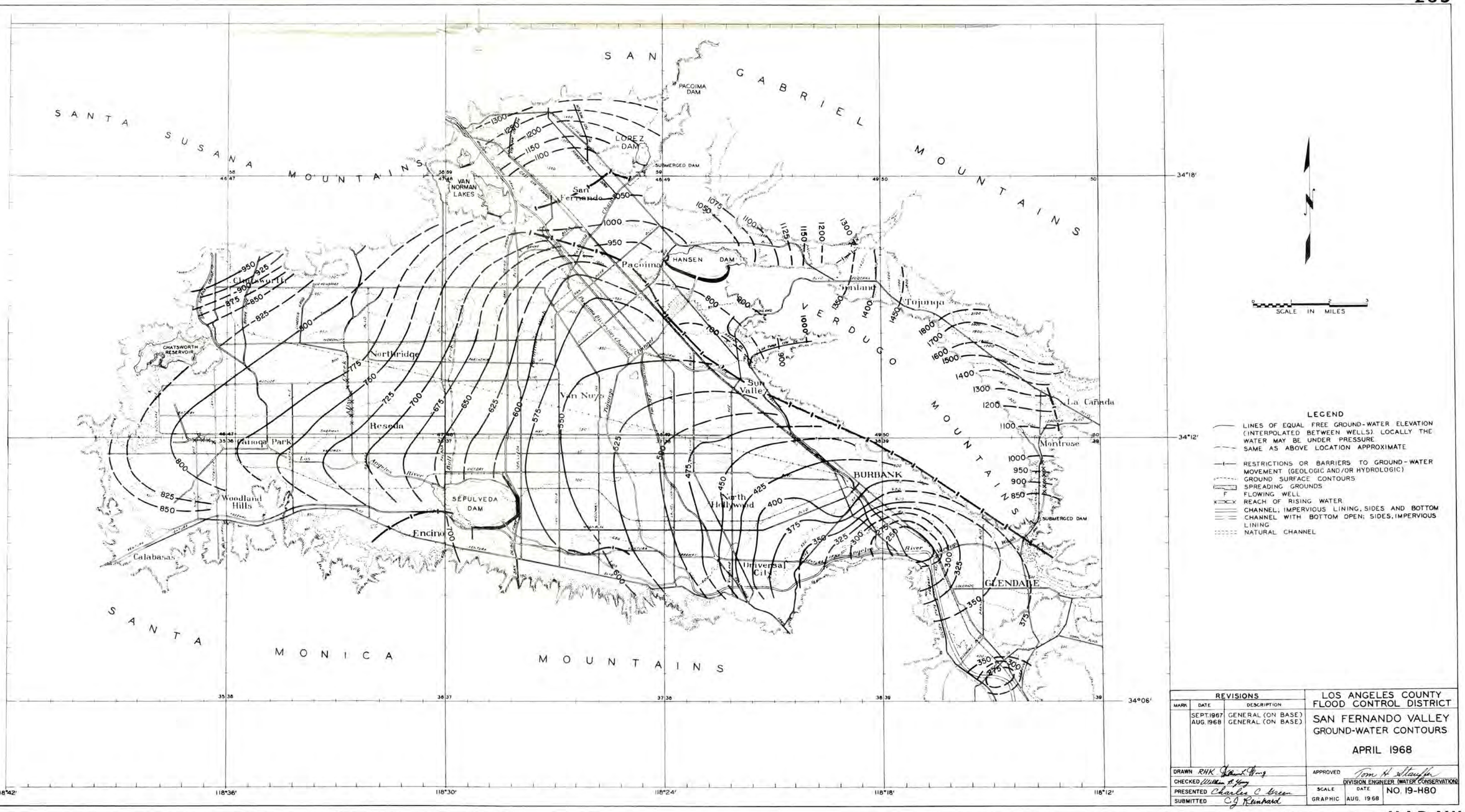

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 9964 = 2501'
GROUND-WATER FLUCTUATIONS
WELL NO. 9964
SOUTH OF LANCASTER
ANTELOPE VALLEY
WELL 9964
ELEVATION IN FEET, USGS DATUM
2390
2380
2370
2360
2350
2340
2330
2320
2310
2300
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935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


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

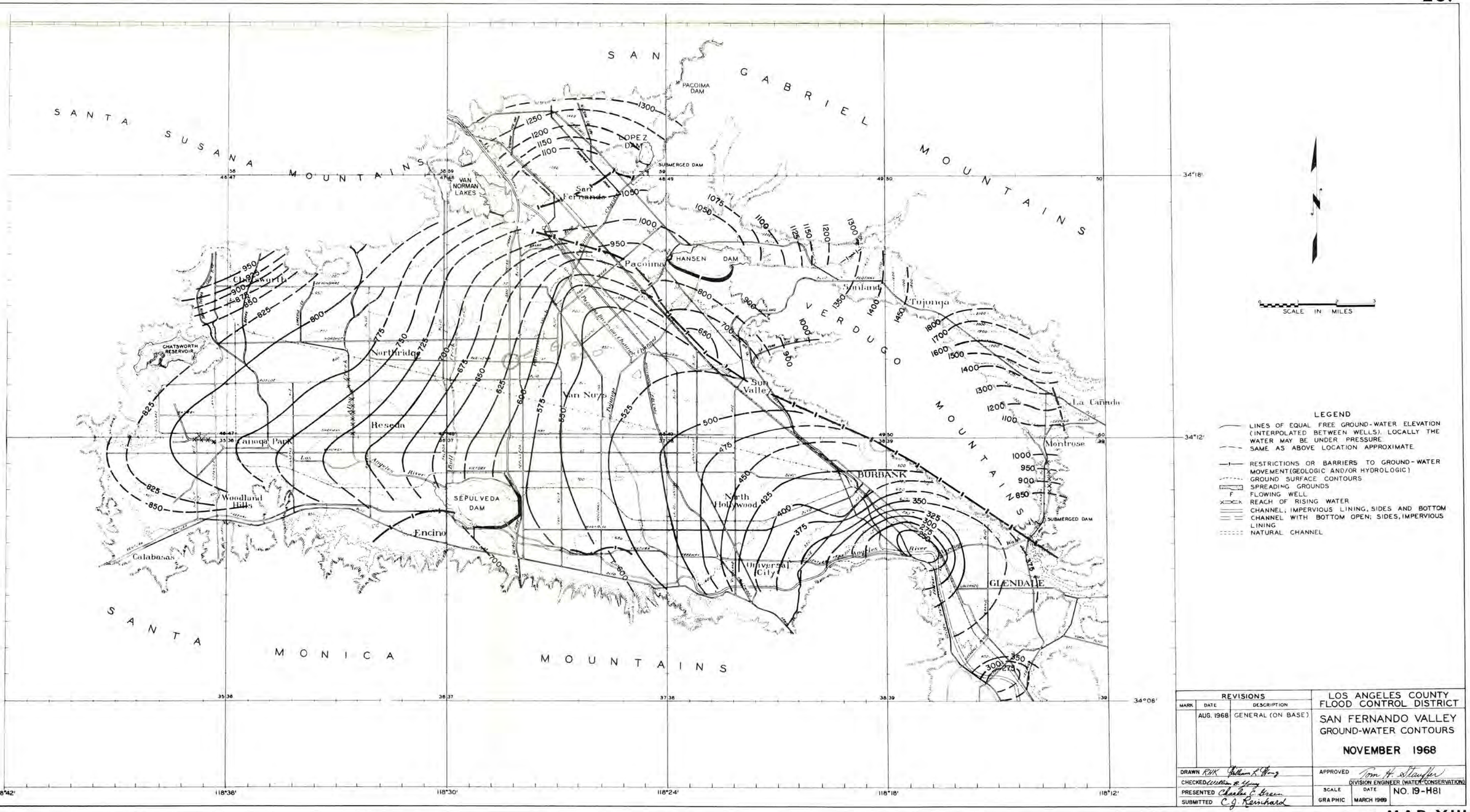

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL NO. 9962B = 2411
ELEVATION OF GROUND SURFACE AT WELL NO. 9962C = 2407
GROUND-WATER FLUCTUATIONS
WELL NOS. 9962B & 9962C
SOUTH OF LANCASTER
ANTELOPE VALLEY
9962B
9962C SUBSTITUTED FOR 9962B, WHICH WAS DIFFICULT TO MEASURE
ELEVATION IN FEET, U.S.G.S. DATUM
2250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


SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
VERDUGO MOUNTAINS
PACOIMA DAM
LOPEZ DAM
SUBMERGED DAM
VAN NORMAN LAKES
San Fernando
Pacoima
HANSEN DAM
Sunland
Tujunga
Chatsworth
CHATSWORTH RESERVOIR
Northridge
Van Nuys
Sun Valley
La Cañada
Montrose
Reseda
Canoga Park
Woodland Hills
SEPULVEDA DAM
Encino
Calabasas
North Hollywood
BURBANK
Universal City
GLENDALE
SCALE IN MILES
LEGEND
LINES OF EQUAL FREE GROUND-WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE
SAME AS ABOVE LOCATION APPROXIMATE
RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
FLOWING WELL
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
REVISIONS
MARK DATE DESCRIPTION
SEPT. 1967 GENERAL (ON BASE)
AUG. 1968 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY GROUND-WATER CONTOURS
NOVEMBER 1967
DRAWN RHK
CHECKED William B. Yong
PRESENTED Charles C. Green
SUBMITTED C. J. Reinhard
APPROVED Tom H. Stauffer
DIVISION ENGINEER (WATER CONSERVATION)
SCALE GRAPHIC
DATE AUG 1968
NO. 19-H79

