LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDROGRAPHIC DEPARTMENT

RUNOFF REPORT--SEASON 1927-28

E. C. EATON, Chief Engineer
March 1, 1929

RUNOFF REPORT SEASON 1927-1928

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDROGRAPHIC DEPARTMENT

In April 1927, Mr. E. C. Eaton, Chief Engineer of the Los Angeles County Flood Control District created the Hydrographic Department, with Francis N. Hay as Chief Hydrographer. One of the duties of this department being the collection and compilation of stream flow data in Los Angeles County.

Construction work on the installation of stream flow measurement stations on the various streams and channels was started as soon as possible after this date.

With the cooperation of the local Water Resources Branch of the United States Geological Survey, Mr. F. C. Ebert Engineer, in charge and Mr. W. D. McClashan, District Engineer for California U.S.G.S. Water Resources Branch current meters and automatic water stage recorders were purchased and locations established for the installation of the stream flow measurement stations.

Stream flow measurement stations were located in the mountain canyons below the Flood Control Dams to measure the discharge from the dams. Installation of gaging stations throughout the county has continued until at the present date there are 27 stations constructed and in operation, equipped with automatic gage height recorders, 13 of which are of the continuous record type and 14 of the drum or weekly record type.

The District also operates 5 stations in cooperation with the U.S.G.S. Water Resources Branch and 8 stations formerly operated by the City of Pasadena.

This makes a total of 32 stations equipped with automatic gage height registering devices in operation, 10 of which have been installed since September 30, 1928, and are thus not included in the following tabulations.

60 Staff gage installations were made on various streams and washes where the gage height could be read during storms.

More than 300 stream flow measurements were made at various locations on streams and washes in Los Angeles County by the Flood Control District hydrographers during the 1927-28 run off season.

The stream flow measurements, rating tables used in computing the runoff, records of corrected mean daily gage heights and mean daily discharge in second feet are included in the tabulation herewith.

A tabulation showing the monthly and seasonal flow in acre feet at each station is also appended.

Following herewith is a list of stream measurement stations operated by the Hydrographic Department of the Los Angeles County Flood Control District in Los Angeles County.

RUNOFF REPORT - SEASON 1927-1928

I N D E X

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

STREAM GAGING STATIONS AND STAFF GAGES

	No.	Name	Gage Type	Location
	# 1	Bull Canyon W.Fork	Staff	Devonshire Ave.
*	# 2	Brown Canyon	Rational	Devonshire Ave.
	# 3	Calabasas Creek	Staff	Shoup Ave.
	# 4	Otis Creek	Staff	Ventura Blvd.
*	# 5	Los Angeles River	Rational	Van Nuys Blvd.
	# 6	Los Angeles River	Staff	Whitsett St.
	# 7	Los Angeles River	Au	Universal City.
	# 8	Verdugo Wash	Staff	San Fernando Road.
*	# 9	Verdugo Wash	Rational	Glenn Oaks Blvd.
	# 10	San Fernando Creek	Staff	Devonshire Ave.
	# 11	Big Tujunga East .SPRR.	Staff	S.P.R.R. Bridge
	# 12	Big Tujunga Middle	Staff	S.P.R.R. Bridge
	# 13	Big Tujunga West	Staff	S.P.R.R. Bridge
	# 14	Pacoima Wash	Staff	Below Van Nuys Blvd.
	# 15	Pacoima Wash	Staff	At Van Nuys Blvd.
*	# 16	Pacoima Wash	Rational	Parthenia Ave.
	# 17	Pacoima Wash	Staff	San Fernando Road.
	# 18	Pacoima Wash	Staff	Mulholland Ave.
*	# 19	Little Tujunga	Rational	State Highway
	# 20	Big Tujunga	Staff	Mulholland Ave.
	# 21	Big Santa Anita	Au	Below Dam
	# 22	Monrovia Canyon	Au	Above Sawpit Creek
	# 23	West Fork San Gabriel	Staff	One mile above narrows.
	# 24	West Fork San Gabriel	Staff	At Narrows
	# 25	Bear Creek	Staff	Above Mouth
	# 26	North Fork San Gabriel	Staff	At Narrows.
	# 27	East Fork San Gabriel	Staff	Below Cattle Canyon.
	# 28	San Gabriel River	Au	Edison Intake
	# 29	San Gabriel River	Staff	Hoag Ranch
	# 30	Little Dalton	Staff	Lorraine St.
	# 31	Live Oak Creek	Au	Below Dam.
	# 32	Thompson Creek	Staff	Below Dam.
	# 33	San Antonio Spreading	Rational	Mouth of Canyon
	# 34	Los Angeles River	Rational	Stewart & Gray Road
	# 35	Los Angeles River	Staff	Norton Ave.
*	# 36	Los Angeles River	Rational	Willow St. Long Beach
	# 37	Compton Creek	Au	Rosecrans Road, Compton
	# 38	Ballona Creek	Au	Centinela Blvd. Culver City
	# 39	Los Angeles River	Staff	Artesia St.
	# 40	Puddingstone Creek	Au	Below Dam.
	# 41	Coyote Creek.	Staff	P.E.Bridge, near Artesia.
	# 42	East San Gabriel River	Rational	Spring St. Long Beach.
	# 43	Upper Sycamore Drain	Au	Chevy Chase, Glendale.
	# 44	Lower Sycamore Drain	Au	Adams Square, Glendale.
	# 45	Rio Hondo River	Rational	Stewart & Gray Road.

* Recorder installed since Sept. 30, 1928.

	No.	Name	Gage Type	Location
	# 46	Nigger Slough	Staff	Wilmington Road
*	# 47	Walnut Creek	Rational	Covina Blvd.
*	# 48	San Jose Creek	Au	Workman Mill Road.
	# 49	May Canyon	Staff	Near Roxford Ave.
	# 50	Wilson Canyon	Staff	Near County Hospital.
	# 51	Hansen Canyon	Staff	Near Roxford Ave.
	# 52	Brand Canyon	Staff	Above Mountain St.
	# 53	Dume Creek	Staff	State Highway Bridge.
	# 54	Topanga Creek	Staff	Highway Bridge 2 miles above mouth.
	# 55	Santa Monica Canyon	Staff.	No. Channel Road.
	# 56	Mandeville Canyon	Staff	Above Administration Bdg.
	# 57	Los Angeles River	Staff	Dayton Avenue.
	# 58	Arroyo Seco	Staff	Avenue # 26
	# 59	Triunfo Creek	Staff	Craga Country Club Dam.
	# 60	Las Virgines Creek	Staff	Colyear Dam.
	# 61	Cold Creek	Staff	Crater Camp.
	# 62	Curson Canyon	Rational	Upper Curson Canyon.
	# 63	San Gabriel River	Au	Whittier Bridge
	# 64	Rio Hondo River	Au	Mission Bridge.
*	# 65	Little Dalton Creek	Rational	Above Mouth
	# 66	Pasadena Outfall Sewer	Staff	Near Rio Hondo
*	# 67	Little Santa Anita	Gurley	Below Dam
	# 68	Spannish Canyon	Staff	At Mouth
	# 69	Sawpit Wash	Staff	Fifty feet above Foothill
	# 70	Sawpit Wash	Staff	Peck Road.
	# 71	Santa Anita Wash	Staff	Foothill Blvd.
	# 72	Santa Anita Wash	Staff	$\frac{1}{4}$ mile below Azusa Road
	# 73	Little Santa Anita	Staff	Double Drive Arcadia
	# 74	Eaton Wash	Staff	Foothill Blvd.
	# 75	Storm Drain	Staff	Between Santa Anita & Sawpit Creeks.
	# 76	West Fork San Gabriel	Staff	Above Bear Creek
	# 77	West Fork San Gabriel	Staff	Above North Fork
	# 78	East Fork San Gabriel	Staff	Above Damsite
	# 79	Brown's Gulch	Staff	Above Mouth
	# 80	Polecat Gulch	Staff	Above Mouth
	# 81	Alhambra Wash	Staff	Garvey Ave.
	# 82	Rubio Wash	Staff	Live Oak Ave.
	# 83	Rio Hondo Slough	Staff	San Gabriel Blvd.
	# 84	Cate Ditch	Staff	East of San Gabriel Blvd.
	# 85	Standifer Ditch	Staff	At head waste
	# 86	San Gabriel River	Staff	In sluice. Whittier Narrows
	# 87	Banta Ditch	Staff	At head of pipe line.
	# 88	Sheep Creek	Staff	Below Temple Diversion
	# 89	Rincon Ditch	Staff	New Diversion
	# 90	Malibu Creek	Staff	Malibu Gorge

* Recorder installed since Sept 30, 1928.

COOPERATIVE STREAM GAGING STATIONS

UNITED STATES GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

No.	Name	Gage Type	Location
U 5	Sawpit Creek	Stevens Automatic Recorder	Near mouth of canyon below dam.
U 10	San Dimas Creek	Stevens Automatic Recorder	Near mouth of canyon below dam.
U 13	Pacoima Creek	Au Automatic Recorder	Near mouth of canyon below dam.

PASADENA WATER DEPARTMENT

P 1	West Fork, San Gabriel River	Stevens Automatic Recorder	Near Camp Rincon
P 2	East Fork, San Gabriel River	Stevens Automatic Recorder	Above Cattle Canyon near Camp Bonita

SAN GABRIEL RIVER - EDISON INTAKE.

Location:
In S.E.¼ Sec. 31, T. 2 N. R.9 W.
About 500 feet above diversion dam and intake of Southern California Edison Co's conduit. About 8 miles north of Azusa, Los Angeles County, California, and 2 miles below site of Los Angeles County Flood Control Dam at same location as U.S.G.S. gage washed out in flood of Feb. 1914.

Drainage Area:
201.97 sq. miles. Elevation about 1200 ft. above sea level.

Installed by:
U.S.G.S. Water Resources Branch 1912.

Reestablished
Nov. 6, 1927, by Los Angeles County Flood Control District.

Records Available -
1912 - 14 see page 374, U.S.G.S. Water Supply Paper # 447. For Oct. 1, 1927 - Sept. 30, 1928 at Los Angeles County Flood Control District Hydrographic Department report.

Gage:
Vertical staff gage on wall of concrete stilling well on west bank of stream and Au continuous water stage recorder installed in house on concrete stilling well on west bank of stream.

Discharge Measurements:
High water measurements made from cable car on cable 200' above gage or on cable at gage.
Low water measurements made by wading near gage.

Channel and Control:
Channel gravel and boulders, low water flow in 1927-28, controlled by boulder dam. Control changed during season of 1927-28. High water flow controlled by diversion dam 500 feet below gage.

Extremes of Discharge:

Maximum	1852 c.f.s.	11:00 A.M.	Feb. 4, 1928
	384 "		" 5, "
	148 "		Dec. 9, 1927
	103 "		March 15, 1928
Minimum	2.7 "	8:00 P.M.	Sept.5, 1928

San Gabriel River - Edison Intake, continued.

Diversions:
None above gage.
Southern California Edison Company diverts up to 85 second feet at diversion dam and intake, 500 feet below gage.

Regulation:
No regulation during 1927 - 28.

Accuracy:
Fair.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in co-operation with U.S.G.S. Water Resources Branch.

U. C. Dist. Form 104 - 500 - 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Gage Height Readings ~~XXXXXXXXXXXXXXXXXXXX~~ SAN GABRIEL River ~~XXXX~~

at EDISON INTAKE ~~XXX~~ , during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. sec.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1	Oct. 1	R. P. Dalton				3.98	10:00		A.M.					
2	" 2	" " "				3.98	10:00		A.M.					
3	" 3	" " "				3.97	11:00		A.M.					
4	" 4	" " "				3.97	12:00		M.					
5	" 5	" " "				3.97	12:00		M.					
6	" 6	" " "				3.99	9:00		A.M.					
7	" 7	" " "				3.99	9:00		A.M.					
8	" 8	" " "				3.97	9:00		A.M.					
9	" 10	" " "				3.95	12:00		M.					
10	" 11	" " "				3.96	8:00		A.M.					
11	" 12	" " "				3.95	12:00		M.					
12	" 13	" " "				3.96	9:00		A.M.					
13	" 14	" " "				3.95	9:30		A.M.					
14	" 15	" " "				3.96	8:00		A.M.					
15	" 17	" " "				3.94	4:00		P.M.					
16	" 18	" " "				3.95	8:00		A.M.					
17	" 19	" " "				3.94	8:00		A.M.					
18	" 20	" " "				3.94	8:00		A.M.					
19	" 21	" " "				3.93	8:00		A.M.					
20	" 22	" " "				3.94	8:00		P.M.					
21	" 25	" " "				3.95	12:00		M.					
22	" 30	" " "				3.99	12:00		M.					

These gage height readings were made by R. P. Dalton previous to the installation of the Automatic Water Stage Recorder.

E. C. Dist. Form 104 - 500 - 3-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Discharge measurements of SAN GABRIEL River

at EDISON INTAKE, during the year ending September 30, 1928.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. ures.	G. Ht. change	Time	Meter No.
	1927		Feet	Sq.ft.	Ft. per sec	Feet	Sec.ft.	Percent diff.			No.	Total	Hours	
a	10-8	R. P. Dalton	27.0	25.1	1.1	3.97	28.1			.6	20	0	2/3	734
b	10-15	" " "	27.0	24.5	1.1	3.95	28.0			.6	21	0	2/3	"
c	10-22	" " "	24.5	24.2	1.01	3.93	24.5			.6	15	0	2/3	"
1	12-22	W. H. Crawford	48.5	35.1	1.83	4.10	64.4			.6	15	0	1/2	271 666
2	12-23	" " "	48.4	34.6	1.65	4.05	57.3			.6	20	0	1/2	"
3	12-27	" " "	51.0	42.6	1.76	4.32	75.15			.6	20	0	1	"
4	12-30	" " "	35.0	41.9	1.44	4.17	60.35			.6	17	0	1/2	262 556
5	1928 1-14	" " "	52.0	34.0	1.56	4.04	53.3			.6	20	0	1/2	"
6	2-4	Crawford & Wheeler	80.0	242.5	7.44	7.05	1804			.6	14a	.03	1/2	271 666
7	2-4	W. H. Crawford	76.0	173.8	5.84	6.05	1015			.6	14	.54	3/4	"
8	2-4	" " "	71.0	116.7	4.95	5.13	578.			.6	13	.15	3/4	"
9	2-5	" " "	64.0	96.8	3.96	4.65	384			.6	13	.02	1/2	"
10	2-5	" " "	63.0	82.4	3.48	4.44	287			.6	13	.02	2/3	"
11	2-6	" " "	60.0	69.4	2.87	4.02	199			.6	23	0	2/3	"
12	2-7	Crawford & Patterson	54.0	54.6	2.73	3.94	150			.6	15	0	1/2	"
13	2-9	" "	53.0	46.1	2.66	3.80	123			.6	21	0	2/3	"
14	2-10	G. P. Patterson	51.5	44.9	2.44	3.74	110			.6	16	0	1/2	"
15	2-11	Crawford&Patterson	50.8	44.0	2.32	3.69	102			.6	18	0	1/2	"
16	2-27	Patterson&Probst	59.0	41.8	1.75	4.31	73.3			.6	16	0	1/2	"
17	3-3	Patterson&Crawford	59.0	45.0	2.18	4.50	98.2			.6	16a	.03	1/2	"
18	3-5	Crawford & Probst	59.0	42.6	1.81	4.33	77.0			.6	16a	.06	1/2	"
19	3-5	Crawford&Patterson	58.5	51.5	2.08	4.56	107			.6	16a	.04	1/2	"
20	3-5	" "	58.5	56.1	2.32	4.61	130			.6	18	.02	5/6	"
21	3-7	Patterson & Probst	58.0	49.6	1.90	4.35	94.1			.6	16a	.01	1/2	"
22	3-8	Crawford&Patterson	58.0	47.9	1.77	4.57	84.6			.6	18	0	1/3	"
23	3-9	Patterson & Probst	58.0	44.0	1.89	4.50	83.4			.6	16	0	1/3	"
24	3-10	Crawford&Patterson	56.0	43.1	1.90	4.54	82.0			.6	18	.01	1/2	"
25	3-12	" "	56.0	42.2	1.91	4.30	80.8			.6	19	.01	1/2	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Discharge measurements of SAN GABRIEL River

at EDISON INTAKE, during the year ending September 30, 1928.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Method Coef.	Meas. see	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.ft.	Ft. per sec.	Feet	Sec.ft.	Percent diff.	No.	Total	Hours	271
26	3-14	Crawford & Patter	59.0	43.3	1.85	4.30	81.2	.6	21	0	5/6	666
27	3-21	" & Patterson	57.5	39.1	1.73	4.72	67.6	.6	18	0	2/3	262 556
28	3-23	" "	57.0	41.4	1.72	4.70	71.2	.6	16	0	1/2	"
29	3-24	" "	59.0	42.1	1.81	4.78	76.4	.6	19	0	1/2	"
30	3-26	" "	59.0	44.8	1.83	4.80	81.9	.6	19	0	3/4	"
31	3-27	"	59.0	45.5	1.89	4.84	35.7	.6	19	0	2/3	"
32	3-28	"	57.5	42.7	1.77	4.66	75.4	.6	21	0	3/4	"
33	3-29	Crawford & Wheeler	59.0	41.5	1.79	4.59	74.1	.6	20	0	1/2	"
34	4-3	"	58.0	45.5	1.92	4.68	87.3	.6	21	0	2/3	"
35	4-5	"	57.0	38.6	1.67	4.54	65.1	.6	18	0	1/2	"
36	4-14	"	51.0	34.5	1.64	4.47	56.5	.6	16	0	1/2	"
37	4-21	"	57.0	33.4	1.60	4.48	53.6	.6	16	0	1/2	"
38	4-28	"	53.0	31.5	1.50	4.42	47.2	.6	15	0	1/2	"
39	5-4	"	48.0	30.3	1.45	4.38	44.1	.6	17	0	1/2	"
40	5-9	"	57.0	36.1	1.69	4.54	61.1	.6	14	a.01	1/2	"
41	5-9	"	57.0	40.5	1.72	4.60	69.4	.6	17	0	1/2	"
42	5-10	"	57.0	36.3	1.64	4.52	59.4	.6	17	0	1/2	"
43	5-24	"	46.0	25.4	1.33	4.25	33.6	.6	15	0	1/2	"
44	5-26	"	54.0	26.0	1.27	4.26	33.0	.6	16	0	1/2	"
45	6-13	R. P. Dalton	30.0	19.0	1.34	4.18	25.4	.6	15	-.01	1/2	271 647
46	6-20	" " "	30.0	18.4	1.33	4.20	24.5	.6	15	0	1/3	"
47	6-30	H. J. Tompkins	13.0	8.9	2.02	4.06	17.6	.6	12	0	1/2	885
48	7-5	R. P. Dalton	31.0	14.2	1.11	3.98	15.7	.6	14	0	5/6	271 647
49	7-13	" " "	10.0	7.02	1.67	3.90	11.8	.6	10	0	1/3	"
50	7-27	" " "	9.5	6.39	1.45	3.84	9.27	.6	11	0	3/4	"
51	8-8	Dalton & Tompkins	12.0	8.30	1.26	3.86	10.4	.6	7	0	1/3	885
52	8-9	" "	12.0	7.70	1.05	3.76	8.11	.6	7	0	1/4	"
53	8-30	R. P. Dalton	11.9	6.98	0.98	3.69	6.89	.6	10	0	1/3	271 647

Sheet #3

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Discharge measurements of SAN GABRIEL River

at EDI ON INTAKE, during the year ending September 30, 19 28.

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
														271
54	9-26-28	R.P.Dalton	12.5	7.62	1.02	?	7.76		.6		12	0	1/3	647

F.C.Dist. Form 101—1M—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Daily gage height, in feet, ~~discharge, in second feet~~ of SAN GABRIEL RIVER AT THE EDISON INTAKE TUNNEL for the year ending Sept. 30, 1928.

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	2.98	3.09 I	3.22	3.38	3.43	4.58	4.57	4.37	4.21	4.04	3.80	3.71
2	2.98	3.11 I	3.21	3.39	3.45	4.57	4.58	4.38	4.21	4.03	3.84	3.70
3	2.97	3.14 I	3.22	3.39	H	4.47	4.65	4.38	4.20	4.02	3.87	3.66
4	2.97	3.16 I	3.19	3.41	H	4.69	4.57	4.38	4.20	4.01	3.88	3.62
5	2.97	3.19 I	3.22	3.39	H	H	4.54	4.32	4.20	3.99 I	3.88	3.56
6	2.99	3.20	3.23	3.38	H	4.78	4.53	4.32	4.20	3.95	3.85	3.65
7	2.99	3.21	3.25	3.37	3.91	4.67	4.51	4.34	4.20 I	3.94	3.81	3.67
8	2.97	3.21	3.25	3.36	3.79	4.59	4.49	4.40	4.19 I	3.93	3.79	3.68
9	2.97 I	3.21	H	3.36	3.72	4.66	4.50	4.56	4.19 I	3.93	3.77	3.72
10	2.97	3.36	3.66	3.36	3.65	4.62	4.50	4.52	4.18 I	3.93	3.77	3.76
11	2.99	3.33	3.54	3.36	3.61	4.66	4.50	4.48	4.18 I	3.92	3.77	3.79
12	2.99	3.28	3.45	3.36	3.61	H	4.50	4.44	4.18 I	3.91	3.77	3.82
13	3.00	3.26	3.42	3.35	3.60	4.48	4.50	4.42	4.18 I	3.85	3.77	3.80
14	3.00	3.26	3.41	3.36	3.59	4.52	4.50	4.40	4.17	3.85	3.78	3.75
15	3.01	3.26	3.41	3.40	3.55	H	4.47	4.41	4.17	3.84	3.78	3.74
16	3.01	3.22	3.38	3.40	3.55	4.67	4.46	4.40	4.16	3.80	3.79	3.72
17	3.01	3.22	3.38	3.54	3.38	4.62	4.50	4.40	4.16	3.78	3.79	3.70
18	3.02	3.21	3.37	3.36	3.53	4.58	4.50	4.38	4.15	3.78	3.77	3.70
19	3.03	3.20	3.36	3.38	3.50	4.54	4.47	4.36	4.15	3.84	3.75	3.70
20	3.04	3.21	3.36	3.36	H	H	4.47	4.32	4.14	3.90	3.73	3.69
21	3.03	3.21	3.43	3.37	H	H	4.47	4.32	4.13	3.91	3.72	3.63
22	3.04	3.21	3.43	3.37	H	4.54	4.45	4.31	4.12	3.90	3.72	3.67
23	3.05	3.22	3.35	3.38	H	4.59	4.44	4.29	4.12	3.89	3.74	3.66
24	3.07	3.23	3.32	3.39	3.41	4.62	4.44	4.28	4.11	3.87	3.76	3.66
25	3.08	3.23	H	3.37	3.39	4.64	4.43	4.25	4.11	3.84	3.76	3.67
26	3.06 I	3.22	3.63	3.39	3.37	4.65	4.42	4.24	4.10	3.82	3.76	3.70
27	3.06 I	3.22	3.50	3.40	4.61	4.65	4.40	4.24	4.09	3.82	3.77	3.76
28	3.06 I	3.23	3.43	3.41	4.59	4.68	4.40	4.23	4.08	3.81	3.75	3.74
29	3.07 I	3.22	3.39	3.43	4.58	4.62	4.39	4.23	4.07	3.80	3.73	3.68
30	3.08 I	3.23	3.40	3.44		4.59	4.39	4.22	4.05	3.79	3.71	3.59
31	3.08 I		3.39	3.44		4.58		4.22		3.79	3.72	

Period from Oct.1,1927 - Feb.26,1928 Inc. corrected from Correction Curve #1.

Period from Feb.27,1928- Apr.30,1928,Inc. corrected from Correction Curve #II.

I = Interpolated

H = Hydrograph

L. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Rating table for SAN GABRIEL RIVER AT THE EDISON INTAKE

(for Curve No. 1), *from* Oct. 1st, 1927, *to* Feb. 26th, 1928.

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
3.00	30	1	3.40	69	2	3.80	128	4	4.20	226	6	.60	356	7
3.02	31	2	3.42	71	2	3.82	132	4	.22	232	6	.62	363	7
3.04	33	2	3.44	73	3	3.84	136	5	.24	238	6	.64	370	8
3.06	35	2	3.46	76	3	3.86	141	5	.26	244	6	.66	378	8
3.08	37	2	3.48	79	3	3.88	146	5	.28	250	6	.68	386	8
3.10	39	2	3.50	82	3	3.90	151	5	.30	256	6	.70	394	8
3.12	41	2	3.52	85	3	3.92	156	5	.32	262	6	.72	402	8
3.14	43	2	3.54	88	3	3.94	161	5	.34	268	6	.74	410	8
3.16	45	2	3.56	91	3	3.96	166	5	.36	274	6	.76	418	8
3.18	47	2	3.58	94	3	3.98	171	5	.38	280	6	.78	426	8
3.20	49	2	3.60	97	3	4.00	176	5	.40	286	7	.80	434	8
3.22	51	2	3.62	100	3	4.02	181	5	.42	293	7	.82	442	8
3.24	53	2	3.64	103	3	4.04	186	5	.44	300	7	.84	450	8
3.26	55	2	3.66	106	3	4.06	191	5	.46	307	7	.86	458	8
3.28	57	2	3.68	109	3	4.08	196	5	.48	314	7	.88	466	8
3.30	59	2	3.70	112	3	4.10	201	5	.50	321	7	.90	474	8
3.32	61	2	3.72	115	3	4.12	206	5	.52	328	7	.92	482	8
3.34	63	2	3.74	118	3	4.14	211	5	.54	335	7	.94	490	8
3.36	65	2	3.76	121	3	4.16	216	5	.56	342	7	.96	498	8
3.38	67	2	3.78	124	4	4.18	221	5	.58	349	7	.98	506	9

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by J.P.

Checked by M.A.R.

Date Oct. 29, 1928.

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Rating table for SAN GABRIEL RIVER AT THE EDISON INTAKE

(for Curve No. 1) , *from* Oct. 1st , 1927 , *to* Feb. 26th , 19 28.

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
5.00	515	9	5.40	695	9	5.80	891	10	6.20	1112	13	6.60	1412	16
5.02	524	9	5.42	704	9	5.82	901	10	6.22	1125	13	6.62	1428	17
5.04	533	9	5.44	713	9	5.84	911	10	6.24	1138	14	6.64	1445	17
5.06	542	9	5.46	722	9	5.86	921	10	6.26	1152	14	6.66	1462	17
5.08	551	9	5.48	731	10	5.88	931	10	6.28	1166	14	6.68	1479	17
5.10	560	9	5.50	741	10	5.90	941	10	6.30	1180	15	6.70	1496	17
5.12	569	9	5.52	751	10	5.92	951	10	6.32	1195	15	6.72	1513	18
5.14	578	9	5.54	761	10	5.94	961	10	6.34	1210	15	6.74	1531	18
5.16	587	9	5.56	771	10	5.96	971	10	6.36	1225	15	6.76	1549	18
5.18	596	9	5.58	781	10	5.98	981	11	6.38	1240	15	6.78	1567	18
5.20	605	9	5.60	791	10	6.00	992	11	6.40	1255	15	6.80	1585	18
5.22	614	9	5.62	801	10	6.02	1003	11	6.42	1270	15	6.82	1603	18
5.24	623	9	5.64	811	10	6.04	1014	11	6.44	1285	15	6.84	1621	18
5.26	632	9	5.66	821	10	6.06	1025	11	6.46	1300	16	6.86	1639	18
5.28	641	9	5.68	831	10	6.08	1036	11	6.48	1316	16	6.88	1657	18
5.30	650	9	5.70	841	10	6.10	1047	13	6.50	1332	16	6.90	1675	18
5.32	659	9	5.72	851	10	6.12	1060	13	6.52	1348	16	6.92	1693	18
5.34	668	9	5.74	861	10	6.14	1073	13	6.54	1364	16	6.94	1711	18
5.36	677	9	5.76	871	10	6.16	1086	13	6.56	1380	16	6.96	1729	18
5.38	686	9	5.78	881	10	6.18	1099	13	6.58	1396	16	6.98	1747	19

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by G.P.

Checked by M.A.R.

Date Oct. 29, 1928.

L.C.Dist. Form 10.1—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Rating table for SAN GABRIEL RIVER AT THE EDISON INTAKE

(for Curve No. 1) , *from* Oct. 1st , 19 27 , *to* Feb. 26th , 19 28

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
7.00	1766													
		19												
7.02	1785													
		19												
7.04	1804													
		19												
7.06	1823													
		19												
7.08	1842													
		19												
7.10	1861													
		19												
7.12	1880													
		19												
7.14	1899													
		19												
7.16	1918													
		19												
7.18	1937													
		19												
7.20	1956													
		19												
7.22	1975													
		19												
7.24	1994													

The above table is not applicable for altered channel conditions. It is based on discharge measurements made during

I.C.Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Rating table for SAN GABRIEL RIVER AT THE EDISON INTAKE

(for Curve No. 2) , *from* Feb. 27th , 19 28 , *to* April 28th , 19 28.