MAP XI

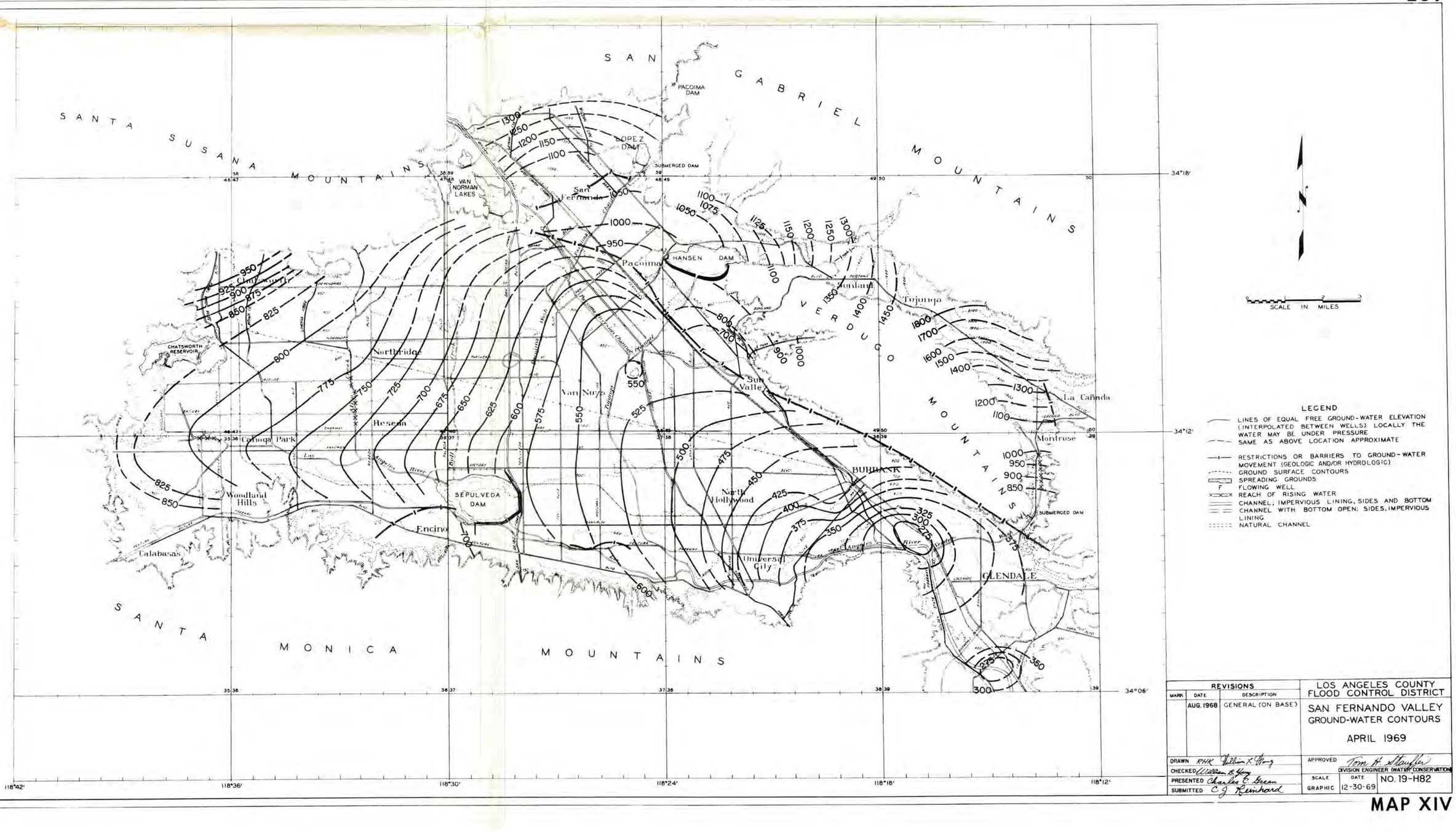

SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
VERDUGO MOUNTAINS
PACOIMA DAM
LOPEZ DAM
SUBMERGED DAM
VAN NORMAN LAKES
San Fernando
Pacoima
HANSEN DAM
Sunland
Tujunga
La Cañada
Montrose
Chatsworth
CHATSWORTH RESERVOIR
Northridge
Van Nuys
Sun Valley
Reseda
Canoga Park
Woodland Hills
SEPULVEDA DAM
Encino
Calabasas
North Hollywood
BURBANK
Universal City
GLENDALE
SCALE IN MILES
LEGEND
LINES OF EQUAL FREE GROUND-WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE
SAME AS ABOVE LOCATION APPROXIMATE
RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
FLOWING WELL
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
REVISIONS
MARK DATE DESCRIPTION
SEPT. 1967 GENERAL (ON BASE)
AUG. 1968 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY GROUND-WATER CONTOURS
APRIL 1968
DRAWN RHK
CHECKED William A. Young
PRESENTED Charles C. Green
SUBMITTED C.J. Reinhard
APPROVED Tom H. Stauffer
DIVISION ENGINEER (WATER CONSERVATION)
SCALE GRAPHIC
DATE AUG. 1968
NO. 19-H80

MAP XII



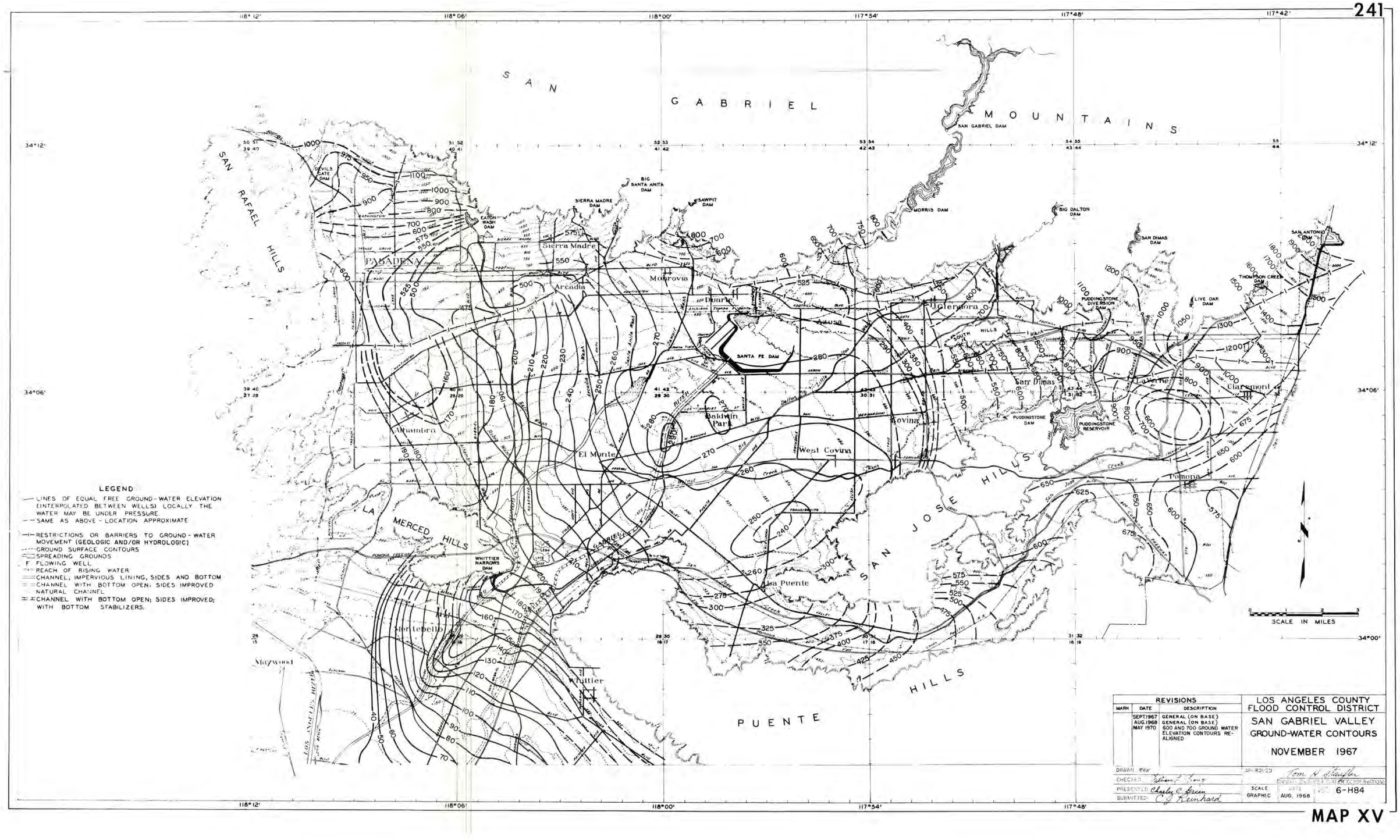
REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	
	AUG. 1968	GENERAL (ON BASE)	SAN FERNANDO VALLEY GROUND-WATER CONTOURS
			NOVEMBER 1968
DRAWN RHK		APPROVED Tom A. Stauffer	
CHECKED William R. Young		DIVISION ENGINEER (WATER CONSERVATION)	
PRESENTED Charles E. Green		SCALE	DATE
SUBMITTED C.J. Kerkhard		GRAPHIC	MARCH 1969
			NO. 19-H81

MAP XIII



REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	
	AUG. 1968	GENERAL (ON BASE)	SAN FERNANDO VALLEY GROUND-WATER CONTOURS
			APRIL 1969
DRAWN RHK			APPROVED Tom H. Stauffer, DIVISION ENGINEER (WATER CONSERVATION)
CHECKED William X. Yang			SCALE GRAPHIC
PRESENTED Charles E. Green			DATE 12-30-69
SUBMITTED C. J. Reinhard			NO. 19-H82

MAP XIV



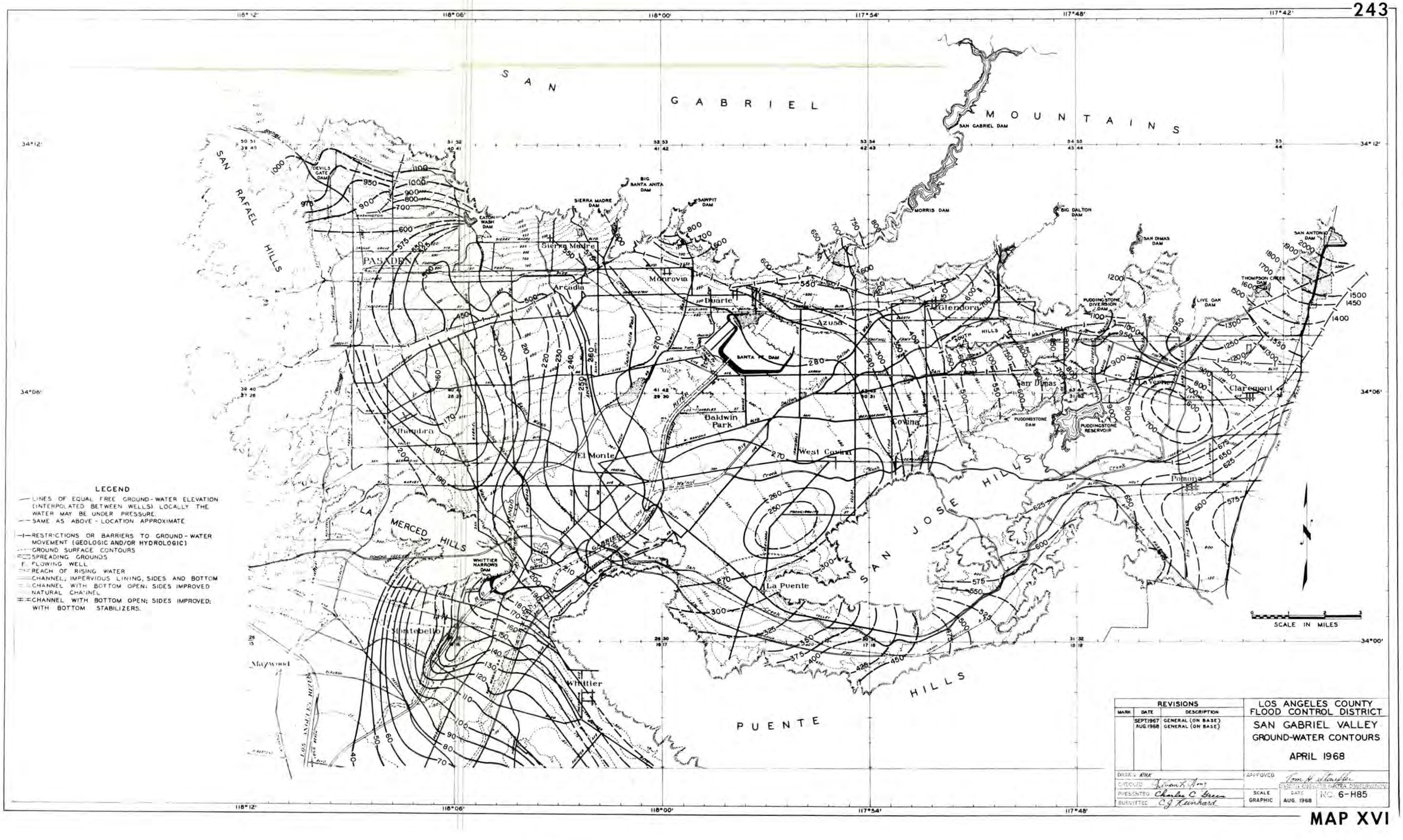
LEGEND

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

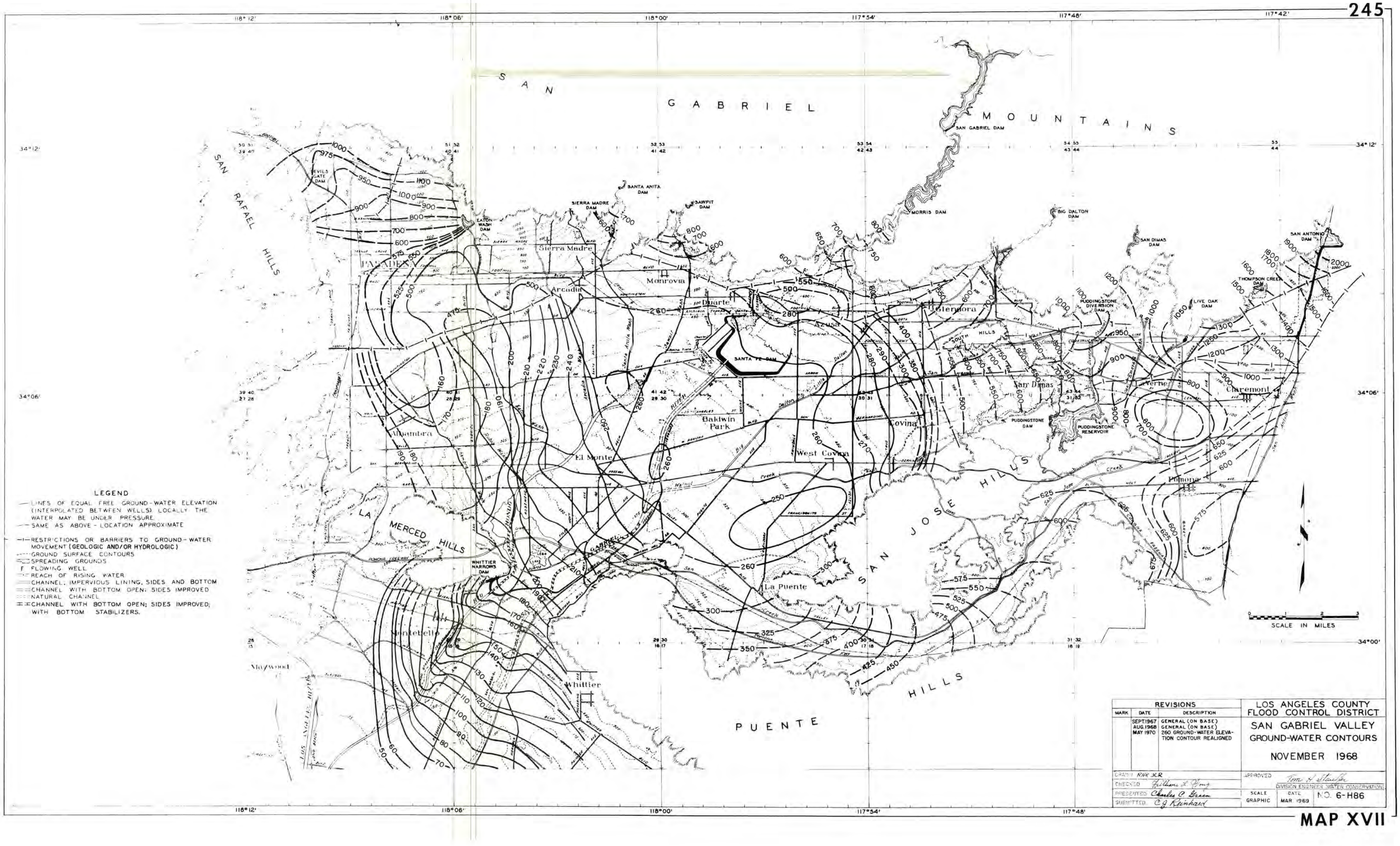
REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	
	SEPT 1967	GENERAL (ON BASE)	SAN GABRIEL VALLEY
	AUG 1968	GENERAL (ON BASE)	GROUND-WATER CONTOURS
	MAY 1970	600 AND 700 GROUND WATER ELEVATION CONTOURS RE-ALIGNED	NOVEMBER 1967

DRAWN RHK
CHECKED William F. Long
PRESENTED Charles C. Green
SUBMITTED C. J. Reinhard
APPROVED Tom A. Stauffer
CHIEF, WATER CONSERVATION
SCALE GRAPHIC
DATE AUG. 1968
FILE NO. 6-H84

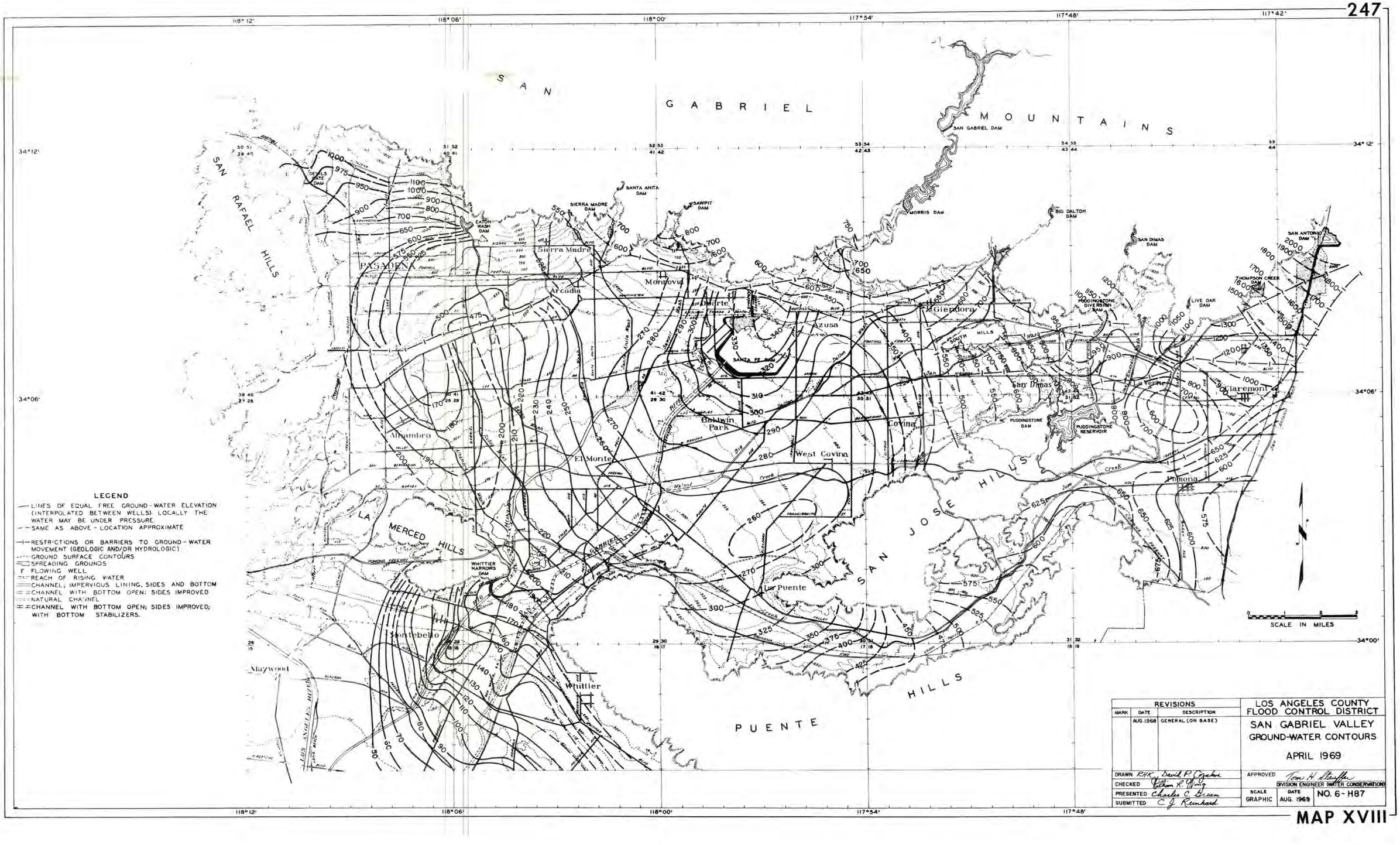
MAP XV


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
LA MERCED HILLS
SAN JOSE HILLS
PUENTE HILLS
PASADENA
Sierra Madre
Arcadia
Monrovia
Duarte
Azusa
Glendora
San Dimas
Claremont
Pomona
Covina
West Covina
Baldwin Park
El Monte
Alhambra
La Puente
Montebello
Whittier
Maywood
SAN GABRIEL DAM
MORRIS DAM
BIG DALTON DAM
SAN DIMAS DAM
SAN ANTONIO DAM
THOMPSON CREEK DAM
LIVE OAK DAM
PUDDINGSTONE DIVERSION DAM
PUDDINGSTONE DAM
PUDDINGSTONE RESERVOIR
SANTA FE DAM
SIERRA MADRE DAM
BIG SANTA ANITA DAM
SAWPIT DAM
EATON WASH DAM
DEVILS GATE DAM
WHITTIER NARROWS DAM
SOUTH HILLS
LEGEND
LINES OF EQUAL FREE GROUND-WATER ELEVATION (INTERPOLATED BETWEEN WELLS) LOCALLY THE WATER MAY BE UNDER PRESSURE.
SAME AS ABOVE - LOCATION APPROXIMATE
RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
F FLOWING WELL
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED
NATURAL CHANNEL
CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED; WITH BOTTOM STABILIZERS.
SCALE IN MILES
118°12'
118°06'
118°00'
117°54'
117°48'
117°42'
34°12'
34°06'
34°00'
REVISIONS
MARK DATE DESCRIPTION
SEPT.1967 GENERAL (ON BASE)
AUG.1968 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND-WATER CONTOURS
APRIL 1968
DRAWN RHK
CHECKED
PRESENTED Charles C. Green
SUBMITTED C.J. Reinhard
APPROVED
DIVISION ENGINEER (WATER CONSERVATION)
SCALE GRAPHIC
DATE AUG. 1968
NO. 6-H85

MAP XVI


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
LA MERCED HILLS
SAN JOSE HILLS
PUENTE HILLS
SAN GABRIEL DAM
MORRIS DAM
BIG DALTON DAM
SAN DIMAS DAM
SAN ANTONIO DAM
THOMPSON CREEK DAM
LIVE OAK DAM
PUDDINGSTONE DIVERSION DAM
PUDDINGSTONE DAM
PUDDINGSTONE RESERVOIR
SANTA ANITA DAM
SIERRA MADRE DAM
SAWPIT DAM
EATON WASH DAM
SANTA FE DAM
WHITTIER NARROWS DAM
Sierra Madre
Monrovia
Arcadia
Duarte
Azusa
Glendora
San Dimas
Laverne
Claremont
Pomona
Baldwin Park
Covina
West Covina
El Monte
Alhambra
La Puente
Montebello
Whittier
Maywood
SCALE IN MILES
LEGEND
LINES OF EQUAL FREE GROUND-WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE.
SAME AS ABOVE - LOCATION APPROXIMATE
RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
FLOWING WELL
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED
NATURAL CHANNEL
CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED; WITH BOTTOM STABILIZERS.
REVISIONS
MARK | DATE | DESCRIPTION
SEPT.1967 | GENERAL (ON BASE)
AUG.1968 | GENERAL (ON BASE)
MAY 1970 | 260 GROUND-WATER ELEVATION CONTOUR REALIGNED
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND-WATER CONTOURS
NOVEMBER 1968
DRAWN RHR JCR
CHECKED William L. Young
PRESENTED Charles C. Green
SUBMITTED C.J. Reinhard
APPROVED Tom H. Staufer
DIVISION ENGINEER WATER CONSERVATION
SCALE GRAPHIC
DATE MAR. 1969
NO. 6-H86