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
3.40	3.50	.10	3.60	5.95	.15	3.80	8.95	.15	4.00	14.95	.50	4.20	26.40	.75
3.41	3.60	.10	3.61	6.10	.15	3.81	9.10	.20	4.01	15.45	.50	4.21	27.15	.75
3.42	3.70	.10	3.62	6.25	.15	3.82	9.30	.20	4.02	15.95	.50	4.22	27.90	.80
3.43	3.80	.10	3.63	6.40	.15	3.83	9.50	.20	4.03	16.45	.50	4.23	28.70	.80
3.44	3.90	.10	3.64	6.55	.15	3.84	9.70	.20	4.04	16.95	.50	4.24	29.50	.80
3.45	4.00	.10	3.65	6.70	.15	3.85	9.90	.20	4.05	17.45	.50	4.25	30.30	.85
3.46	4.10	.10	3.66	6.85	.15	3.86	10.10	.25	4.06	17.95	.50	4.26	31.15	.85
3.47	4.20	.10	3.67	7.00	.15	3.87	10.35	.25	4.07	18.45	.50	4.27	32.00	.90
3.48	4.30	.10	3.68	7.15	.15	3.88	10.60	.25	4.08	18.95	.50	4.28	32.90	.95
3.49	4.40	.10	3.69	7.30	.15	3.89	10.85	.25	4.09	19.45	.50	4.29	33.85	.95
3.50	4.50	.10	3.70	7.45	.15	3.90	11.10	.30	4.10	19.95	.55	4.30	34.80	1.00
3.51	4.60	.15	3.71	7.60	.15	3.91	11.40	.30	4.11	20.50	.55	4.31	35.80	1.00
3.52	4.75	.15	3.72	7.75	.15	3.92	11.70	.30	4.12	21.05	.60	4.32	36.80	1.00
3.53	4.90	.15	3.73	7.90	.15	3.93	12.00	.35	4.13	21.65	.60	4.33	37.80	1.00
3.54	5.05	.15	3.74	8.05	.15	3.94	12.35	.35	4.14	22.25	.65	4.34	38.80	1.00
3.55	5.20	.15	3.75	8.20	.15	3.95	12.70	.35	4.15	22.90	.70	4.35	39.80	1.00
3.56	5.35	.15	3.76	8.35	.15	3.96	13.05	.40	4.16	23.60	.70	4.36	40.80	1.00
3.57	5.50	.15	3.77	8.50	.15	3.97	13.45	.50	4.17	24.30	.70	4.37	41.80	1.10
3.58	5.65	.15	3.78	8.65	.15	3.98	13.95	.50	4.18	25.00	.70	4.38	42.90	1.10
3.59	5.80	.15	3.79	8.80	.15	3.99	14.45	.50	4.19	25.70	.70	4.39	44.00	1.10

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by G.P.

Checked by M.A.R.

Date Oct. 29, 1928.

F.C.Di-4.Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Rating table for SAN GABRIEL RIVER AT THE EDISON INTAKE

(for Curve No. 2) , *from* Feb. 27th , 1928 , *to* April 28th , 1928.

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
4.40	45.10		4.60	73.00		4.80	112.0		5.00	157.8				
		1.20			1.70			2.20						
4.41	46.30		4.61	74.70		4.81	114.2							
		1.20			1.70			2.20						
4.42	47.50		4.62	76.40		4.82	116.4							
		1.20			1.80			2.20						
4.43	48.70		4.63	78.20		4.83	118.6							
		1.20			1.90			2.20						
4.44	49.90		4.64	80.10		4.84	120.8							
		1.30			1.90			2.20						
4.45	51.20		4.65	82.00		4.85	123.0							
		1.30			1.90			2.20						
4.46	52.50		4.66	83.90		4.86	125.2							
		1.30			1.90			2.30						
4.47	53.80		4.67	85.80		4.87	127.5							
		1.30			1.90			2.30						
4.48	55.10		4.68	87.70		4.88	129.8							
		1.30			1.90			2.30						
4.49	56.40		4.69	89.60		4.89	132.1							
		1.40			1.90			2.30						
4.50	57.80		4.70	91.50		4.90	134.4							
		1.40			1.90			2.30						
4.51	59.20		4.71	93.40		4.91	136.7							
		1.40			1.90			2.30						
4.52	60.60		4.72	95.30		4.92	139.0							
		1.40			1.90			2.30						
4.53	62.00		4.73	97.20		4.93	141.3							
		1.50			2.00			2.30						
4.54	63.50		4.74	99.20		4.94	143.6							
		1.50			2.00			2.30						
4.55	65.00		4.75	101.2		4.95	145.9							
		1.60			2.10			2.30						
4.56	66.60		4.76	103.3		4.96	148.2							
		1.60			2.10			2.40						
4.57	68.20		4.77	105.4		4.97	150.6							
		1.60			2.20			2.40						
4.58	69.80		4.78	107.6		4.98	153.0							
		1.60			2.20			2.40						
4.59	71.40		4.79	109.8		4.99	155.4							
		1.60			2.20			2.40						

The above table is not applicable for obstructed channel conditions. It is based on discharge measurements made during

F. C. Dist.—Form 105 500 9-29

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN GABRIEL River

At EDISON INTAKE for the Year Ending September 30, 1928.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Drainage Area 202.46 Square Miles. [Au Continuous Water State Recorder. Observer.] Gage Read to Continuous One Twice a Day. Used rating table dated Oct. 27, 1928.

Maximum stage 7.07 feet at 11:00 A.M. on Feb. 4, 1928 Discharge 1832 second-feet.
Minimum stage 3.32 feet at 8:00 P.M. on Sep. 5, 1928 Discharge 2.70 second-feet.

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	2.98	28.0	3.09	38.0	3.22	51.0	3.38	67.0	3.43	72.0	4.58	69.8
2	2.98	28.0	.11	40.0	.21	50.0	.39	68.0	3.45	74.5	.57	68.2
3	2.97	27.0	.14	43.0	.22	51.0	.39	68.0	H	144.5	.47	53.8
4	2.97	27.0	.16	45.0	.19	48.0	.41	70.0	H	916.3	.69	89.6
5	2.97	27.0	.19	48.0	.22	51.0	.39	68.0	H	341.5	H	87.9
6	2.99	29.0	.20	49.0	.23	52.0	.38	67.0	H	225.7	.78	107.6
7	2.99	29.0	.21	50.0	.25	54.0	.37	66.0	3.91	153.5	.67	85.8
8	2.97	27.0	.21	50.0	.25	54.0	.36	65.0	.79	126.0	.59	71.4
9	2.97	27.0	.21	50.0	H	113.7	.36	65.0	.72	115.0	.66	83.9
10	2.97	27.0	.36	65.0	.66	106.0	.36	65.0	.65	104.5	.62	76.4
11	2.99	29.0	.33	62.0	.54	88.0	.36	65.0	.61	98.5	.66	83.9
12	2.99	29.0	.28	57.0	.45	74.5	.36	65.0	.61	98.5	H	70.2
13	3.00	30.0	.26	55.0	.42	71.0	.35	64.0	.60	97.0	.48	55.1
14	3.00	30.0	.26	55.0	.41	70.0	.36	65.0	.59	95.5	.52	60.6
15	3.01	30.5	.26	55.0	.41	70.0	.40	69.0	.55	89.5	H	68.2
16	3.01	30.5	.22	51.0	.38	67.0	.40	69.0	.55	89.5	.67	85.8
17	3.01	30.5	.22	51.0	.38	67.0	.38	67.0	.54	88.0	.62	76.4
18	3.02	31.0	.21	50.0	.37	66.0	.36	65.0	.53	86.5	.58	69.8
19	3.03	32.0	.20	49.0	.36	65.0	.38	67.0	.50	82.0	.54	63.5
20	3.04	33.0	.21	50.0	.36	65.0	.36	65.0	H	83.5	H	69.8
21	3.03	32.0	.21	50.0	.43	72.0	.37	66.0	H	82.0	H	66.0
22	3.04	33.0	.21	50.0	.43	72.0	.37	66.0	H	82.0	.54	63.5
23	3.05	34.0	.22	51.0	.35	64.0	.38	67.0	H	82.0	.59	71.4
24	3.07	36.0	.23	52.0	.32	61.0	.39	68.0	3.41	70.0	.62	76.4
25	*3.08	37.0	.23	52.0	H	66.7	.37	66.0	.39	68.0	.64	80.1
26	3.06	35.0	.22	51.0	.63	101.5	.39	68.0	.37	66.0	.65	82.0
27	3.06	35.0	.22	51.0	.50	82.0	.40	69.0	4.61	74.7	.65	82.0
28	3.06	35.0	.23	52.0	.43	72.0	.41	70.0	.59	71.4	.68	87.7
29	3.07	36.0	.22	51.0	.39	68.0	.43	72.0	.58	69.8	.62	76.4
30	3.08	37.0	.23	52.0	.40	69.0	.44	73.0			.59	71.4
31	3.08	37.0			.39	68.0	.44	73.0			.58	69.8
TOTAL		968.5		1525.0		2130.4		2088.0		3846.0		2324.4
[illegible]		31.24		50.83		68.72		67.0		132.6		74.98
[illegible]		4.62		7.28		10.17		9.97		18.36		11.10
[illegible]		1921.02		3024.84		4225.65		4141.55		7630.32		4610.45
[illegible]		37.0		65.0		113.7		73.0		916.3		107.6
[illegible]		27.0		38.0		48.0		64.0		66.0		60.6

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period / Year
1	4.57	68.2	4.37	41.8	4.21	27.15	4.04	16.95	3.80	8.95	3.71	7.60	
2	.58	69.8	.38	42.9	.21	27.15	.03	16.45	.84	9.70	.70	7.45	
3	.65	82.0	.38	42.9	.20	26.4	.02	15.95	.87	10.35	.66	6.85	
4	.57	68.2	.38	42.9	.20	26.4	.01	15.45	.88	10.60	.62	5.25	
5	.54	63.5	.32	36.8	.20	26.4	3.99	14.45	.88	10.60	.56	5.35	
6	.53	62.0	.32	36.8	.20	26.4	.95	12.70	.85	9.90	.65	6.70	
7	.51	59.2	.34	38.8	.20	26.4	.94	12.35	.81	9.10	.67	7.00	
8	.49	56.4	.40	45.1	.19	25.7	.93	12.0	.79	8.80	.68	7.15	
9	.50	57.8	.56	66.6	.19	25.7	.93	12.0	.77	8.50	.72	7.75	
10	.50	57.8	.52	60.6	.18	25.0	.93	12.0	.77	8.50	.76	8.35	
11	.50	57.8	.48	55.1	.18	25.0	.92	11.7	.77	8.50	.79	8.80	
12	.50	57.8	.44	49.9	.18	25.0	.91	11.4	.77	8.50	.82	9.30	
13	.50	57.8	.42	47.5	.18	25.0	.85	9.90	.77	8.50	.80	8.95	
14	.50	57.8	.40	45.1	.17	24.3	.85	9.90	.78	8.65	.75	8.20	
15	.47	53.8	.41	46.3	.17	24.3	.84	9.70	.78	8.65	.74	8.05	
16	.46	52.5	.40	45.1	.16	23.6	.80	8.95	.79	8.80	.72	7.75	
17	.50	57.8	.40	45.1	.16	23.6	.78	8.65	.79	8.80	.70	7.45	
18	.50	57.8	.38	42.9	.15	22.9	.78	8.65	.77	8.50	.70	7.45	
19	.47	53.8	.36	40.8	.15	22.9	.84	9.70	.75	8.20	.70	7.45	
20	.47	53.8	.32	36.8	.14	22.25	.90	11.10	.73	7.90	.69	7.30	
21	.47	53.8	.32	36.8	.13	21.65	.91	11.40	.72	7.75	.63	6.40	
22	.45	51.2	.31	35.8	.12	21.05	.90	11.10	.72	7.75	.67	7.00	
23	.44	49.9	.29	33.8	.12	21.05	.89	10.85	.74	8.05	.66	6.85	
24	.44	49.9	.28	32.9	.11	20.5	.87	10.35	.76	8.35	.66	6.85	
25	.43	48.7	.25	30.3	.11	20.5	.84	9.70	.76	8.35	.67	7.00	
26	.42	47.5	.24	29.5	.10	19.95	.82	9.30	.76	8.35	.70	7.45	
27	.40	45.1	.24	29.5	.09	19.45	.82	9.30	.77	8.50	.76	8.35	
28	.40	45.1	.23	28.7	.08	18.95	.81	9.10	.75	8.20	.74	8.05	
29	.39	44.0	.23	28.7	.07	18.45	.80	8.95	.73	7.90	.68	7.15	
30	.39	44.0	.22	27.9	.05	17.45	.79	8.80	.71	7.60	.59	5.80	
31			.22	27.9			.79	8.80	.72	7.75			
TOTAL		1684.8		1251.6		700.55		347.60		268.55		221.05	17,357.35
[illegible]		56.16		40.37		23.35		11.21		8.66		7.37	
[illegible]		8.04		5.97		3.34		[illegible]		1.28		1.06	
[illegible]		3341.80		2482.55		1389.54		[illegible]		532.67		438.45	34,423.30
[illegible]		82.0		66.6		27.15				10.60		9.30	
[illegible]		44.0		27.9		17.45				7.60		5.25	

Quarter check (right margin): Computed: First MAR MAR, Second MAR MAR, Third MAR MAR, Fourth MAR MAR; Disch. applied: First MAR MAR, Second MAR MAR, Third MAR MAR, Fourth MAR MAR; G. H. Copied: First G.P. MAR, Second G.P. MAR, Third G.P. MAR, Fourth G.P. MAR.

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Monthly discharge of SAN GABRIEL River ~~Creek~~

at ~~Mouth~~ EDISON INTAKE for the year ending Sept. 30, 19 28

(Drainage area 209.48 square miles)

Mean Daily DISCHARGE IN SECOND-FEET — RUN-OFF

MONTH	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	Accuracy
October	37.0	27.0	31.2			1921.02	
November	65.0	38.0	50.8			3024.84	
December	113.7	48.0	68.7			4225.65	
January	73.0	64.0	67.0			4141.55	
February	916.3	66.0	132.6			7630.32	
March	107.6	60.6	75.0			4610.45	
April	82.0	44.0	56.2			3341.80	
May	66.6	27.9	40.4			2482.55	
June	27.1	17.4	23.5			1389.54	
July	17.0	8.6	11.2			689.46	
August	10.6	7.6	8.6			532.67	
September	9.3	5.2	7.4			438.45	
The ~~year period~~	916.3	5.2				34428.80	

NOTE:

Gage height readings were made daily previous to the installation of the automatic recorder on Nov. 6, 1927.