MAP XVII



LEGEND

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

REVISIONS		
MARK	DATE	DESCRIPTION
	AUG. 1968	GENERAL (ON BASE)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

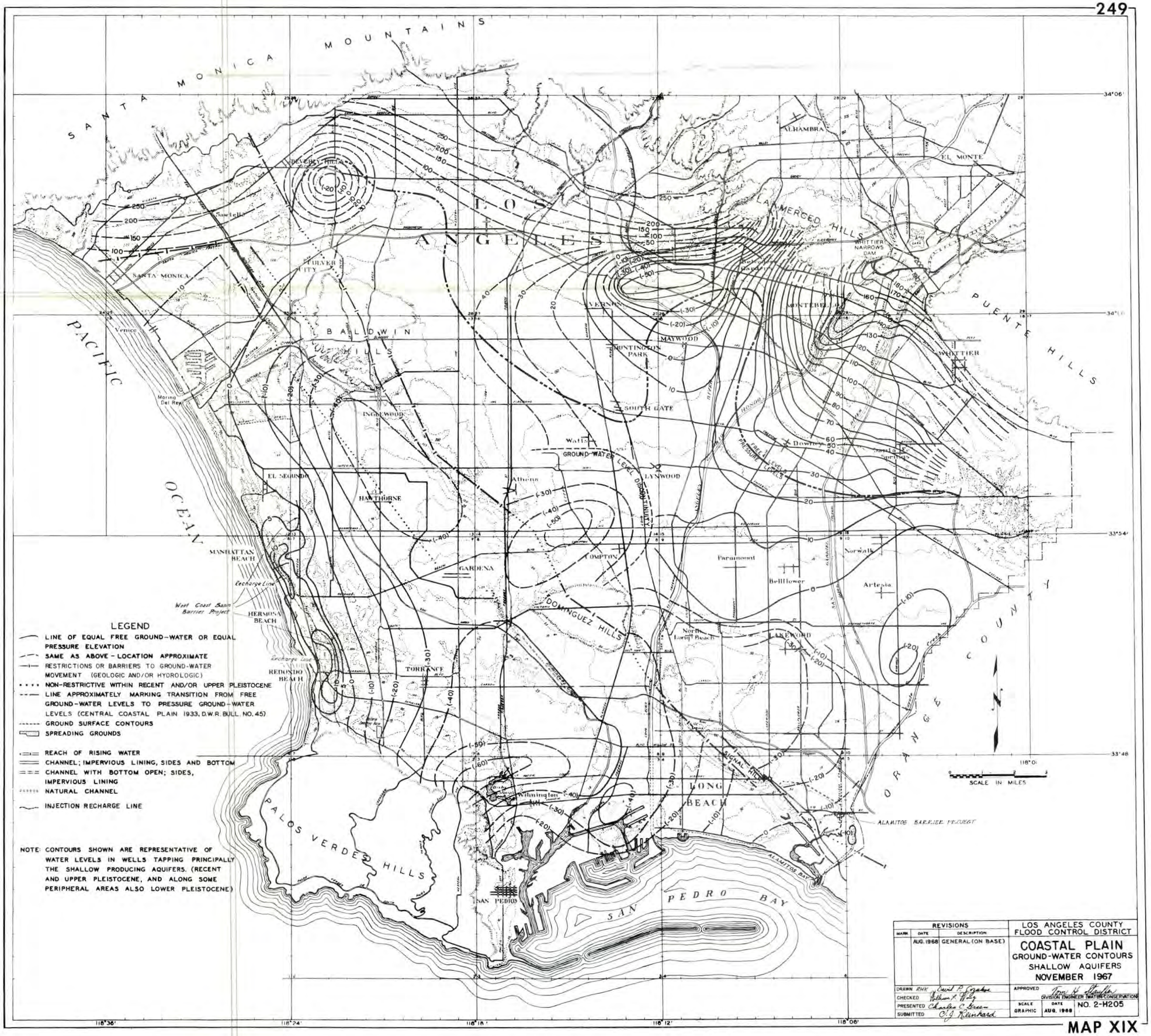
SAN GABRIEL VALLEY
GROUND-WATER CONTOURS

APRIL 1969

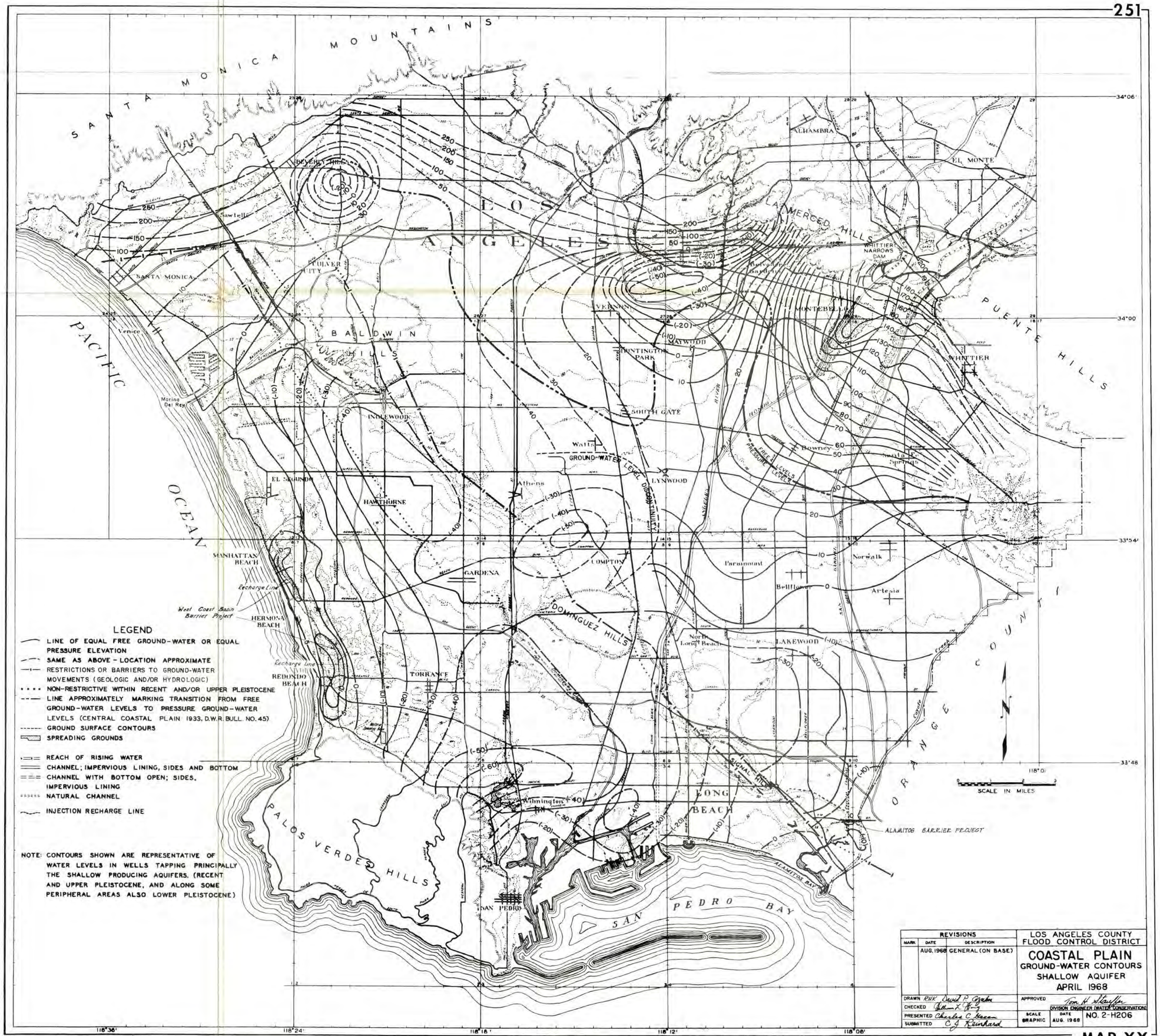
DRAWN	R.H.K. David P. Crabbe
CHECKED	William R. Mealy
PRESENTED	Charles C. Brown
SUBMITTED	C. J. Reinhard
APPROVED	Tom H. Stauffer, DIVISION ENGINEER (WATER CONSERVATION)
SCALE	GRAPHIC
DATE	AUG. 1969

NO. 6-H87

MAP XVIII


SANTA MONICA MOUNTAINS
LOS ANGELES
PACIFIC OCEAN
BALDWIN HILLS
LA MERCED HILLS
PUENTE HILLS
DOMINGUEZ HILLS
PALOS VERDES HILLS
SAN PEDRO BAY
ORANGE COUNTY
ALAMITOS BARRIER PROJECT
ALAMITOS BAY
SCALE IN MILES
LEGEND
LINE OF EQUAL FREE GROUND-WATER OR EQUAL PRESSURE ELEVATION
SAME AS ABOVE - LOCATION APPROXIMATE
RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
NON-RESTRICTIVE WITHIN RECENT AND/OR UPPER PLEISTOCENE
LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND-WATER LEVELS TO PRESSURE GROUND-WATER LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
INJECTION RECHARGE LINE
NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE SHALLOW PRODUCING AQUIFERS. (RECENT AND UPPER PLEISTOCENE, AND ALONG SOME PERIPHERAL AREAS ALSO LOWER PLEISTOCENE)
REVISIONS
MARK DATE DESCRIPTION
AUG. 1968 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND-WATER CONTOURS
SHALLOW AQUIFERS
NOVEMBER 1967
DRAWN RHK
CHECKED
PRESENTED
SUBMITTED
APPROVED
DIVISION ENGINEER (WATER CONSERVATION)
SCALE GRAPHIC
DATE AUG. 1968
NO. 2-H205

MAP XIX



LEGEND

- LINE OF EQUAL FREE GROUND-WATER OR EQUAL PRESSURE ELEVATION
- SAME AS ABOVE - LOCATION APPROXIMATE
- RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENTS (GEOLOGIC AND/OR HYDROLOGIC)
- NON-RESTRICTIVE WITHIN RECENT AND/OR UPPER PLEISTOCENE
- LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND-WATER LEVELS TO PRESSURE GROUND-WATER LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45)
- GROUND SURFACE CONTOURS
- SPREADING GROUNDS
- REACH OF RISING WATER
- CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
- NATURAL CHANNEL
- INJECTION RECHARGE LINE

NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE SHALLOW PRODUCING AQUIFERS. (RECENT AND UPPER PLEISTOCENE, AND ALONG SOME PERIPHERAL AREAS ALSO LOWER PLEISTOCENE)

REVISIONS		
MARK	DATE	DESCRIPTION
	AUG. 1968	GENERAL (ON BASE)

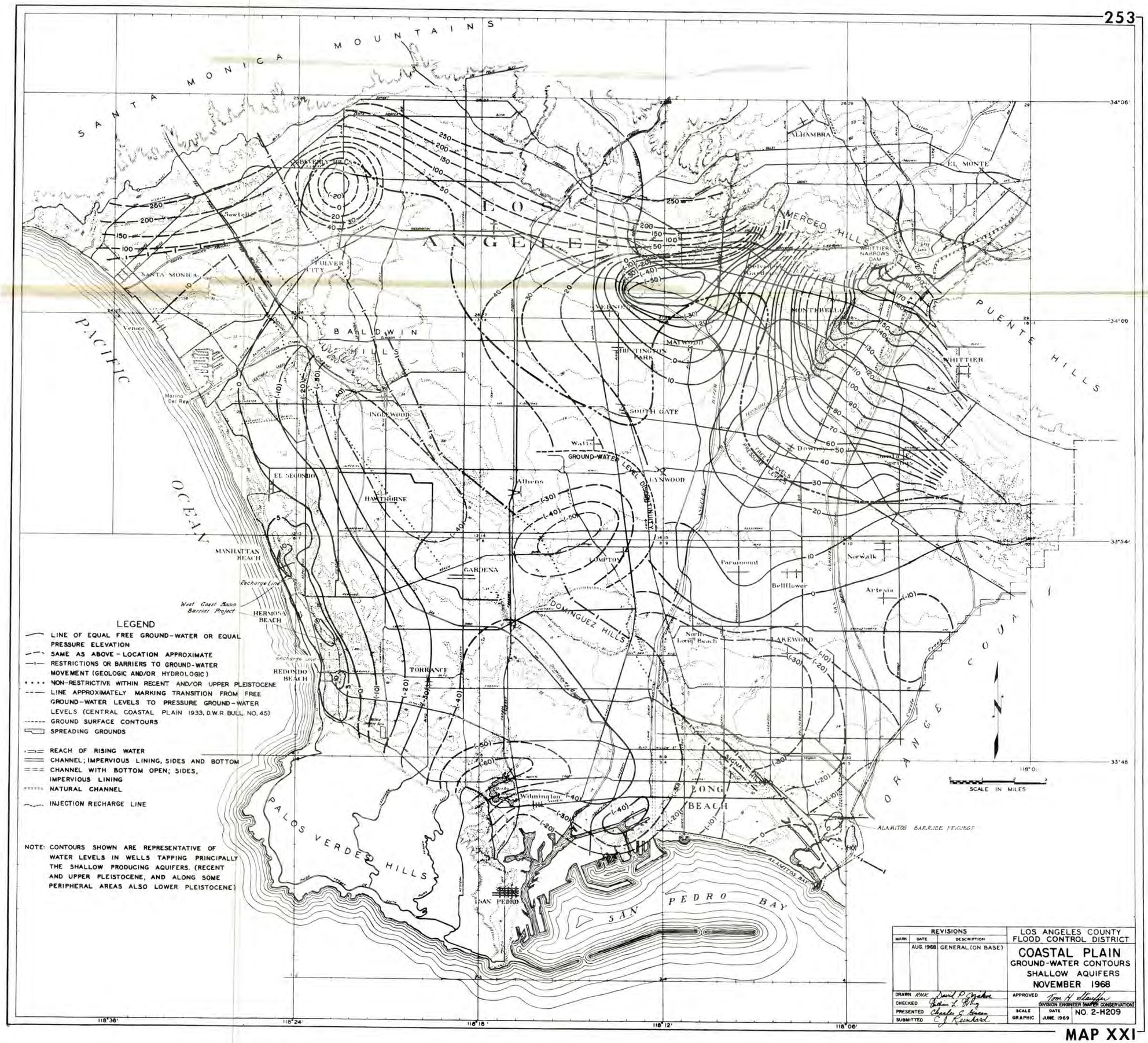
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

COASTAL PLAIN
GROUND-WATER CONTOURS
SHALLOW AQUIFER
APRIL 1968

DRAWN	RHK David P. Graber	APPROVED	Tom H. Stauffer
CHECKED	John K. King		DIVISION ENGINEER (WATER CONSERVATION)
PRESENTED	Charles C Eason	SCALE	DATE
SUBMITTED	O.J. Reinhard	GRAPHIC	AUG. 1968

NO. 2-H206

MAP XX



LEGEND

- LINE OF EQUAL FREE GROUND-WATER OR EQUAL PRESSURE ELEVATION
- SAME AS ABOVE - LOCATION APPROXIMATE
- RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
- NON-RESTRICTIVE WITHIN RECENT AND/OR UPPER PLEISTOCENE
- LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND-WATER LEVELS TO PRESSURE GROUND-WATER LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45)
- GROUND SURFACE CONTOURS
- SPREADING GROUNDS
- REACH OF RISING WATER
- CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
- NATURAL CHANNEL
- INJECTION RECHARGE LINE

NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE SHALLOW PRODUCING AQUIFERS. (RECENT AND UPPER PLEISTOCENE, AND ALONG SOME PERIPHERAL AREAS ALSO LOWER PLEISTOCENE)

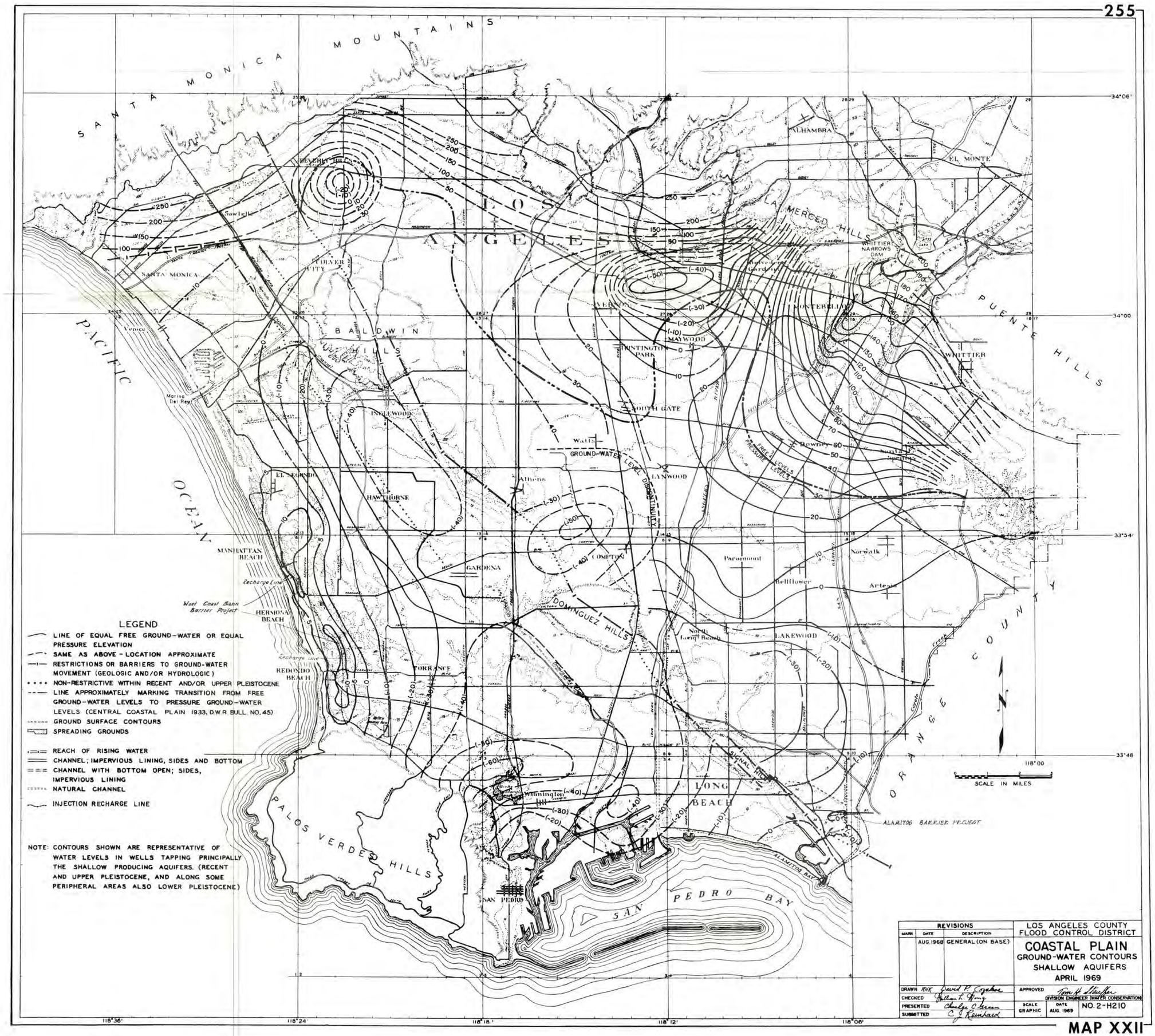
REVISIONS		
MARK	DATE	DESCRIPTION
	AUG. 1968	GENERAL (ON BASE)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

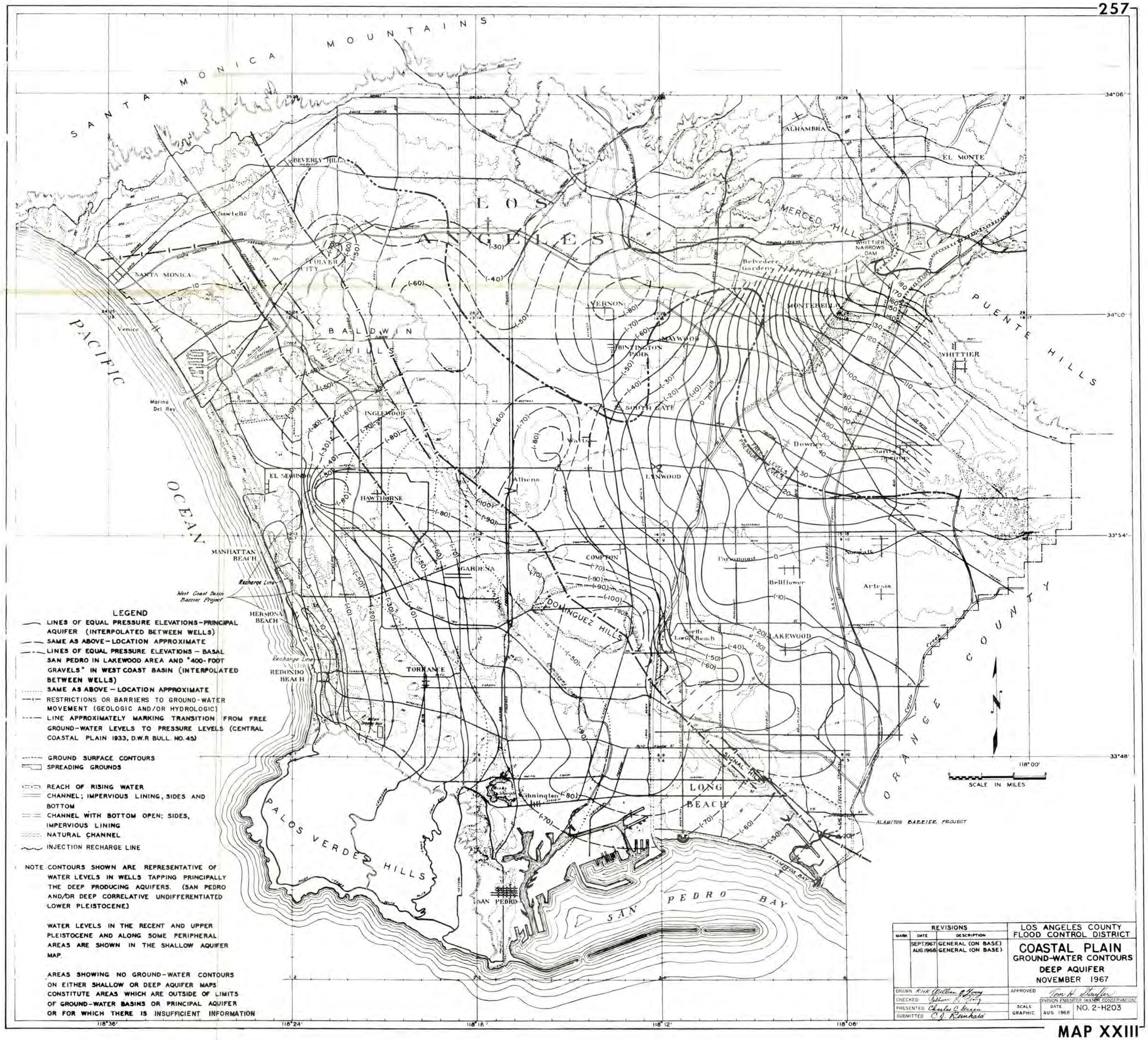
COASTAL PLAIN
GROUND-WATER CONTOURS
SHALLOW AQUIFERS
NOVEMBER 1968

DRAWN	RHK	APPROVED	Tom A. Gauthier, DIVISION ENGINEER (WATER CONSERVATION)
CHECKED			
PRESENTED	Charles E. Green	SCALE	GRAPHIC
SUBMITTED	C. J. Reinhard	DATE	JUNE 1969
		NO.	2-H209