P I WEST FORK SAN GABRIEL RIVER - RINCON P.W.D.

Location:
About ½ mile above San Gabriel Canyon Forks on West Fork near Camp Rincon - about 12 miles north of Azusa, Los Angeles County, California.

Drainage Area:
104.00 sq.mi. measured on U.S.G.S. topographic maps.

Installed By:
Pasadena Water Department November 8, 1923.

Records Available:
From Oct. 1, 1927 to Sept. 30, 1928 at Los Angeles County Flood Control District.
From Nov. 8, 1923 to Sept. 30, 1928 (incomplete) at Pasadena Water Dept.

Gage:
Staff gage installed on south bank stream at recorder well. Stevens continuous water stage recorder installed in corrugated iron stilling well.

Discharge Measurements:
Low water flow measured near gage. High water measurements made from cable car located about one quarter mile above gage.

Channel and Control:
Channel at gage sand, gravel and boulders, rock banks, no control.

Extremes of Discharge:

Maximum	1590 c.f.s.	Feb. 4,	1928
	386 c.f.s.	" 5,	"
	147 c.f.s.	" 6,	"
	58.5 c.f.s.	Mar. 5,	"
Minimum	1.3 c.f.s.	Aug. 27 - Sept. 1,	1928.

Diversions:
No diversions above gage.

Regulation:
No regulation.

Accuracy:
Poor, due to lack of control.

Cooperation:
Operated by Pasadena Water Department previous to Oct. 1, 1927 - now operated by Los Angeles County Flood Control District in cooperation with U.S.G.S. Water Resources Branch, and Pasadena Water Department.

F. C. Dist. -Form 104--500 -9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P 1

Discharge measurements of WEST FORK SAN GABRIEL River

at P. W. D. STATION, during the year ending September 30, 1928.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1	1-31	Blakeley-Crawford & Cornick	21.5	13.98	1.52	1.78	21.24		.6		15		1/3	Gurley #2
2	2-4	Crawford, Price & Hillman	105	124.8	4.39	3.72	548.28		.6		13	.27	35mi	271-666
3	2-5	Crawford-Wheeler	16.7	6.39	2.23	2.60	14.00		.6		15		"	666
4	2-5	" Price-Hillman	98	65.34	2.06	2.78	202.12		.6		22	.07	1/2	262-556
5	2-6	W. H. Crawford	39.0	43.25	2.83	2.46	122.5		.6		20	.02	1/2	271-666
6	2-7	Crawford-Patterson	35.0	36.55	2.33	2.30	85.08		.6		12		25mi	666
7	2-8	" "	37.0	35.43	2.31	2.26	81.85		.6		16	0	25mi	666
8	2-9	G. Patterson	32.0	30.8	2.27	2.14	70.02		.6		14		1/2	666
9	2-10	" "	31.5	29.65	2.11	2.10	62.65		.6		12		50mi	666
10	2-27	Patterson-Probst	28.	21.63	1.30	1.83	28.04		.6		10		1/2	666
11	3-5	Crawford-Probst	32.0	24.39	1.62	1.99	39.51		.6		13		1/2	666
12	3-5	" & Patterson	35.0	31.62	1.84	2.18	+58.12		.6		15		1/2	666
13	3-14	" "	32.0	22.68	1.53	1.94	34.68		.6		13		1/6	262-556
14	3-23	" "	30.0	20.44	1.45	1.86	29.66		.6		13		1/3	556
15	3-24	" "	31.0	21.66	1.48	1.90	32.14		.6		12		25mi	556
16	3-26	" "	30.0	21.51	1.46	1.90	31.31		.6		11		1/3	556
17	3-28	W. H. Crawford	29.7	21.11	1.45	1.87	30.55		.6		13		25mi	556
18	3-30	" " "	29.7	20.10	1.40	1.85	28.19		.6		13		25mi	556
19	4-3	" " "	30.0	21.84	1.84	1.98	40.23		.6		12		25mi	556
20	4-5	" " "	28.7	15.87	1.67	1.84	26.48		.6		11		25mi	556
21	4-14	" " "	28.0	13.34	1.42	1.68	18.95		.6		11		1/3	556
22	4-21	" " "	28.0	13.33	1.43	1.72	19.11		.6		11		25mi	556

P. C. Dist.—Form 104—500 —9-28

Sheet 2

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P 1

Discharge measurements of WEST FORK SAN GABRIEL River ~~Creek~~

at ~~near~~ P.W.D. STATION, during the year ending September 30, 1928.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	262-
23	2-28	W. H. Crawford	20.	14.30	1.41	1.68	20.15		.6		11		1/3	556
24	5-4	" " "	28.	10.87	1.19	1.63	12.94		.6		10		¼	556
25	5-9	" " "	31.	17.19	1.66	1.84	28.48		.6		11		1/3	556
26	5-9	" " "	30.5	17.28	1.64	1.86	28.34		.6		11		1/3	556
27	5-10	" " "	30.	14.75	1.52	1.80	22.47		.6		11		1/3	556
28	5-24	" " "	27.0	9.48	1.03	1.54	9.79		.6		10		25m1	556
29	6-13	Dalton	20.	8.61	.83	1.56	7.18		.6		10		1/3	271-647
30	7-13	Roger Dalton	6.2	2.15	1.20	1.52	2.59		.6		8		1/6	647
31	7-27	" "	6.5	2.15	1.09	1.52	2.27		.6		8		1/6	647
32	8-8	Dalton-Tompkins	6.3	2.11	1.32	1.56	2.80		.6		7		1/6	USGS 885
33	8-9	" "	4.2	1.44	1.2	1.42	1.73		.6		5		1/6	885
34	8-23	Rupert-Blakeley	5.5			1.38	2.17		.6		6	0.0	¼	PWD #2
35	8-30	Roger Dalton	4.5	1.69	1.21	1.31	2.04		.6		9		1/6	271-647
36	9-26	" "	3.7	1.75	1.54		2.7		.6		7		1/6	647

F.C.Dist. Form 101—1M—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P1

Daily gage height, in feet, of WEST FORK, SAN GABRIEL

Mean Daily Gage Height for the year ending Sept. 30, 1928

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	1.52	H	1.69	1.92I	1.77	1.85	1.82	1.63	1.55			
2	1.51	1.77	1.69	1.91I	1.76	1.85	1.81	1.63	1.54			
3	1.51	1.72	1.69	1.90I	H	H	1.92	1.63	1.55			
4	1.51	1.69	1.70	1.90I	H	1.98	1.87	1.61	1.55			
5	1.52	1.68	1.71	1.89I	H	H	1.84	1.59	1.52			
6	1.53	1.70	1.72	1.88I	H	H	1.83	1.59	1.51			
7	1.54	1.70	1.73	1.88I	2.32	2.05	1.81	1.62	1.50			
8	1.53	1.70	1.74	1.87	2.23	2.02	1.79	1.68	1.51		Meas.	
9	1.53	1.70	1.74	1.87	2.16	2.00	1.77	1.83	1.52		Meas.	
10	1.53	H	H	1.87	2.10	1.98	1.77	1.79	1.52			
11	1.53	1.78	2.05	1.86	2.05	1.97	1.76	1.75	1.53			
12	1.52	1.74	2.05I	1.85	2.02	1.96	1.74	1.72	1.54			
13	1.52	1.74	2.04I	1.84	2.00	1.95	1.71I	1.69	1.55	Meas.		
14	1.52	1.76	2.04I	1.83	1.98	1.94	1.68I	1.68	1.55			
15	1.52	1.74	2.03I	1.84	1.96	1.93	1.68I	1.69	New Control			
16	1.52	1.72	2.03I	1.84	1.94	1.92	1.69I	1.68				
17	1.51	1.71	2.02I	1.83	1.92	1.90	1.69I	1.67				
18	1.51	1.70	2.02I	1.82	1.90	1.90	1.70I	1.65				
19	1.51	1.70	2.01I	1.82	1.89	1.89	1.70I	1.63				
20	1.51	1.70	2.00I	1.81	1.88	1.88	1.71I	1.59				
21	1.51	1.70	1.99I	1.80	1.87	1.88	1.72	1.57				
22	1.51	1.70	1.99I	1.80	1.87	1.87	1.69	1.56				
23	1.51	1.70	1.98I	1.79	1.86	1.86	1.69	1.54			Meas.	
24	1.52	1.70	1.97I	1.78	1.85	1.89	1.68	1.53				
25	1.54	1.70	1.96I	1.78	1.85	1.89	1.69	1.52				
26	1.65	1.70	1.96I	1.78	1.84	1.89	1.68	1.51				
27	1.72	1.70	1.95I	1.77	1.85	1.93	1.67	1.51		Meas.		
28	1.70	1.70	1.94I	1.76	1.85	1.89	1.67	1.52				
29	1.67	1.70	1.94I	1.76	1.85	1.88	1.65	1.51				
30	1.65	1.69	1.93I	1.77	---	1.85	1.64	1.52				
31	H	---	1.92I	1.78	---	1.83	--	1.56				Oct-3-27)

From June 15th to September 30, Disch. Interpolated between measurements on account of shifting sandy bottom and very low flows. All other disch. values from mean daily G.H.

Low Water Rating Table

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P 1

Rating table for WEST FORK SAN GABRIEL RIVER

Near Camp Rincon, *from* Oct. 1, 1927, *to* May 9, 1928.

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
1.50	9.8		2.50	128.0										
.55	12.1		.55	139.8										
.60	14.5		.60	152.0										
.65	17.0		.65	164.5										
.70	19.6		.70	178.0										
.75	22.3		.75	191.5										
.80	25.1		.80	207.0										
.85	28.5													
.90	32.1													
.95	36.3													
2.00	41.0													
.05	46.7													
.10	53.7													
.15	61.6													
.20	69.9													
.25	78.4													
.30	87.2													
.35	96.7													
.40	106.8													
.45	117.0													

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Interpolate daily flows between measurements from June 14, 1928 to Sept. 30, 1928. Shifting channel at low flows and flow below the openings in the stilling well. MAR.

Discharges exterpolated blow the gage height of 1.65 MAR.

Computed by MAR

Checked by LSB

Date Oct. 30, 1928.

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P 1

Rating table for WEST FORK SAN GABRIEL RIVER

near Camp Rincon, *from* Oct. 1, 19 27, *to* April 3, 1928.

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
2.80	207		3.80	584		4.65	990		5.65	1490				
.85	223		.85	606		.70	1015		.70	1515				
.90	239		.90	628		.75	1040		.75	1540				
.95	256		.95	650		.80	1065		.80	1565				
3.00	273		4.00	673		.85	1090		.85	1590				
.05	290		.05	696		.90	1115		.90	1615				
.10	307		.10	719		.95	1140		.95	1640				
.15	325		.15	743		5.00	1165		6.00	1665				
.20	344		.20	767		.05	1190							
.25	363		.25	791		.10	1215							
.30	382		.30	815		.15	1240							
.35	401		.35	840		.20	1265							
.40	420		.40	865		.25	1290							
.45	440		.45	890		.30	1315							
.50	460		.50	915		.35	1340							
.55	480		.55	940		.40	1365							
.60	500		.60	965		.45	1390							
.65	521		.65	990		.50	1415							
.70	542					.55	1440							
.75	563					.60	1465							

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Rating table discharges above 4.65 ft. gage height are exterpolated using a constant of 5 c.f.s gain in discharge per.01 rise in gage height.

Computed by MAR

Checked by LEB

Date Oct. 31, 1928.

L.C.D.C. Form 10—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P 1

Rating table for WEST FORK SAN GABRIEL RIVER

NEAR CAMP RINCON, *from* May 9, 1928, *to* June 14, 1928

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
1.50	8.2													
.55	10.0													
.60	12.0													
.65	14.3													
.70	17.0													
.75	19.8													
.80	22.6													
.85	25.8													
.90	29.2													
1.95	33.1													

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Interpolate daily flows between measurements from June 14, 1928 to Sept. 30, 1928. Shifting channel at low flows and flow below the openings in the stilling well. MAR

Computed by MAR

Checked by LEB

Date Oct. 31, 1928

Gage Height, in Feet, and Discharge, in Second-Feet, of WEST FORK, SAN GABRIEL River

Camp Rincon, PWD — for the Year Ending September 30, 1928

Drainage area 103.8 Square Miles. — STEVENS WATER STAGE RECORDER [Observer.]