MAP XXI


SANTA MONICA MOUNTAINS
LOS ANGELES
LA MERCED HILLS
PUENTE HILLS
BALDWIN HILLS
PACIFIC OCEAN
DOMINGUEZ HILLS
PALOS VERDES HILLS
SAN PEDRO BAY
ORANGE COUNTY
ALAMITOS BARRIER PROJECT
GROUND-WATER LEVEL DISCONTINUITY
FREE LEVELS
PRESSURE LEVELS
SCALE IN MILES
LEGEND
LINE OF EQUAL FREE GROUND-WATER OR EQUAL PRESSURE ELEVATION
SAME AS ABOVE - LOCATION APPROXIMATE
RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
NON-RESTRICTIVE WITHIN RECENT AND/OR UPPER PLEISTOCENE
LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND-WATER LEVELS TO PRESSURE GROUND-WATER LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
INJECTION RECHARGE LINE
NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE SHALLOW PRODUCING AQUIFERS. (RECENT AND UPPER PLEISTOCENE, AND ALONG SOME PERIPHERAL AREAS ALSO LOWER PLEISTOCENE)
REVISIONS
MARK DATE DESCRIPTION
AUG. 1968 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND-WATER CONTOURS
SHALLOW AQUIFERS
APRIL 1969
DRAWN RHK David P. Cozakos
CHECKED William L. Wong
PRESENTED Charles C. Green
SUBMITTED C. J. Reinhard
APPROVED Tom H. Stauffer
DIVISION ENGINEER (WATER CONSERVATION)
SCALE GRAPHIC
DATE AUG. 1969
NO. 2-H210

MAP XXII



LEGEND

- LINES OF EQUAL PRESSURE ELEVATIONS—PRINCIPAL AQUIFER (INTERPOLATED BETWEEN WELLS)
- SAME AS ABOVE—LOCATION APPROXIMATE
- LINES OF EQUAL PRESSURE ELEVATIONS — BASAL SAN PEDRO IN LAKEWOOD AREA AND "400-FOOT GRAVELS" IN WEST COAST BASIN (INTERPOLATED BETWEEN WELLS)
- SAME AS ABOVE — LOCATION APPROXIMATE
- RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
- LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND-WATER LEVELS TO PRESSURE LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R BULL. NO. 45)
- GROUND SURFACE CONTOURS
- SPREADING GROUNDS
- REACH OF RISING WATER
- CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
- NATURAL CHANNEL
- INJECTION RECHARGE LINE

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

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

AREAS SHOWING NO GROUND-WATER CONTOURS ON EITHER SHALLOW OR DEEP AQUIFER MAPS CONSTITUTE AREAS WHICH ARE OUTSIDE OF LIMITS OF GROUND-WATER BASINS OR PRINCIPAL AQUIFER OR FOR WHICH THERE IS INSUFFICIENT INFORMATION

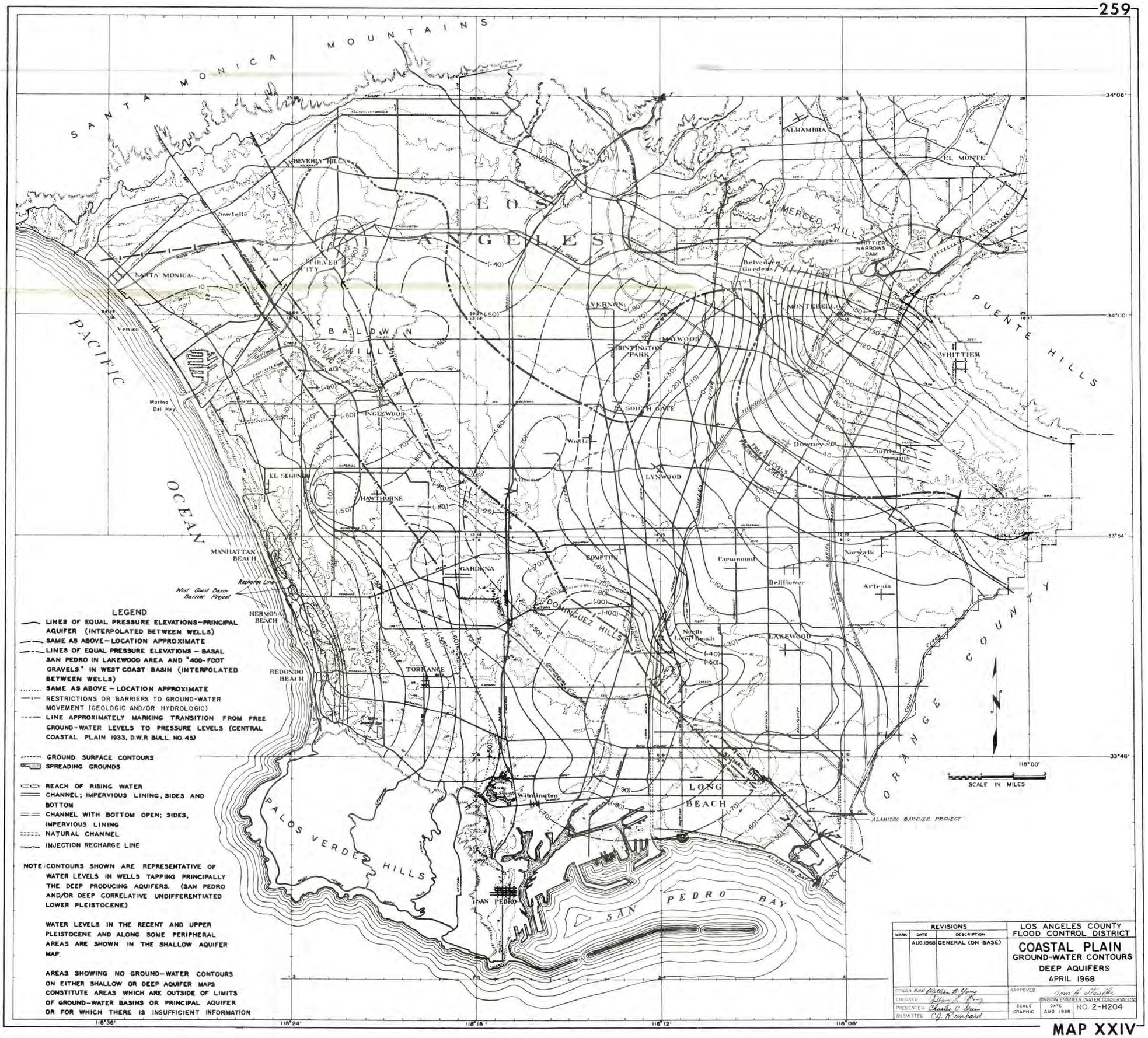
REVISIONS		
MARK	DATE	DESCRIPTION
	SEPT. 1967	GENERAL (ON BASE)
	AUG. 1968	GENERAL (ON BASE)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

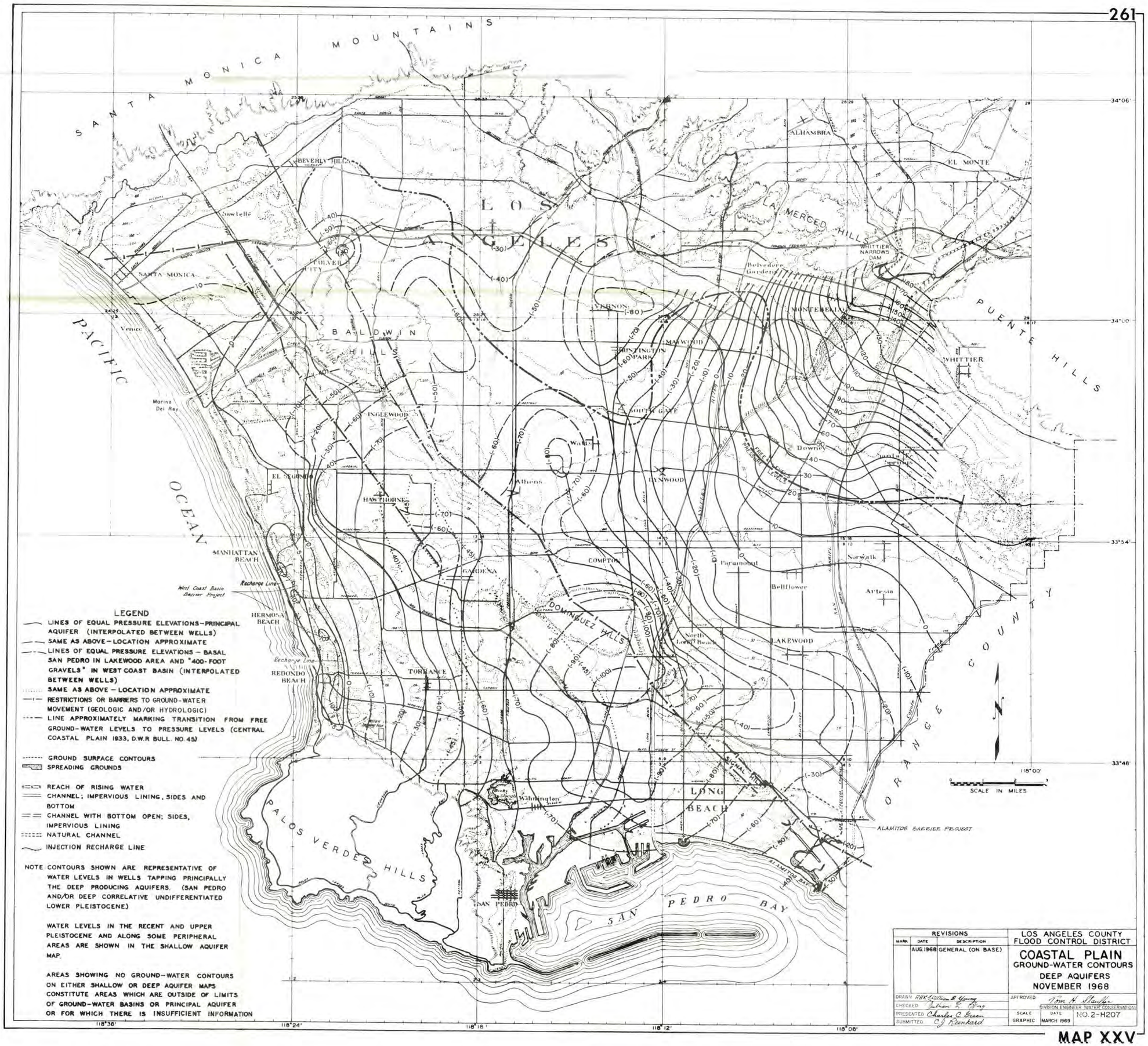
COASTAL PLAIN
GROUND-WATER CONTOURS
DEEP AQUIFER
NOVEMBER 1967

DRAWN	R.H.K.	APPROVED	Tom H. Stauffer
CHECKED	William B. Young	DIVISION ENGINEER (WATER CONSERVATION)	
PRESENTED	Charles C. Brazen	SCALE	GRAPHIC
SUBMITTED	C.J. Reinhold	DATE	AUG. 1968
		NO.	2-H203