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 03-10

Gage Read Continuously a day. — Used rating table dated

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1	1.52	10.8	H	32.5	1.69	19.1	1.92I	33.8	1.77	23.4	1.85	28.5	1.82	26.5	1.63	16.0	1.55	10.0		5.8		2.5		2.3
2	1.51	10.3	1.77	23.4	1.69	19.1	1.91I	32.9	1.76	22.9	1.85	28.5	1.81	25.8	1.63	16.0	1.54	9.6		5.6		2.5		2.3
3	1.51	10.3	1.72	20.7	1.69	19.1	1.90I	32.1	H	33.1	H	45.8	1.92	33.8	1.63	16.0	1.55	10.0		5.4		2.6		2.3
4	1.51	10.3	1.69	19.1	1.70	19.6	1.90I	32.1	H	704.	1.98	39.1	1.87	30.0	1.61	15.0	1.55	10.0		5.1		2.6		2.3
5	1.52	10.8	1.68	18.6	1.71	20.1	1.89I	31.4	H	214.	H	45.9	1.84	27.8	1.59	14.0	1.52	8.9		4.8		2.6		2.3
6	1.53	11.2	1.70	19.6	1.72	20.7	1.88I	30.7	H	117.	H	58.5	1.83	27.1	1.59	14.0	1.51	8.6		4.5		2.7		2.4
7	1.54	11.7	1.70	19.6	1.73	21.2	1.88I	30.7	2.32	91.0	2.05	46.1	1.81	25.8	1.62	15.5	1.50	8.2		4.2		2.7		2.4
8	1.53	11.2	1.70	19.6	1.74	21.8	1.87	30.0	2.23	75.0	2.02	43.3	1.79	24.5	1.68	18.6	1.51	8.6		3.9	Meas.	2.8		2.4
9	1.53	11.2	1.70	19.6	1.74	21.8	1.87	30.0	2.16	63.3	2.00	41.0	1.77	23.4	1.83	24.5	1.53	8.9		3.6	Meas.	1.7		2.4
10	1.53	11.2	H	26.4	H	50.6	1.87	30.0	2.10	53.7	1.98	39.1	1.77	23.4	1.79	23.0	1.52	8.9		3.3		1.7		2.4
11	1.53	11.2	1.78	24.0	2.05	46.7	1.86	29.2	2.05	46.7	1.97	38.2	1.76	22.9	1.75	19.8	1.53	9.3		3.1		1.6		2.4
12	1.52	10.8	1.74	21.8	2.05I	46.7	1.85	28.5	2.02	43.3	1.96	37.2	1.74	21.8	1.72	18.1	1.54	9.6		2.8		1.6		2.4
13	1.52	10.8	1.74	21.8	2.04I	45.6	1.84	27.8	2.00	41.0	1.95	36.3	1.71I	20.1	1.69	16.5	1.55	10.0	Meas.	2.6		1.7		2.5
14	1.52	10.8	1.76	22.9	2.04I	45.6	1.83	27.1	1.98	39.1	1.94	35.5	1.68I	18.6	1.68	15.9	1.55	10.0		2.5		1.7		2.5
15	1.52	10.8	1.74	21.8	2.03I	44.4	1.84	27.8	1.96	37.2	1.93	34.6	1.68I	18.6	1.69	16.5	New Control	9.8		2.5		1.8		2.5
16	1.52	10.8	1.72	20.7	2.03I	44.4	1.84	27.8	1.94	35.5	1.92	33.8	1.69I	19.1	1.68	15.9		9.6		2.5		1.8		2.5
17	1.51	10.3	1.71	20.1	2.02I	43.3	1.83	27.1	1.92	33.8	1.90	32.1	1.69I	19.1	1.67	15.4		9.3		2.5		1.9		2.5
18	1.51	10.3	1.70	19.6	2.02I	43.3	1.82	26.5	1.90	32.1	1.90	32.1	1.70I	19.6	1.65	14.3		9.1		2.4		1.9		2.5
19	1.51	10.3	1.70	19.6	2.01I	42.1	1.82	26.5	1.89	31.4	1.89	31.4	1.70I	19.6	1.63	13.4		8.9		2.4		2.0		2.5
20	1.51	10.3	1.70	19.6	2.00I	41.0	1.81	25.8	1.88	30.7	1.88	30.7	1.71I	20.1	1.59	11.6		8.6		2.4		2.0		2.6
21	1.51	10.3	1.70	19.6	1.99I	40.1	1.80	25.1	1.87	29.9	1.88	30.7	1.72	20.7	1.57	10.8		8.4		2.4		2.1		2.6
22	1.51	10.3	1.70	19.6	1.99I	40.1	1.80	25.1	1.87	29.9	1.87	30.0	1.69	19.1	1.56	10.4		8.2		2.3		2.1		2.6
23	1.51	10.3	1.70	19.6	1.98I	39.1	1.79	24.5	1.86	29.2	1.86	29.2	1.69	19.1	1.54	9.6		7.9		2.3	Meas.	2.2		2.6
24	1.52	10.8	1.70	19.6	1.97I	38.2	1.78	24.0	1.85	28.5	1.89	31.4	1.68	18.6	1.53	9.3		7.7		2.3		2.2		2.6
25	1.54	11.7	1.70	19.6	1.96I	37.2	1.78	24.0	1.85	28.5	1.89	31.4	1.69	19.1	1.52	8.9		7.5		2.3		2.2		2.6
26	1.65	17.0	1.70	19.6	1.96I	37.2	1.78	24.0	1.84	27.8	1.89	31.4	1.68	18.6	1.51	8.6		7.2		2.3		2.2		2.6
27	1.72	20.7	1.70	19.6	1.95I	36.3	1.77	23.4	1.85	28.5	1.93	34.6	1.67	18.0	1.51	8.6		7.0	Meas.	2.3		2.2		2.7
28	1.70	19.6	1.70	19.6	1.94I	35.5	1.76	22.9	1.85	28.5	1.89	31.4	1.67	18.0	1.52	8.9		6.8		2.4		2.2		2.7
29	1.67	18.0	1.70	19.6	1.94I	35.5	1.76	22.9	1.85	28.5	1.86	29.2	1.65	17.0	1.51	8.6		6.5		2.4		2.2		2.7
30	1.65	17.0	1.69	19.1	1.93I	34.6	1.77	23.4	....	....	1.85	28.5	1.64	16.5	1.52	8.9		6.3		2.4		2.3		2.7
31	H	28.6	....	....	1.92I	33.8	1.78	24.0	....	....	1.83	27.1	....	....	1.56	10.4		.....		2.5		2.3(Oct.3- 2.7)		

	October	November	December	January	February	March	April	May	June	July	August	September	Year
TOTAL	389.7	626.5	1083.8	851.1	2,037.5	1,090.6	652.3	432.0	259.4	97.8	66.6	74.8	7652.1
Mean Daily Discharge in Second-feet	12.6	20.9	35.0	27.5	69.9	35.2	21.7	13.9	8.6	3.2	2.1	2.5	[illegible]
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet	775	1244.	2152	1691.	4021.	2164.	1291.	855.	512.	157.	139.	149.	18,180.
Maximum Mean Daily Discharge in Second-feet	28.6	32.5	50.6	33.8	704.	58.5	33.8	24.5	10.0	5.8	2.8	2.7	704.
Minimum Mean Daily Discharge in Second-feet	10.3	18.6	19.1	22.9	22.9	27.1	16.5	8.6	6.3	2.3	1.6	2.3	1.6

"H" signifies Discharge taken from hydrograph. "I" signifies interpolated. Gage Heights. June 15 to Sept.30 Disch. Interpolated between measurements on account of shifting sandy bottom and very low flows. All other disch. values from mean daily G.H.

MAR MAR MAR MAR MAR MAR MAR MAR LEB LEB LEB — October 30, 1928 — 1928

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P1

Monthly discharge of WEST FORK SAN GABRIEL River ~~Creek~~

near CAMP RINCON, P.W.D. for the year ending Sept. 30, 1928

(Drainage area 103.8 square miles)

MONTH	Mean Daily DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	Fair
October	28.6	10.3	12.6			775	"
November	32.5	18.6	20.9			1244	"
December	50.6	19.1	35.0			2152	"
January	33.8	22.9	27.5			1691	"
February	704.0	22.9	69.9			4021	"
March	58.5	27.1	35.2			2164	"
April	33.8	16.5	21.7			1291	"
May	24.5	8.6	13.9			855	"
June	10.0	6.3	8.6			512	"
July	5.8	2.3	3.2			197	"
August	2.8	1.6	2.1			129	"
September	2.7	2.3	2.5			149	"
The year period	704	1.6	17.9			15,180	

NOTE: Discharges from June 15, 1928 to September 30, 1928, are interpolated from actual stream measurements. During this period the stream was below the openings in the stilling well.

 EAST FORK SAN GABRIEL RIVER - CAMP BONITA P.W.D.

Location:
At Camp Bonita on East Fork San Gabriel River about 500 ft. above junction of Cattle Canyon with the East Fork. 4 miles above San Gabriel Canyon Forks. 16 miles northeast of Azusa, Los Angeles County, California.

Drainage Area:
58.18 sq. mi., measured on U.S.G.S. topographic map.

Installed By:
Pasadena Water Department Nov. 6, 1924.

Records Available:
From Oct. 1, 1927 to Sept. 30, 1928 at Flood Control.
From Nov. 6, 1924 to Sept. 30, 1928, (incomplete) at Pasadena Water Dept.

Gage:
Staff gage installed on east bank of stream at recorder stilling well. Stevens continuous water stage recorder installed in corrugated iron stilling well.

Discharge Measurements:
Low water measurements made near gage. High water measurements made from cable car located about 50 ft. below gage.

Channel and Control:
Channel at gage sand, gravel and boulders, rock banks. No control.

Extremes of Discharge:

Maximum	267.0	c.f.s.	Feb. 4,	1928.
	92	"	" 3,	"
	86	"	" 5,	"
	63.2	"	March 5,	"
Minimum	5.4	"	Sept.20,	"

Diversions:
No diversions above gage.

Regulation:
None

Accuracy:
Poor, due to lack of control and backwater effects from Cattle Canyon during high flows.

Cooperation:
Operated by Pasadena Water Department previous to Oct. 1, 1927, now operated by Los Angeles County Flood Control District in cooperation with Pasadena Water Department and U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 -500- 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P 2

Discharge measurements of EAST FORK SAN GABRIEL River

at Camp Bonita, below Cattle Canyon Junct., during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1	1-31	Crawford et al	51.2	16.84	1.28	1.09	21.60		.6			0		P 2
2	2-4	Wheeler & Stewart	24C.	16.1	3.95	1.70	173.15		.6			0		271-588
3	2-5	" "	48.0	32.2	2.78	1.45	89.64		.6			0		"
4	3-3	" & La Rue	39.0	23.85	2.20	1.23	52.58		.6			a.01		"
5	3-3	" " "	38.0	24.20	1.82	1.23	44.10		.6			0		"
6	3-4	" " "	39.0	26.0	1.70	1.20	44.24		.6			0		"
7	3-5	" & Patterson	29.0	28.45	1.83	1.22	52.04		.6			0		"
8	3-5	" & La Rue	40.0	29.45	2.04	1.29	60.05		.6			0		"
9	3-5	" " "	40.0	29.85	2.12	1.31	63.22		.6			0		"
10	3-26	Crawford&Patterson	41.0	28.20	1.68	1.24	47.46		.6			0		262-556
11	5-24	W. H. Crawford	26.0	14.50	1.40	1.07	24.62		.6			0		"
12	6-13	R. P. Dalton	24.0	13.50	1.04	1.03	17.07		.6			0		-
13	6-20	" " "				1.03	17.18		.6			0		-
14	7-5	" " "	22.0	12.16		0.97	13.26		.6			0		271-647.
15	7-13	" " "	12.0	6.56		0.95	10.93		.6			0		"
16	7-27	" " "	11.0	5.92	1.45	0.90	9.46		.6			0		"
17	8-8	Dalton & Tompkins	11.5	5.77	1.43	0.92	9.52		.6			0		885
18	8-9	" "	11.5	6.32	1.28	.90	8.86		.6			0		"
19	8-23	Rupert&Blakeley	23.0			.91	9.45		.6			0		P 2
20	9-26	R. P. Dalton	11.0	5.56	1.08	.92	6.98		.6			0		271-647

F. C. Dist. Form 101—1M—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P1

Daily gage height, in feet, ~~discharge, in second-feet~~ of EAST FORK, SAN GABRIEL

for the year ending Sept. 30, 1928

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	2.64	2.95	2.69	2.75	2.63	2.49	2.52	2.48	2.35	2.28	2.20	2.18
2	2.64	2.85	2.68	2.74	2.63	2.49	2.52	2.48	2.34	2.26	2.22	2.17
3	2.62	2.81	2.67	2.75	H	2.55	2.56	2.47	2.33	2.25	2.22	2.17
4	2.62	2.78	2.68	2.81	H	2.54	2.54	2.46	2.32	2.25	2.23	2.18
5	2.62	2.77	2.70	2.83	H	2.63	2.52	2.45	2.31	2.25	2.23	2.18
6	2.61	2.79	2.70	2.80	2.78	2.65	2.49	2.44	2.30	2.25	2.23	2.18
7	2.61	2.79	2.71	2.76	2.72	2.61	2.48	2.45	2.29	2.25	2.21	2.18
8	2.60	2.79	2.70	2.76	2.70	2.59	2.48	2.46	2.29	2.25	2.21	2.19
9	2.60	2.78	2.69	2.76	2.68	2.58	2.47	2.50	2.31	2.24	2.20	2.20
10	2.60	2.86	H	2.75	2.66	2.58	2.48	2.52	2.31	2.24	2.19	2.18
11	2.60	2.83	2.86	2.74	2.63	2.57	2.48	2.49	2.32	2.24	2.19	2.20
12	2.59	2.79	2.80	2.73	2.61	2.57	2.49	2.47	2.33	2.24	2.19	2.21
13	2.59	2.78	2.75	2.73	2.60	2.58	2.50	2.47	2.32	2.24	2.19	2.20
14	2.59	2.78	2.74	2.73	2.60	2.59	2.50	2.47	2.31	2.23	2.20	2.19
15	2.57	2.77	2.73	2.76	2.60	2.58	2.50	2.47	2.31	2.23	2.20	2.18
16	2.57	2.75	2.73	2.75	2.59	2.57	2.50	2.47	2.30	2.23	2.21	2.18
17	2.56	2.74	2.74	2.70	2.57	2.56	2.50	2.47	2.30	2.23	2.21	2.17
18	2.56	2.73	2.75	2.68	2.55	2.56	2.50	2.47	2.31	2.23	2.21	2.17
19	2.57	2.72	2.75	2.67	2.55	2.56	2.49	2.47	2.31	2.23	2.20	2.17
20	2.58	2.72	2.73	2.67	2.55	2.55	2.49	2.45	2.32	2.23	2.20	2.16
21	2.58	2.71	2.76	2.67	2.54	2.54	2.49	2.44	2/32	2.22	2.20	2.16
22	2.59	2.71	2.78	2.65	2.54	2.54	2.48	2.42	2.31	2.22	2.20	2.17
23	2.59	2.71	2.75	2.65	2.53	2.54	2.48	2.39	2.30	2.22	2.20	2.17
24	2.60	2.71	2.73	2.65	2.52	2.54	2.47	2.38	2.29	2.21	2.18	2.17
25	2.60	2.71	2.75	2.65	2.51	2.56	2.47	2.37	2.28	2.20	2.18	2.17
26	2.67	2.71	2.82	2.65	2.50	2.59	2.46	2.37	2.28	2.20	2.18	2.17
27	2.74	2.70	2.82	2.65	2.50	2.58	2.46	2.37	2.28	2.20	2.18	2.19
28	2.75	2.70	2.77	2.65	2.49	2.58	2.47	2.37	2.28	2.20	2.18	2.18
29	2.71	2.69	2.76	2.65	2.49	2.57	2.47	2.37	2.28	2.20	2.18	2.18
30	2.67	2.69	2.76	2.65	---	2.54	2.48	2.36	2.28	2.20	2.18	2.18
31	H	--	2.77	2.64	---	2.53	---	2.36	---	2.20	2.18	---

L.C.D.C. Form 303—500—6-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P 2

Rating table for EAST FORK SAN GABRIEL RIVER

near Camp Sonita *.from* Oct. 1 ,19 27 *.to* Feb. 3 ,19 33.

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
2.55	11.7													
.60	14.7													
.65	17.9													
.70	21.8													
.75	25.8													
.80	30.4													
.85	35.7													
.90	41.1													
.95	46.8													
3.00	52.7													

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Correction Curve applied from Oct. 1, 1932 to Jan. 17, 1938.