MAP XXIII


SANTA MONICA MOUNTAINS
LOS ANGELES
BALDWIN HILLS
LA MERCED HILLS
PUENTE HILLS
DOMINGUEZ HILLS
PALOS VERDES HILLS
PACIFIC OCEAN
ORANGE COUNTY
SAN PEDRO BAY
BEVERLY HILLS
SANTA MONICA
Venice
Marina Del Rey
EL SEGUNDO
HAWTHORNE
INGLEWOOD
MANHATTAN BEACH
HERMOSA BEACH
REDONDO BEACH
TORRANCE
GARDENA
COMPTON
LYNWOOD
SOUTH GATE
HUNTINGTON PARK
MAYWOOD
VERNON
MONTEBELLO
WHITTIER
EL MONTE
ALHAMBRA
Belvedere Gardens
WHITTIER NARROWS DAM
Downey
Santa Fe Springs
Norwalk
Artesia
Bellflower
Paramount
LAKEWOOD
North Long Beach
LONG BEACH
Wilmington
SAN PEDRO
Recharge Line
West Coast Basin Barrier Project
ALAMITOS BARRIER PROJECT
ALAMITOS BAY
SCALE IN MILES
34°06'
34°00'
33°54'
33°48'
118°00'
118°36'
118°24'
118°18'
118°12'
118°06'
LEGEND
LINES OF EQUAL PRESSURE ELEVATIONS–PRINCIPAL AQUIFER (INTERPOLATED BETWEEN WELLS)
SAME AS ABOVE–LOCATION APPROXIMATE
LINES OF EQUAL PRESSURE ELEVATIONS – BASAL SAN PEDRO IN LAKEWOOD AREA AND "400-FOOT GRAVELS" IN WEST COAST BASIN (INTERPOLATED BETWEEN WELLS)
SAME AS ABOVE – LOCATION APPROXIMATE
RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND-WATER LEVELS TO PRESSURE LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R BULL. NO. 45)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
INJECTION RECHARGE LINE
NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE DEEP PRODUCING AQUIFERS. (SAN PEDRO AND/OR DEEP CORRELATIVE UNDIFFERENTIATED LOWER PLEISTOCENE)
WATER LEVELS IN THE RECENT AND UPPER PLEISTOCENE AND ALONG SOME PERIPHERAL AREAS ARE SHOWN IN THE SHALLOW AQUIFER MAP.
AREAS SHOWING NO GROUND-WATER CONTOURS ON EITHER SHALLOW OR DEEP AQUIFER MAPS CONSTITUTE AREAS WHICH ARE OUTSIDE OF LIMITS OF GROUND-WATER BASINS OR PRINCIPAL AQUIFER OR FOR WHICH THERE IS INSUFFICIENT INFORMATION
REVISIONS
MARK DATE DESCRIPTION
AUG. 1968 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND-WATER CONTOURS
DEEP AQUIFERS
APRIL 1968
DRAWN RHK William B. Young
CHECKED William L. Young
PRESENTED Charles C. Green
SUBMITTED C.J. Reinhard
APPROVED Tom H. Stauffer
DIVISION ENGINEER (WATER CONSERVATION)
SCALE GRAPHIC
DATE AUG 1968
NO. 2-H204

MAP XXIV



LEGEND

- LINES OF EQUAL PRESSURE ELEVATIONS–PRINCIPAL AQUIFER (INTERPOLATED BETWEEN WELLS)
- SAME AS ABOVE–LOCATION APPROXIMATE
- LINES OF EQUAL PRESSURE ELEVATIONS – BASAL SAN PEDRO IN LAKEWOOD AREA AND "400-FOOT GRAVELS" IN WEST COAST BASIN (INTERPOLATED BETWEEN WELLS)
- SAME AS ABOVE – LOCATION APPROXIMATE
- RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
- LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND-WATER LEVELS TO PRESSURE LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R BULL. NO. 45)
- GROUND SURFACE CONTOURS
- SPREADING GROUNDS
- REACH OF RISING WATER
- CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
- NATURAL CHANNEL
- INJECTION RECHARGE LINE

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

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

AREAS SHOWING NO GROUND-WATER CONTOURS ON EITHER SHALLOW OR DEEP AQUIFER MAPS CONSTITUTE AREAS WHICH ARE OUTSIDE OF LIMITS OF GROUND-WATER BASINS OR PRINCIPAL AQUIFER OR FOR WHICH THERE IS INSUFFICIENT INFORMATION

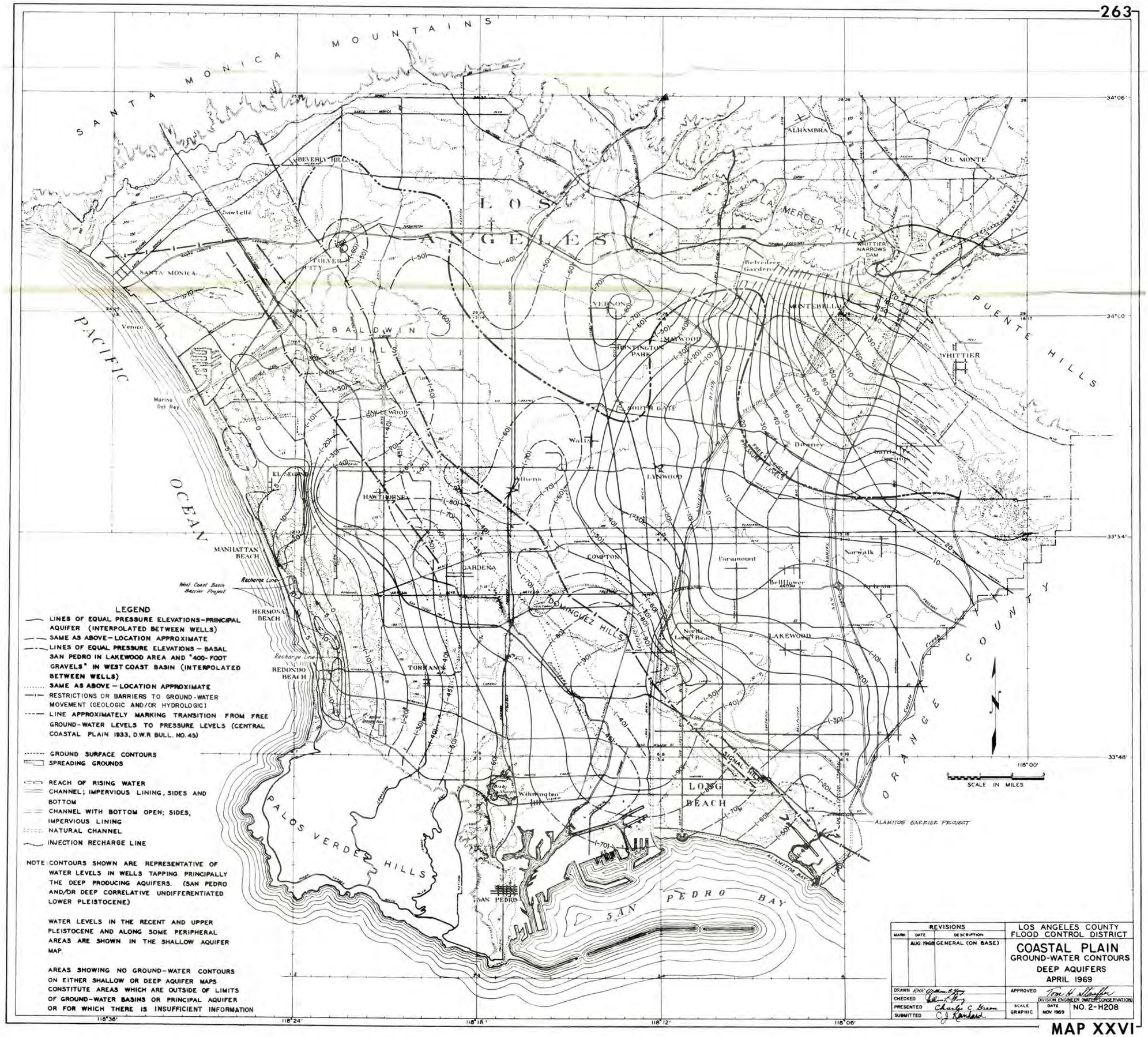
REVISIONS		
MARK	DATE	DESCRIPTION
	AUG. 1968	GENERAL (ON BASE)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

COASTAL PLAIN
GROUND-WATER CONTOURS
DEEP AQUIFERS
NOVEMBER 1968

DRAWN	PHK/Clifton B. Young	APPROVED	Tom H. Shaffer
CHECKED	Julian S. Ing	DIVISION ENGINEER WATER CONSERVATION	
PRESENTED	Charles A. Green	SCALE	
SUBMITTED	C.J. Reinhard	DATE	MARCH 1969
		GRAPHIC	NO. 2-H207

MAP XXV



LEGEND

- LINES OF EQUAL PRESSURE ELEVATIONS–PRINCIPAL AQUIFER (INTERPOLATED BETWEEN WELLS)
- SAME AS ABOVE–LOCATION APPROXIMATE
- LINES OF EQUAL PRESSURE ELEVATIONS – BASAL SAN PEDRO IN LAKEWOOD AREA AND "400-FOOT GRAVELS" IN WEST COAST BASIN (INTERPOLATED BETWEEN WELLS)
- SAME AS ABOVE – LOCATION APPROXIMATE
- RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
- LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND-WATER LEVELS TO PRESSURE LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R BULL. NO. 45)
- GROUND SURFACE CONTOURS
- SPREADING GROUNDS
- REACH OF RISING WATER
- CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
- NATURAL CHANNEL
- INJECTION RECHARGE LINE

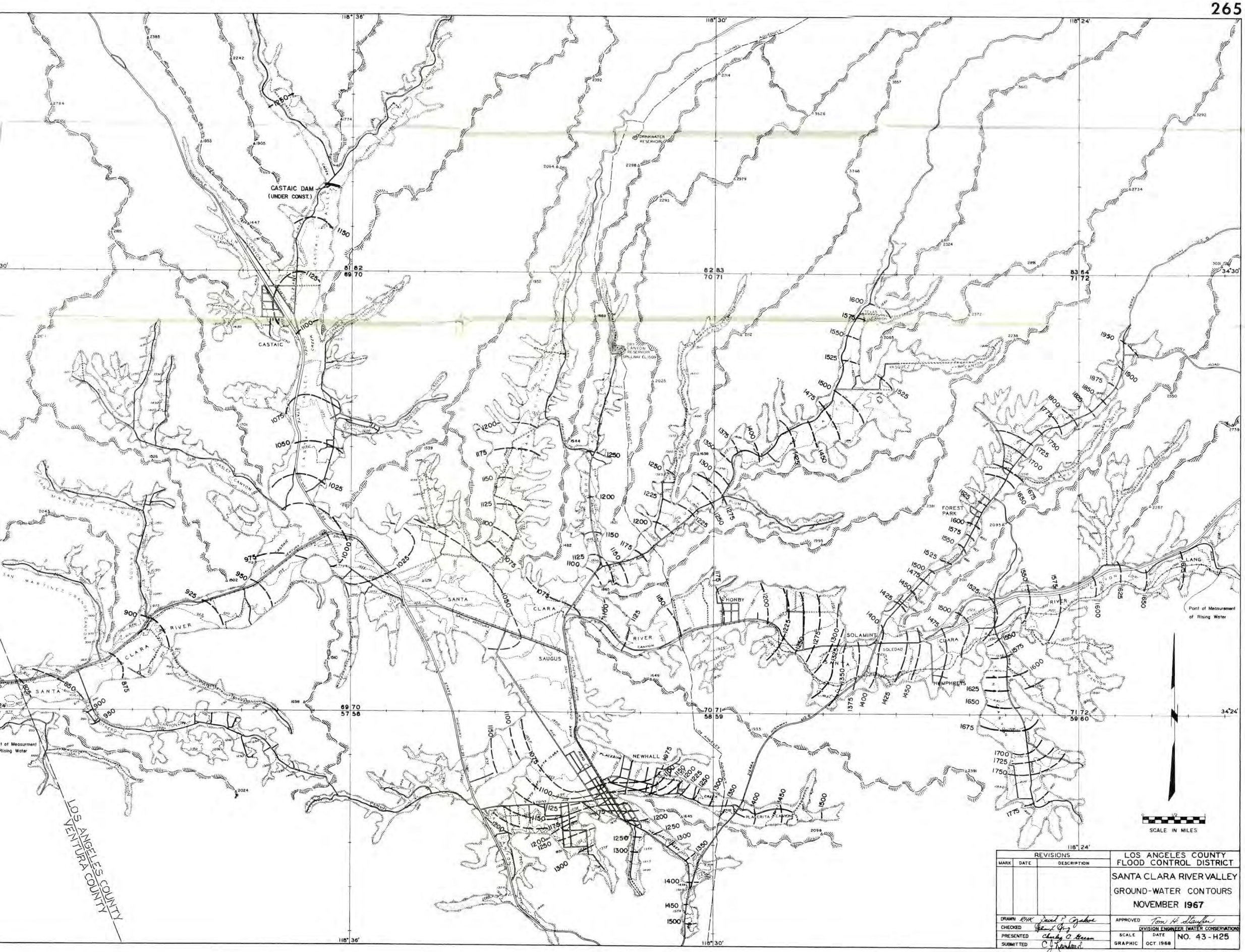
NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE DEEP PRODUCING AQUIFERS. (SAN PEDRO AND/OR DEEP CORRELATIVE UNDIFFERENTIATED LOWER PLEISTOCENE)