Computed by MAA

Checked by EEB

Date Oct. 31, 1933.

L. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 2 2

Rating table for EAST FORK SAN GABRIEL RIVER

near Camp Bonita, *from* Feb. 3, 19 28, *to* Sept. 30, 19 28.

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
2.17	6.0					3.15	119							
.20	7.8					.20	131							
.25	10.7					.25	143							
.30	13.7					.30	155							
.35	17.2					.35	168							
.40	20.9					.40	181							
.45	24.9					.45	194							
.50	29.2					.50	207							
.55	33.7					.55	220							
.60	38.3					.60	233							
.65	43.0					.65	246							
.70	48.0					.70	259							
.75	53.4					.75	272							
.80	59.3					.80	285							
.85	65.4					.85	298							
.90	72.0					.90	311							
.95	79.5					.95	324							
3.00	88.0					4.00	337							
.05	98.0													
.10	108.													

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during 1927-28

and is ..... well defined between ..... second-feet and ..... second-feet.

The discharges are exterpolated beyond the gage height of 3.50, using a constant of 13 c.f.s. increase in discharge per .05 rise in gage height.

Computed by HAR

Checked by EEB

Date Oct. 31, 1928.

Height, in Feet, and Discharge, in Second-Feet, of EAST FORK, SAN GABRIEL River ~~Creek~~

Camp Bonita

for the Year Ending September 30, 1928.

03.0 Square Miles. [STEVENS WATER STAGE RECORDER Observer.]

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 03-11

Gage Read to Continuously One Twice a Day. Used rating table dated

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1	2.64	17.3	2.95	46.8	2.69	21.0	2.75	25.8	2.63	16.6	2.49	28.3	2.52	31.0	2.48	27.5	2.35	17.2	2.28	12.5	2.20	7.8	2.18	6.6	1
2	2.64	17.3	2.85	35.7	2.68	20.2	2.74	25.0	2.63	16.6	2.49	28.3	2.52	31.0	2.48	27.5	2.34	16.5	2.26	11.3	2.22	9.0	2.17	6.0	2
3	2.62	16.0	2.81	31.5	2.67	19.5	2.75	25.8	H	64.4	2.55	33.7	2.56	34.6	2.47	26.6	2.33	15.8	2.25	10.7	2.22	9.0	2.17	6.0	3
4	2.62	16.0	2.78	28.6	2.68	20.2	2.81	31.5	H	168.	2.54	32.8	2.54	32.8	2.46	25.8	2.32	15.1	2.25	10.7	2.23	9.5	2.18	6.6	4
5	2.62	16.0	2.77	27.6	2.70	21.8	2.83	33.6	H	74.6	2.63	41.1	2.52	30.1	2.45	24.9	2.31	14.4	2.25	10.7	2.23	9.5	2.18	6.6	5
6	2.61	15.3	2.79	29.5	2.70	21.8	2.80	30.4	2.78	56.7	2.65	43.0	2.49	28.3	2.44	24.1	2.30	13.7	2.25	10.7	2.23	9.5	2.18	6.6	6
7	2.61	15.3	2.79	29.5	2.71	22.6	2.76	26.7	2.72	50.2	2.61	39.2	2.48	27.5	2.45	24.9	2.29	13.1	2.25	10.7	2.21	8.4	2.18	6.6	7
8	2.60	14.7	2.79	29.5	2.70	21.8	2.76	26.7	2.70	48.0	2.59	37.4	2.48	27.5	2.46	25.8	2.29	13.1	2.25	10.7	2.21	8.4	2.19	7.2	8
9	2.60	14.7	2.78	28.6	2.69	21.0	2.76	26.7	2.68	46.0	2.58	36.4	2.47	26.6	2.50	29.2	2.31	14.4	2.24	10.1	2.20	7.8	2.20	7.8	9
10	2.60	14.7	2.86	36.8	H	39.8	2.75	25.8	2.66	44.0	2.58	36.4	2.48	27.5	2.52	30.1	2.31	14.4	2.24	10.1	2.19	7.2	2.18	7.2	10
11	2.60	14.7	2.83	33.6	2.86	36.8	2.74	25.0	2.63	41.1	2.57	35.5	2.48	27.5	2.49	28.3	2.32	15.1	2.24	10.1	2.19	7.2	2.20	7.8	11
12	2.59	14.1	2.79	29.5	2.80	30.4	2.73	24.2	2.61	39.2	2.57	35.5	2.49	28.3	2.47	26.6	2.33	15.8	2.24	10.1	2.19	7.2	2.21	8.4	12
13	2.59	14.1	2.78	28.6	2.75	25.8	2.73	24.2	2.60	38.3	2.58	36.4	2.50	29.2	2.47	26.6	2.32	15.1	2.24	10.1	2.19	7.2	2.20	7.8	13
14	2.59	14.1	2.78	28.6	2.74	25.0	2.73	24.2	2.60	38.3	2.59	37.4	2.50	29.2	2.47	26.6	2.31	14.4	2.23	9.5	2.20	7.8	2.19	7.2	14
15	2.57	13.9	2.77	27.6	2.73	24.2	2.76	26.7	2.60	38.3	2.58	36.4	2.50	29.2	2.47	26.6	2.31	14.4	2.23	9.5	2.20	7.8	2.18	6.6	15
16	2.57	13.9	2.75	25.8	2.73	24.2	2.75	25.8	2.59	37.4	2.57	35.5	2.50	29.2	2.47	26.6	2.30	13.7	2.23	9.5	2.21	8.4	2.18	6.6	16
17	2.56	12.3	2.74	25.0	2.74	25.0	2.70	21.8	2.57	35.5	2.56	34.6	2.50	29.2	2.47	26.6	2.30	13.7	2.23	9.5	2.21	8.4	2.17	6.0	17
18	2.56	12.3	2.73	24.2	2.75	25.8	2.68	20.4	2.55	33.7	2.56	34.6	2.50	29.2	2.47	26.6	2.31	14.4	2.23	9.5	2.21	8.4	2.17	6.0	18
19	2.57	12.9	2.72	23.4	2.75	25.8	2.67	19.5	2.55	33.7	2.56	34.6	2.49	28.3	2.47	26.6	2.31	14.4	2.23	9.5	2.20	7.8	2.17	6.0	19
20	2.58	13.5	2.72	23.4	2.73	24.2	2.67	19.5	2.55	33.7	2.55	33.7	2.49	28.3	2.45	24.9	2.32	15.1	2.23	9.5	2.20	7.8	2.16	5.4	20
21	2.59	13.5	2.71	22.6	2.76	26.7	2.67	19.5	2.54	32.8	2.54	32.8	2.49	28.3	2.44	24.1	2.32	15.1	2.22	9.0	2.20	7.8	2.16	5.4	21
22	2.59	14.1	2.71	22.6	2.78	28.6	2.65	17.9	2.54	32.8	2.54	32.8	2.48	27.5	2.42	22.5	2.31	14.4	2.22	9.0	2.20	7.8	2.17	6.0	22
23	2.59	14.1	2.71	22.6	2.75	25.8	2.65	17.9	2.53	31.9	2.54	32.8	2.48	27.5	2.39	20.2	2.30	13.7	2.22	9.0	2.20	7.8	2.17	6.0	23
24	2.60	14.7	2.71	22.6	2.73	24.2	2.65	17.9	2.52	31.0	2.54	32.8	2.47	26.6	2.38	19.4	2.29	13.1	2.21	8.4	2.18	6.6	2.17	6.0	24
25	2.60	14.7	2.71	22.6	2.75	25.8	2.65	17.9	2.51	30.1	2.56	34.6	2.47	26.6	2.37	18.7	2.28	12.5	2.20	7.8	2.18	6.6	2.17	6.0	25
26	2.67	19.5	2.71	22.6	2.82	32.5	2.65	17.9	2.50	29.2	2.59	37.4	2.46	25.8	2.37	18.7	2.28	12.5	2.20	7.8	2.18	6.6	2.17	6.0	26
27	2.74	25.0	2.70	21.8	2.82	32.5	2.65	17.9	2.50	29.2	2.58	36.4	2.46	25.8	2.37	18.7	2.28	12.5	2.20	7.8	2.18	6.6	2.19	7.2	27
28	2.75	25.8	2.70	21.8	2.77	27.6	2.65	17.9	2.49	28.3	2.58	36.4	2.47	26.6	2.37	18.7	2.28	12.5	2.20	7.8	2.18	6.6	2.18	6.6	28
29	2.71	22.6	2.69	21.0	2.76	26.7	2.65	17.9	2.49	28.3	2.57	35.5	2.47	26.6	2.37	18.7	2.28	12.5	2.20	7.8	2.18	6.6	2.18	6.6	29
30	2.67	19.5	2.69	21.0	2.76	26.7	2.65	17.9	....	.....	2.54	32.8	2.48	27.5	2.36	17.9	2.28	12.5	2.20	7.8	2.18	6.6	2.18	6.6	30
31	H	35.7	....	.....	2.77	27.6	2.64	17.3	....	.....	2.53	31.9	....	.....	2.36	17.9	....	....	2.20	7.8	2.18	6.6	....	....	31
		508.3		815.0		801.6		707.2		1227.9		1087.0		853.3		747.9		425.1		295.0		240.3		197.4	7906
		16.4		27.2		25.9		22.8		42.3		35.1		28.4		24.1		14.2		9.5		7.8		6.6	18.1
		1008		1618		1592		1402		2433		2158		1690		1482		845		584		480		393	15,685
		33.7		46.8		39.8		33.6		168.		42.0		34.6		30.1		17.2		12.5		9.5		7.8	168.
		12.3		21.0		19.5		17.3		16.6		28.3		26.6		17.9		12.5		7.8		6.6		5.4	5.4

Quarter: First Second Third Fourth

Computed MAR MAR MAR MAR

Checked MAR MAR MAR MAR

Disch. applied MAR MAR MAR MAR

Disch. checked LEB LEB LEB LEB

G. H. Copied LEB MAR MAR MAR

G. H. checked LEB LEB LEB LEB

Date October 20, 1928

PERIOD YEAR

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P2

Monthly discharge of EAST FORK SAN GABRIEL River

near CAMP BONITA, P.W.D. for the year ending Sept. 30, 1928

(Drainage area 58.0 square miles)

MONTH	Mean Daily DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	Fair
October	33.7	12.3	16.4			1008	"
November	46.8	21.0	27.2			1618	"
December	39.8	19.5	25.9			1592	"
January	33.6	17.3	22.8			1402	"
February	168.0	16.6	42.3			2433	"
March	43.0	28.3	35.1			2158	"
April	34.6	26.6	28.4			1690	"
May	30.1	17.9	24.1			1482	"
June	17.2	12.5	14.2			845	"
July	12.5	7.8	9.5			584	"
August	9.5	6.6	7.8			480	"
September	7.8	5.4	6.6			393	"
The year period	168.0	5.4	18.5			15,685	

NOTE: Correction curve applied from October 1st, 1928 to January 17th, 1928.

F 4 1-15

BIG SANTA ANITA NEAR SIERRA MADRE, CALIFORNIA

Location:
In Big Santa Anita Canyon about ½ mile below Los Angeles County Flood Control dam, approximately 4 miles north of Arcadia, Los Angeles County, California.

Drainage Area:
11.22 sq.mi.

Installed By:
Los Angeles County Flood Control District, Hydrographic Dept. on Aug. 19, 1927.

Records Available:
August 19, 1927 to Sept. 30, 1928.

Gage:
An Continuous Water Stage Recorder located in rubble concrete house on east bank of stream between gaging bridge and weir. Staff gages on stilling well and stilling well house structure.

Discharge Measurements:
Made by wading about 75 ft. below gage or 15 ft. above gage. High water measurements from gaging bridge 15 ft. above gage.

Channel and Control:
Channel of sand, rock and gravel. Control by 35 ft. rubble, concrete weir 18 ft. below recorder house, with 24 in. crest cippoleti weir 12 in. deep with clean-out pipe.

Extremes of Discharge:
Maximum 16.0 c.f.s. Feb. 5, 1928
Minimum .02 c.f.s. Jan. 26-30, 1928.

Diversion:
No diversion above gage.

Regulation:
Flow regulated by discharge through Los Angeles County Flood Control dam.

Accuracy:
Good at low flows.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperation with U.S.G.S., Water Resources Branch.

F. C. Dist. Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 21

Discharge measurements of BIG SANTA ANITA Creek

at below dam
near ..., during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Per cent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.							271
1	2-22	R. P. Dalton	6.1	3.35	0.73	0.51	2.46		.6		7	0	1/2	647
2	3-8	" " "	2.4	1.42	.53	.22	.74		.6		6	0	1/6	"
3	4-7	" " "	2.6	1.78	1.56	.56	2.78		.6		5	0	1/6	"
4	4-12	" " "	2.2	1.54	1.24	.46	1.91		.6		5	0	1/12	"
5	4-12	" " "	13.5	16.58	.97	1.31	16.02		.6		7	a.02	1/3	"
6	4-12	C. L. Brewster	14.7	16.75	1.08	1.32	18.09		.6		7	0	1/6	271 650
7	4-12	R. P. Dalton	15.0	15.35	0.59	1.23	9.08		.6		6	-.14	1/4	271 647
8	4-12	C. L. Brewster	12.7	14.53	.76	1.26	11.08		.6		7	-.13	1/5	271 650
9	4-12	" " "	13.0	13.65	.71	1.17	9.73		.6		7	0	1/6	"
10	4-12	R. P. Dalton	13.0	14.37	.66	1.17	9.51		.6		7	-.01	1/6	271 647
11	4-12	C. L. Brewster	11.0	13.15	.70	1.12	8.47		.6		6	-.08	1/5	271 650
12	4-12	" " "	8.6	8.56	.69	.97	5.89		.6		5	-.02	1/10	"
13	4-12	R. P. Dalton	8.5	9.02	.64	.95	5.79		.6		4	-.01	1/12	271 647
14	4-12	" " "	8.5	8.22	.62	.89	5.12		.6		8	-.15	1/6	"
15	4-12	" " "	11.0	11.55	.56	1.11	6.46		.6		6	-.08	1/12	"
16	4-12	C. L. Brewster	8.0	7.60	.66	.84	5.04		.6		8	-.17	1/6	271 650
17	5-9	R. P. Dalton	2.9	1.82	.40	.21	.76		.6		5	0	1/6	271 647

L.C.Dist.Form 101—1M—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 21

Daily gage height, in feet, ~~discharge, in second-feet~~ of Big Santa Anita Creek below dam for the year ending Sept. 30, 19 27.

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												.43
2												.43
3												.43
4												.43
5												.42
6												.42
7												.42
8												.41
9												.41
10												.40
11												.40
12												.40
13												.40
14												.43
15												.44
16												.50
17												.52
18												.51
19											H	.53
20											.47	.54
21											.47	I .55
22											.47	I .57
23											.46	I .59
24											.46	I .61
25											.47	.62
26											.46	.82
27											.46	.82
28											.46	.91
29											.44	1.14
30											.44	1.13
31											.43	

Gage Heights Interpolated Sept. 21-24, 1928.

Recorder on exhibit at Pomona County Fair.

U.S. Dept. Form 10-2—5078—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 21

Monthly discharge of BIG SANTA ANITA ~~River~~ Creek

at near Below Dam

for the year ending Sept. 30, 1927

(Drainage area 10.97 square miles)

MONTH	Mean daily DISCHARGE IN SECOND-FEET			RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January							
February							
March							
April							
May							
June							
July							
August 19th -31st	3.44	1.91	2.33			84.63	
September	9.10	1.75	2.98			178.75	
The year period						263.38	

NOTE: Recorder installed August 19, 1927.

U. S. Dept. Form 10a—IWS—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 21

Daily gage height, in feet, ~~discharge in second feet~~ of Big Santa Anita Creek below dam for the year ending Sept. 30, 1928.

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	1.12	.37	.32	I .59	.87	.22	.26	.18	.22	.21	.27	.25
2	1.10	.31	.37	I .58	H	.22	.26	.23	.21	.21	.27	.25
3	1.11	H	.35	I .57	.34	.30	I .33	I .19	.21	.22	.27	.25
4	1.12	.49	.33	I .55	H	.31	I .40	I .19	.21	.22	.27	.25
5	1.10	H	.29	I .54	H	.32	I .48	I .19	.21	.21	.27	.25
6	1.09	H	.33	I .53	.98	.23	.55	I .19	.20	.21	.26	.25
7	1.07	.32	.34	I .52	H	.23	.56	I .20	.20	.22	.25	.24
8	1.06	I .31	.33	I .51	.34	.22	.54	I .20	.20	.21	.25	.24
9	1.05	I .20	.34	I .50	.32	.23	.53	I .20	.18	.25	.25	.25
10	1.03	I .29	H	I .49	.28	.23	.49	.20	.17	.25	.25	.25
11	1.01	I .28	.07	I .48	.31	.23	.46	.19	.17	.22	.26	.25
12	.99	I .26	H	I .46	.30	.24	H	.19	.17	.22	.25	.25
13	.99	I .25	.26	I .44	.30	.24	.46	.20	.16	.21	.25	.25
14	.96	I .24	.26	I .43	.30	.25	.41	.20	.20	.20	.26	.25
15	.93	I .23	H	I .46	.30	.25	.37	.20	.20	.20	.26	.25
16	.86	I .21	H	I .47	.30	.26	.37	.20	.20	.19	.25	.25
17	.81	I .20	.35	I .48	.49	.26	.37	.20	.20	.23	.25	.25
18	.75	.19	.34	I .43	.39	.25	.38	.20	.20	.25	.25	.25
19	a .83	.21	.34	I .39	.45	.25	.40	.20	.20	.26	.25	.25
20	.97	.37	.33	I .33	.50	.24	.40	.20	.20	.27	.25	.24
21	.84	H	.33	I .28	.50	.25	.37	.20	.20	.26	.25	.22
22	H	.33	.30	I .24	.51	.24	.35	.20	.20	.26	.25	.22
23	H	.32	.33	I .19	.51	.25	.33	.20	.21	.26	.25	.24
24	H	.28	.32	I .14	.51	.26	.25	.20	.21	.26	.25	.25
25	.25	.31	.58	I .09	.44	.26	.21	.20	.22	.26	.25	.26
26	H	.32	.95	I .04	.30	.26	.19	.20	.24	.26	.25	.26
27	H	.37	.83	.04	H	.26	.19	.20	.22	.25	.25	.26
28	.30	.34	.69	.04	.42	.26	.19	.21	.22	.25	.25	.26
29	.27	.33	.65	.04	H	.26	.19	.21	.21	.25	.25	.26
30	.28	.32	.66	.04		.26	.17	.21	.21	.26	.24	.26
31	.25		.60	H		.26		.22		.26	.24	

H = Varying Hourly Gage Heights

I = Interpolated Gage Heights

a = Note change on Record.

L.C.D.-t. Form 10.—300—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 21

Rating table for BIG SANTA ANITA CREEK

below dam, *from* Aug. 19, 27, *to* Sept. 30, 28

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
0.00	0.00		0.40	1.73		0.80	4.53		1.20	11.30		1.60	36.9	
.02	.00		.42	1.85		.82	4.69		.22	12.10		.62	38.8	
.04	.02		.44	1.98		.84	4.85		.24	13.00		.64	40.8	
.06	.09		.46	2.11		.86	5.01		.26	13.9		.66	42.8	
.08	.17		.48	2.24		.88	5.17		.28	14.9		.68	45.0	
.10	.25		.50	2.37		.90	5.33		.30	15.9		.70	47.2	
.12	.33		.52	2.50		.92	5.49		.32	16.9		.72	49.5	
.14	.41		.54	2.63		.94	5.66		.34	17.9		.74	52.0	
.16	.49		.56	2.77		.96	5.83		.36	19.0		.76	54.5	
.18	.57		.58	2.91		.98	6.00		.38	20.1		.78	57.0	
.20	.66		.60	3.05		1.00	6.17		.40	21.3		.80	59.5	
.22	.75		.62	3.19		.02	6.34		.42	22.6		.82	62.0	
.24	.85		.64	3.33		.04	6.51		.44	23.9		.84	64.7	
.26	.95		.66	3.47		.06	6.82		.46	25.3		.86	67.5	
.28	1.05		.68	3.62		.08	7.32		.48	26.7		.88	70.3	
.30	1.15		.70	3.77		.10	8.00		.50	28.2		.90	73.5	
.32	1.26		.72	3.92		.12	8.50		.52	30.8		.92	76.7	
.34	1.37		.74	4.07		.14	9.10		.54	31.5		.94	79.9	
.36	1.49		.76	4.22		.16	9.80		.56	33.2		.96	83.1	
.38	1.61		.78	4.37		.18	10.50		.58	35.0		.98	86.3	

The above table is not applicable for obstructed channel conditions. It is based on seventeen discharge measurements made during Feb. 22 to Sept. 30, 1928,

and is well defined between 0.5 second-feet and 18.0 second-feet.

Computed by MAR

Checked by MAR

Date Oct. 26, 1928.

L.C.Dist.Form 103—508—9.28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 21

Rating table for BIG SANTA ANITA CREEK

below dam, *from* Aug. 19, 19 27, *to* Sept. 30, , 19 28

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
2.00	89.5		2.40	187.0										
2.02	93.0		.42	194.0										
2.04	96.5		.44	201.0										
2.06	100.0		.46	208.0										
2.08	104.0		.48	215.0										
2.10	108.0		.50	222.0										
2.12	112.0		.52	229.0										
2.14	116.0		.54	237.0										
2.16	121.0		.56	245.0										
2.18	126.0		.58	253.0										
2.20	131.0		.60	261.0										
2.22	136.0		.68	293.0										
2.24	141.0													
2.26	146.0													
2.28	151.0													
2.30	157.0													
2.32	163.0													
2.34	169.0													
2.36	175.0													
2.38	181.0													

The above table is not applicable for obstructed channel conditions. It is based on seventeen discharge measurements made during Feb. 22 to Sept. 30, 1928

and is well defined between 0.5 second-feet and 18.0 second-feet.

Computed by HAR

Checked by HAR

Date Oct. 26, 1928.

F 22 MONROVIA CANYON - ABOVE SAWPIT CREEK

Location:
In Monrovia Canyon 200 ft. above junction with Sawpit Creek, about 3 miles northeast of town of Monrovia, Los Angeles County, California.

Drainage Area:
1.90 sq.mi., measured on U.S.G.S. topographic map.

Installed By:
Los Angeles County Flood Control District Nov.10, 1927.

Records Available:
From Nov. 10, 1927 to Sept. 30, 1928.

Gage:
Staff gage installed on rubble masonry recorder house on west bank of stream. An continuous water stage recorder installed.

Discharge Measurements:
Wading measurements made at gage. High water measurements made by measuring from bridge at gage.

Channel and Control:
Channel rock and gravel. Concrete control located 10 ft. below gage with low water opening built similar to 2 ft. crest cippoleti weir. Depth of opening
Zero of gage at crest of low water opening.

Extremes of Discharge:

Maximum	0.84	c.f.s. Feb. 4, 1928
Minimum	0.05	c.f.s. July 30 - 31, 1928.

Diversions:
Monrovia pipe line diverts above gage.

Regulation:
None

Accuracy:
Good for low flows.

Cooperation:
Located and operated by Los Angeles County Flood Control District in cooperation with U.S.G.S. Water Resources Branch.

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

Discharge measurements of MONROVIA CREEK ~~River~~ ~~Creek~~

at above Sawpit Creek ~~near~~, during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Mea. secs.	G. Ht. change	Time	Meter No.
			Feet	*Sq.-ft.*	*Ft. per sec.*	*Feet*	*Sec.-ft.*	*Per cent diff.*			*No.*	*Total*	*Hours*	
1	2-4	R. F. Dalton	6.4	3.14	3.43	0.37	1.08		.6		12	0	1/2	332
2	3-24	" " "	1.3	.24	.58	.10	.14		.6		4	0	1/3	271-647

F. C. Dist.—Form 105- 500 - 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 21

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of BIG SANTA ANITA ~~Canyon~~ Creek

At / Near below Dam

For the Year Ending September 30, 19 28.

Drainage Area 10.97 Square Miles.

[Au Continuous Water Stage Recorder Observer.]

Gage Read to Continuous ~~Chart~~ a Day.

Used rating table dated Oct. 16, 1928.

Discharge ..... second-feet.
Discharge ..... second-feet.
Maximum stage ..... feet at ..... on
Minimum stage ..... feet at ..... on

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1	1.12	8.50	0.27	1.00	0.32	1.26	0.59	2.98	0.87	5.09	0.22	0.75	0.26	0.95	0.18	0.57	0.22	0.75	0.21	0.70	0.27	1.00	0.25	0.90	1
2	1.10	8.00	.31	1.20	.37	1.55	.58	2.91	H	2.39	.22	.75	.26	.95	.23	.80	.21	.70	.21	.71	.27	1.00	.25	.90	2
3	1.11	8.25	H	1.77	.35	1.43	.57	3.84	.34	1.07	.20	.66	.33	1.31	.19	.61	.21	.71	.22	.75	.27	1.00	.25	.90	3
4	1.13	8.50	.49	2.30	.33	1.32	.55	2.70	H	5.32	.21	.70	.40	1.73	.19	.61	.21	.70	.22	.75	.27	1.00	.25	.90	4
5	1.10	8.00	H	1.01	.29	1.10	.54	2.65	H	9.53	.22	.75	.48	2.24	.19	.61	.21	.71	.21	.70	.27	1.00	.25	.90	5
6	1.09	7.66	H	0.61	.32	1.31	.53	2.56	.98	6.00	.23	.80	.55	2.70	.19	.61	.20	.66	.21	.71	.26	.95	.25	.90	6
7	1.07	7.07	.32	1.26	.34	1.37	.52	2.50	H	8.94	.23	.80	.56	2.77	.20	.66	.20	.66	.22	.75	.25	.90	.24	.85	7
8	1.06	6.82	.31	1.20	.33	1.31	.51	2.43	.54	2.63	.22	.75	.54	2.63	.20	.66	.20	.66	.21	.71	.25	.90	.24	.85	8
9	1.05	6.60	.30	1.15	.34	1.37	.50	2.37	.62	8.19	.22	.75	.53	2.56	.20	.66	.18	.57	.25	.90	.25	.90	.25	.90	9
10	1.03	6.43	.29	1.10	H	1.25	.49	2.30	.63	3.36	.23	.80	.49	2.30	.20	.66	.17	.53	.25	.90	.25	.90	.25	.90	10
11	1.01	6.25	.28	1.05	.07	.13	.48	2.24	.61	3.12	.23	.80	.46	2.11	.19	.61	.17	.53	.22	.75	.26	.95	.25	.90	11
12	.99	6.08	.26	.95	H	0.75	.46	2.11	.60	3.05	.24	.85	H	2.85	.19	.61	.17	.53	.22	.75	.25	.90	.25	.90	12
13	.99	6.08	.25	.90	.36	1.49	.44	1.98	.60	3.05	.24	.85	.46	2.11	.20	.66	.16	.49	.21	.71	.25	.90	.25	.90	13
14	.96	5.85	.24	.85	.36	1.49	.45	2.04	.60	3.05	.25	.90	.41	1.79	.20	.66	.20	.66	.20	.66	.26	.95	.25	.90	14
15	.92	5.49	.23	.80	H	0.91	.46	2.11	.60	3.05	.25	.90	.37	1.55	.20	.66	.20	.66	.20	.66	.26	.95	.25	.90	15
16	.86	5.01	.21	.70	H	1.14	.47	2.17	.60	3.05	.26	.95	.37	1.55	.20	.66	.20	.66	.19	.61	.25	.90	.25	.90	16
17	.81	4.61	.20	.66	.35	1.43	.48	2.24	.43	2.30	.26	.95	.37	1.55	.20	.66	.20	.66	.23	.80	.25	.90	.25	.90	17
18	.75	4.14	.19	.61	.34	1.37	.43	1.91	.39	1.67	.25	.90	.33	1.61	.20	.66	.20	.66	.25	.90	.25	.90	.25	.90	18
19	.83	4.77	.21	.70	.34	1.37	.39	1.67	.45	2.04	.25	.90	.40	1.73	.20	.66	.20	.66	.26	.95	.25	.90	.25	.90	19
20	.97	5.91	.37	1.55	.33	1.31	.33	1.32	.30	3.37	.24	.85	.40	1.73	.20	.66	.30	.66	.27	1.00	.25	.90	.24	.85	20
21	.84	4.85	H	1.85	.53	2.56	.28	1.05	.50	3.37	.25	.90	.37	1.55	.20	.66	.20	.66	.26	.95	.25	.90	.22	.75	21
22	H	5.27	.33	1.31	.60	3.05	.24	.85	.31	3.43	.24	.85	.35	1.43	.30	.66	.30	.66	.26	.95	.25	.90	.22	.75	22
23	H	4.74	.32	1.26	.53	2.56	.19	.61	.51	3.43	.25	.90	.33	1.31	.20	.66	.21	.70	.26	.95	.25	.90	.24	.85	23
24	H	1.63	.32	1.31	.52	2.50	.14	.41	.51	3.43	.26	.95	.25	.90	.20	.66	.21	.71	.26	.95	.25	.90	.25	.90	24
25	.25	.90	.31	1.20	.58	2.91	.09	.21	.44	1.98	.26	.95	.21	.70	.20	.66	.22	.75	.26	.95	.25	.90	.26	.95	25
26	H	.97	.32	1.26	.95	5.74	.04	.02	.30	1.15	.26	.95	.19	.61	.20	.66	.24	.85	.26	.95	.25	.90	.26	.95	26
27	H	2.84	.37	1.55	.83	4.77	.04	.02	H	1.66	.26	.95	.19	.61	.20	.66	.22	.75	.25	.90	.25	.90	.26	.95	27
28	.30	1.15	.34	1.37	.62	3.70	.04	.02	.42	1.35	.26	.95	.19	.61	.21	.71	.22	.75	.25	.90	.25	.90	.26	.95	28
29	.27	1.00	.33	1.31	.55	3.40	.04	.02	H	1.54	.26	.95	.19	.61	.21	.70	.21	.70	.25	.90	.25	.90	.26	.95	29
30	.28	1.05	.32	1.26	.66	3.47	.04	.02			.26	.95	.17	.53	.21	.71	.21	.71	.26	.95	.24	.85	.26	.95	30
31	.25	.90			.60	3.05	H	1.04			.26	.95			.22	.75			.26	.95	.24	.85			31
TOTAL,	155.30		35.05		62.37		50.28		87.11		26.61		47.58		20.44		20.06		25.67		28.50		26.80		585.77
Mean Daily Discharge in Second-feet	5.01		1.17		2.01		1.62		3.00		0.86		1.59		0.66		0.67		0.83		0.92		0.89		
Second-feet per square mile																									
Run-off, depth in inches																									
Run-off in acre-feet	308.04		69.52		123.71		99.73		172.78		52.78		94.37		40.54		39.78		50.92		56.53		53.16		1161.86
Maximum Mean Daily Discharge in Second-feet	8.50		2.30		5.74		2.98		9.53		0.95		2.85		0.80		0.85		1.00		1.00		0.95		
Minimum Mean Daily Discharge in Second-feet	.90		.61		0.13		.02		1.15		0.66		0.53		0.57		0.49		0.61		0.85		0.75		