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

AREAS SHOWING NO GROUND-WATER CONTOURS ON EITHER SHALLOW OR DEEP AQUIFER MAPS CONSTITUTE AREAS WHICH ARE OUTSIDE OF LIMITS OF GROUND-WATER BASINS OR PRINCIPAL AQUIFER OR FOR WHICH THERE IS INSUFFICIENT INFORMATION

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	
	AUG 1968	GENERAL (ON BASE)	COASTAL PLAIN GROUND-WATER CONTOURS DEEP AQUIFERS APRIL 1969
DRAWN	RHK		APPROVED Tom H. Stauffer DIVISION ENGINEER (WATER CONSERVATION)
CHECKED			
PRESENTED	Charles C. Brown		SCALE GRAPHIC
SUBMITTED	C.J. Kapiloff		DATE NOV 1969
			NO. 2-H208

MAP XXVI



REVISIONS		
MARK	DATE	DESCRIPTION

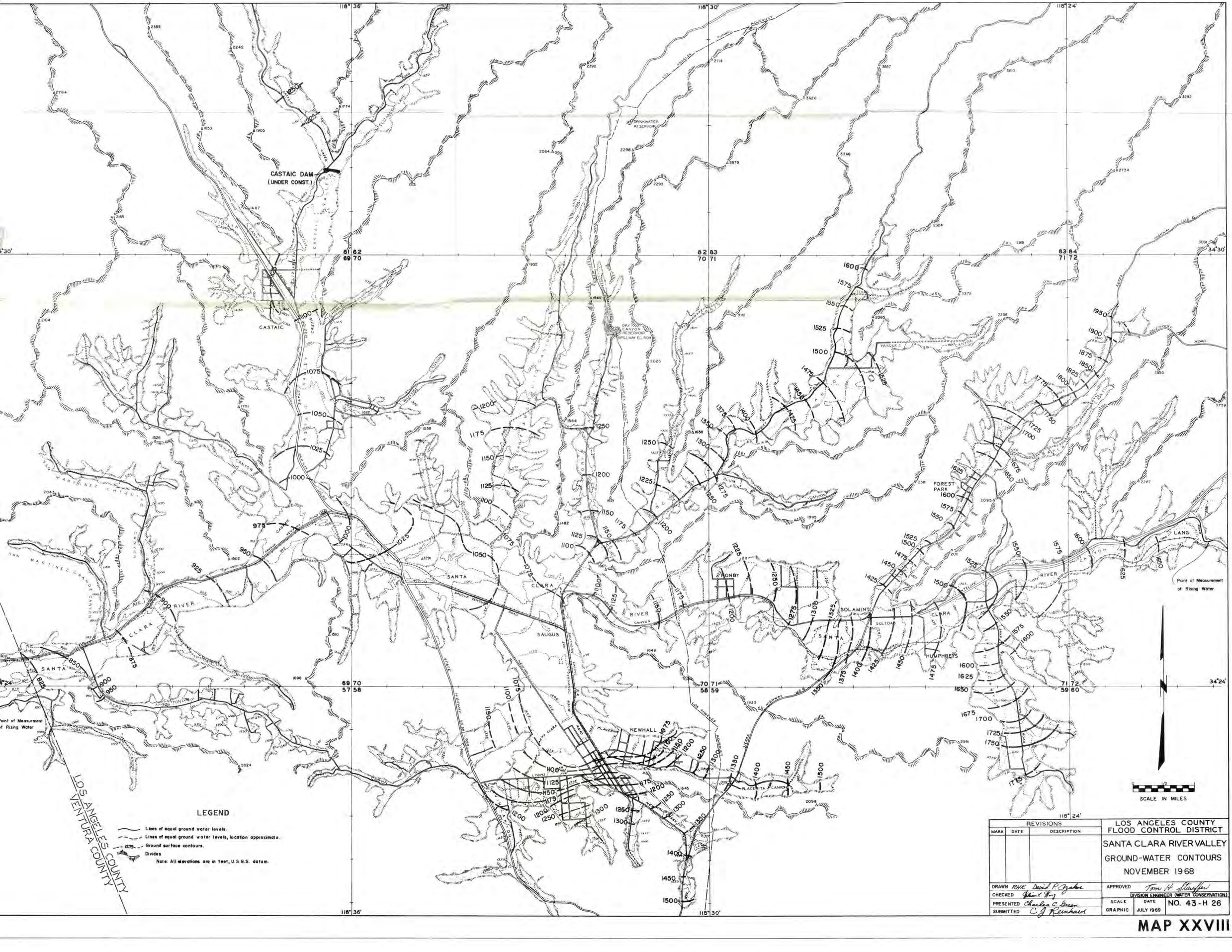
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

SANTA CLARA RIVER VALLEY
GROUND-WATER CONTOURS
NOVEMBER 1967

DRAWN	RHK	APPROVED	Tom A. Slaughter
CHECKED			DIVISION ENGINEER (WATER CONSERVATION)
PRESENTED	Charles C. Green	SCALE	DATE
SUBMITTED	C. J. Kapiloff	GRAPHIC	OCT. 1968

NO. 43-H25

MAP XXVII


CASTAIC DAM
(UNDER CONST.)
CASTAIC
DRINKWATER RESERVOIR
DRY CANYON RESERVOIR
SPILLWAY EL.1509
SANTA CLARA RIVER
SAUGUS
NEWHALL
SOLAMINT
HUMPHREYS
FOREST PARK
LANG
Point of Measurement of Rising Water
LOS ANGELES COUNTY
VENTURA COUNTY
SCALE IN MILES
LEGEND
Lines of equal ground water levels.
Lines of equal ground water levels, location approximate.
Ground surface contours.
Divides
Note: All elevations are in feet, U.S.G.S. datum.
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
SANTA CLARA RIVER VALLEY
GROUND-WATER CONTOURS
NOVEMBER 1968
DRAWN RHK David P. Ozakos
CHECKED
PRESENTED Charles C. Green
SUBMITTED C. J. Reinhard
APPROVED Tom H. Stauffer
DIVISION ENGINEER (WATER CONSERVATION)
SCALE
GRAPHIC
DATE
JULY 1969
NO. 43-H 26

MAP XXVIII

LEGEND

BOUNDARIES OF GROUND-WATER SUB-UNITS

HYDROLOGIC DISCONTINUITY

2400 — LINE OF EQUAL ELEVATION OF GROUND WATER

--2400-- SAME AS ABOVE - LOCATION APPROXIMATE

2300 — SURFACE CONTOURS - U.S.G.S. DATUM

LINES OF EQUAL ELEVATION OF GROUND WATER — SPRING 1968 —

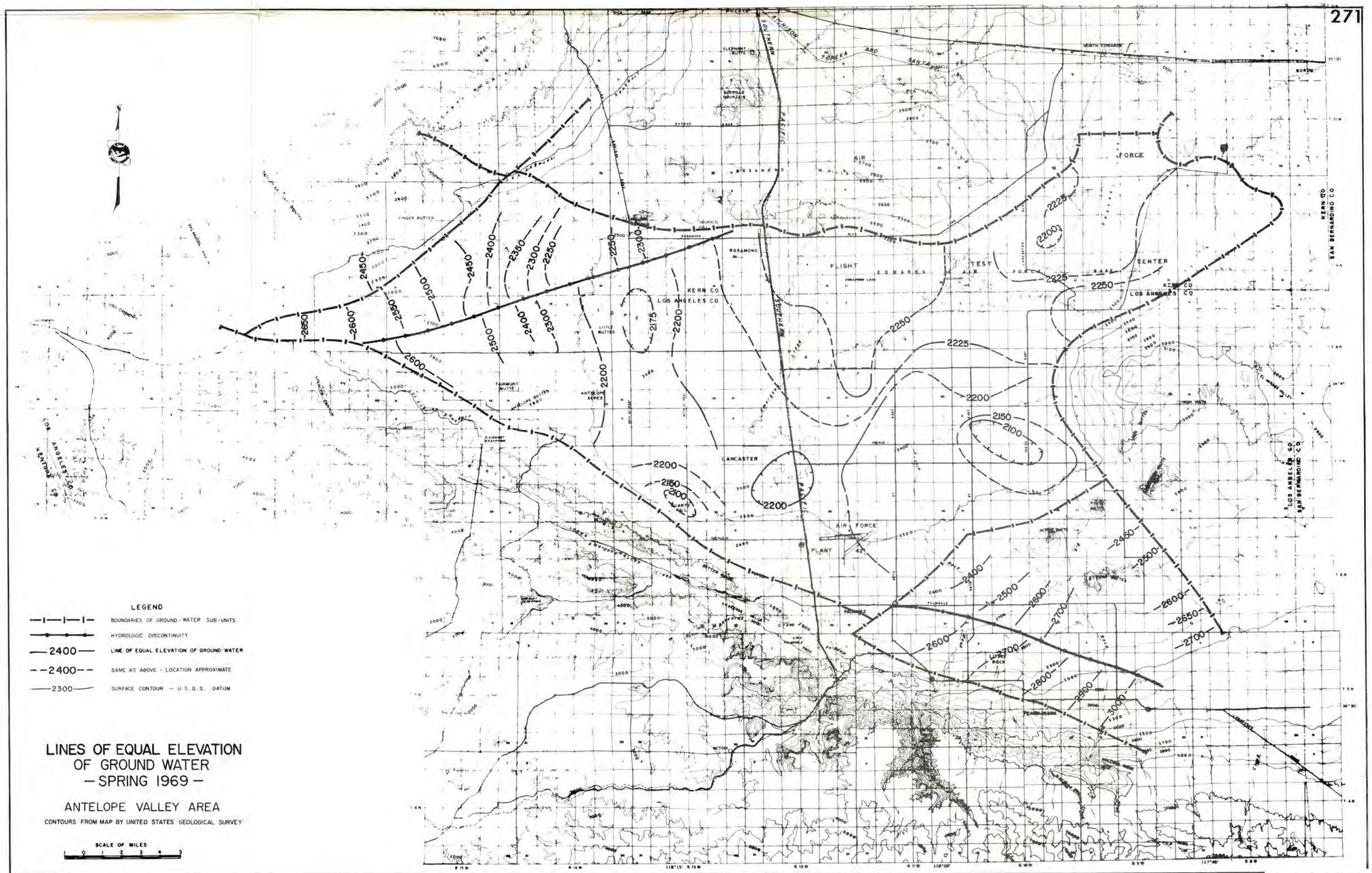
ANTELOPE VALLEY AREA

CONTOURS FROM MAP BY UNITED STATES GEOLOGICAL SURVEY

SCALE OF MILES

0 1 2 3 4

MAP XXIX


LEGEND
BOUNDARIES OF GROUND-WATER SUB-UNITS
HYDROLOGIC DISCONTINUITY
2400
LINE OF EQUAL ELEVATION OF GROUND WATER
2400
SAME AS ABOVE - LOCATION APPROXIMATE
2300
SURFACE CONTOUR - U.S.G.S. DATUM
LINES OF EQUAL ELEVATION
OF GROUND WATER
- SPRING 1969 -
ANTELOPE VALLEY AREA
CONTOURS FROM MAP BY UNITED STATES GEOLOGICAL SURVEY
SCALE OF MILES
0 1 2 3 4 5
LANCASTER
ROSAMOND
PALMDALE
EDWARDS AIR FORCE BASE
FLIGHT TEST CENTER
AIR FORCE PLANT 42
ELEPHANT BUTTE
FINGER BUTTES
LITTLE BUTTES
FAIRMONT BUTTE
ANTELOPE BUTTES
ANTELOPE ACRES
QUARTZ HILL
LOS ANGELES CO
KERN CO
SAN BERNARDINO CO
SOUTHERN PACIFIC
ATCHISON TOPEKA AND SANTA FE
NORTH EDWARDS
BORON

MAP XXX