Quarter: First Second Third Fourth
Quarter: First Second Third Fourth
Quarter: First Second Third Fourth
Quarter: First Second Third Fourth

Computed MAR MAR MAR MAR
Checked MAR MAR MAR MAR
Date

G. H. Copied MAR MAR CEB CEB
G. H. checked CEB CEB CEB CEB
Date

Disch. applied MAR MAR MAR MAR
Disch. checked MAR MAR MAR MAR
Date

REMOVED YEAR

F. C. Dist. Form 101—1M—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

Daily gage height, in feet, ~~discharge, in second-feet~~ of MONROVIA CREEK, above Sawpit Creek

for the year ending Sept. 30, 19 28.

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1			0.08	0.10	0.10	RPD 0.08	0.08	0.07	RPD 0.08	0.06	0.05	RPD 0.05
2			.08	.10	.10	.08	.08	RPD .06	.09	.06	.05	.05
3			RPD .08	I .09	.09	RPD .08	.09	.06	.09	RPD .06	.06	.05
4			.10	I .09	RPD H	.09	RPD .08	.05	.08	.06	.06	.05
5			.10	I .09	RPD .18	RPD .10	.08	RPD .06	RPD .08	.06	.06	.05
6			.10	I .09	.15	RPD .08	RPD .08	.06	.08	.06	RPD .06	.05
7			.10	I .09	JVF .14	RPD .08	.08	.06	.08	RPD .06	.06	RPD .05
8			.11	I .09	.13	.08	.08	RPD .06	.07	.06	.06	.05
9			.11	RPD .08	RPD .11	.08	.08	RPD .07	.07	.06	.06	.05
10		RPD 0.09	.15	.08	.11	RPD .08	RPD .08	.07	.07	RPD .05	.06	RPD .05
11		.09	.14	.08	RPD .10	.08	.08	.07	.07	.05	RPD .05	.05
12		.08	.14	.08	.10	.08	.08	.06	.07	.05	.05	.05
13		.08	.14	.08	RPD .09	RPD .08	.09	.06	.06	.05	.04	.05
14		.09	.14	RPD .08	.08	RPD .09	RPD .09	RPD .07	.07	RPD .05	JVF .04	.05
15		RPD .08	.14	.08	.08	.09	.09	.07	.07	.05	.04	.05
16		.08	.13	.08	.08	RPD .08	RPD .08	.07	RPD .07	.04	.04	.05
17		.08	.13	.08	.08	RPD .08	.09	.07	.07	JVF .04	.04	.05
18		.08	.13	.08	RPD .08	.08	RPD .09	.09	RPD .07	.04	.04	.05
19		.08	.12	.08	.08	.09	.09	RPD .09	.08	.05	.05	.05
20		.08	.12	.08	H+D .08	.08	RPD .08	.09	.08	.05	.05	.05
21		.08	RPD .12	.08	.08	.08	.08	.09	RPD .07	RPD .05	.05	.05
22		.08	.08	.08	.08	RPD .08	.07	.09	.07	.05	.05	.05
23		.08	.08	.08	RPD .08	.09	.06	.08	.07	.05	.05	.05
24		.08	.08	RPD .08	.08	RPD .09	.06	.09	.07	.05	.05	.05
25		.08	.08	.08	RPD .08	.08	.06	.08	.06	.05	.05	.05
26		.08	I .08	.08	.08	RPD .08	.07	RPD .08	RPD .06	RPD .05	.05	.05
27		.08	I .09	.08	.08	.08	.08	.08	.06	.05	RPD .05	.05
28		.08	I .09	.08	.08	.08	.07	.08	.06	.05	.05	RPD .05
29		.08	RPD .10	.08	RPD .08	.08	.08	.09	.06	.05	.05	.05
30		.08	.10	RPD .08		.08	.07	RPD .08	RPD .06	RPD .04	.05	.05
31			.10	.09		RPD .08		.08		.04	.05	

L.C.D.-4. Form 105—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

Rating table for MONROVIA CREEK

above Sawpit Creek *from* Nov. 10 ,19 28 *to* Sept. 30 ,19 28.

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
.00	.00					.40	1.21							
.02	.02					.42	1.30							
.04	.05					.44	1.40							
.06	.08					.46	1.50							
.08	.11					.48	1.60							
.10	.15					.50	1.70							
.12	.20					.52	1.81							
.14	.25					.54	1.92							
.16	.31					.56	2.03							
.18	.37					.58	2.14							
.20	.43					.60	2.25							
.22	.50					.62	2.36							
.24	.57					.64	2.47							
.26	.64					.66	2.59							
.28	.71					.68	2.71							
.30	.78					.70	2.83							
.32	.86					.72	2.95							
.34	.94					.74	3.07							
.36	1.03					.76	3.19							
.38	1.12					.78	3.31							

The above table is not applicable for obstructed channel conditions. It is based on two discharge measurements made during February & March 1928

and is well defined between second-feet and second-feet.

Computed by

Checked by

F. C. Dist.—Form 105 500 9-23

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of River / Creek

At / Near .... for the Year Ending September 30, 19

Drainage Area .... Square Miles. Observer. Gage Read in Continuous One / Twice a Day. Used rating table dated October 10, 1928.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1													0.08	0.11	0.07	0.09	0.08	0.11	0.06	0.08	0.05	0.06	0.05	0.06
2													.08	.11	.06	.08	.09	.13	.06	.08	.05	.07	.05	.07
3													.09	.13	.06	.08	.09	.13	.06	.08	.06	.08	.05	.06
4													.08	.11	.05	.06	.08	.11	.06	.08	.06	.08	.05	.07
5													.08	.11	.06	.08	.08	.11	.06	.08	.06	.08	.05	.06
6													.08	.11	.06	.08	.08	.11	.06	.08	.06	.08	.05	.06
7													.08	.11	.06	.08	.08	.11	.06	.08	.06	.08	.05	.06
8													.08	.11	.06	.08	.07	.09	.06	.08	.06	.08	.05	.06
9													.08	.11	.07	.09	.07	.10	.06	.08	.06	.08	.05	.06
10													.08	.11	.07	.10	.07	.09	.05	.06	.06	.08	.05	.06
11													.08	.11	.07	.09	.07	.10	.05	.07	.05	.06	.05	.07
12			.08	.11	.14	.25	.08	.11	.10	.15	.08	.11	.08	.11	.06	.08	.07	.09	.05	.06	.05	.07	.05	.07
13			.08	.11	.14	.25	.08	.11	.09	.13	.08	.11	.09	.13	.06	.08	.07	.10	.05	.07	.04	.05	.05	.07
14			.09	.13	.14	.25	.08	.11	.08	.11	.09	.13	.09	.13	.07	.09	.07	.09	.05	.06	.04	.05	.05	.07
15			.08	.11	.14	.25	.08	.11	.08	.11	.09	.13	.09	.13	.07	.10	.07	.10	.05	.07	.04	.05	.05	.07
16			.08	.11	.13	.22	.08	.11	.08	.11	.08	.11	.08	.11	.07	.09	.07	.09	.04	.05	.04	.05	.05	.06
17			.08	.11	.13	.23	.08	.11	.08	.11	.08	.11	.09	.13	.07	.10	.07	.10	.04	.05	.04	.05	.05	.06
18			.08	.11	.13	.22	.08	.11	.08	.11	.08	.11	.09	.13	.09	.13	.07	.09	.04	.05	.04	.05	.05	.06
19			.08	.11	.12	.20	.08	.11	.08	.11	.09	.12	.09	.13	.09	.13	.08	.11	.05	.06	.05	.06	.05	.06
20			.08	.11	.12	.20	.08	.11	.08	.11	.08	.11	.08	.11	.09	.13	.08	.11	.05	.07	.05	.06	.05	.06
21			.08	.11	.12	.20	.08	.11	.08	.11	.08	.11	.08	.11	.09	.13	.07	.09	.05	.06	.05	.07	.05	.07
22			.08	.11	.08	.11	.08	.11	.08	.11	.08	.11	.07	.09	.09	.13	.07	.10	.05	.07	.05	.07	.05	.07
23			.08	.11	.08	.11	.08	.11	.08	.11	.09	.13	.06	.08	.08	.11	.07	.09	.05	.06	.05	.06	.05	.07
24			.08	.11	.08	.11	.08	.11	.08	.11	.09	.13	.06	.08	.09	.13	.07	.10	.05	.07	.05	.07	.05	.07
25			.08	.11	.08	.11	.08	.11	.08	.11	.08	.11	.06	.08	.08	.11	.06	.08	.05	.06	.05	.06	.05	.07
26			.08	.11	.08	.11	.08	.11	.08	.11	.08	.11	.07	.09	.08	.11	.06	.08	.05	.07	.05	.07	.05	.06
27			.08	.11	.09	.13	.08	.11	.08	.11	.08	.11	.08	.11	.08	.11	.06	.08	.05	.06	.05	.06	.05	.07
28			.08	.11	.09	.13	.08	.11	.08	.11	.08	.11	.07	.10	.08	.11	.06	.08	.05	.07	.05	.07	.05	.06
29			.08	.11	.10	.15	.08	.11	.08	.11	.08	.11	.08	.11	.09	.13	.06	.08	.05	.06	.05	.06	.05	.07
30			.08	.11	.10	.15	.08	.11			.08	.11	.07	.09	.08	.11	.06	.08	.04	.05	.05	.07	.05	.06
31					.10	.15	.09	.13			.08	.11			.08	.11			.04	.05	.05	.06		
TOTAL				2.37		5.34		3.63		4.93		3.57		3.28		3.13		2.93		2.07		2.04		1.94
Mean Daily Discharge in Second-feet				0.11		0.17		0.12		0.17		0.12		.11		.10		.10		.07		.07		.07
Second-feet per square mile																								
Run-off, depth in inches																								
Run-off in acre-feet				4.70		10.59		7.20		9.78		7.08		6.51		6.21		5.81		4.11		4.05		3.85
Maximum Mean Daily Discharge in Second-feet				.13		.28		.13		.34		.13		.13		.13		.13		.08		.08		.07
Minimum Mean Daily Discharge in Second-feet				.11		.11		.11		.11		.11		.08		.06		.08		.05		.05		.06

Period total: 35.23; Run-off: 69.88

Maximum stage .... feet at .... on .... Discharge .... second-feet.
Minimum stage .... feet at .... on .... Discharge .... second-feet.

Oct. 10, 1928.

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

Monthly discharge of MONROVIA ~~RIVER~~ Creek

at near above Sawpit Creek **for the year ending Sept. 30, 19** 28.

(Drainage area 1.9 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November	.13	.11	.11			4.70	
December	.28	.11	.17			10.59	
January	.15	.11	.12			7.20	
February	.84	.11	.17			9.78	
March	.15	.11	.12			7.08	
April	.13	.08	.11			6.51	
May	.13	.06	.10			6.21	
June	.13	.08	.10			5.81	
July	.08	.05	.07			4.11	
August	.08	.05	.07			4.05	
September	.07	.06	.07			3.85	
The ~~year~~ period						69.88	

NOTE:

F 31-K

LIVE OAK CREEK NEAR LA VERNE, CALIFORNIA.

Location:
Near mouth of canyon about 1 mile below Los Angeles County Flood Control Dam about 3 miles northeast of La Verna, Los Angeles County, California.

Drainage Area:
2.54 sq. mi.

Installed By:
Los Angeles County Flood Control District, Hydrographic Department on January 4, 1928.

Records Available:
Jan. 4, 1928 to Sept. 30, 1928 at Los Angeles County Flood Control District.

Gage:
Au continuous stage recorder located in concrete house on west bank of stream. Staff gage on concrete stilling well on west bank of stream.

Discharge Measurements:
Made by wading at gage or from bridge across stream 200 ft. below gage.

Channel and Control:
Channel of sand and gravel, bed rock near gage. Small concrete control with 24 inch crest cippoleti weir 12 inches deep.

Extremes of Discharge:
0.10 c.f.s. on Feb. 4, 1928.
Stream was dry the balance of the year.

Diversions:
No diversions above gage.

Regulation:
Flow regulated by discharge through Los Angeles County Flood Control Dam.

Accuracy:
Good at low flows.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperation with U.S.G.S. Water Resources Board.

L.C.Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 31

Rating table for LIVE OAK CREEK

from Jan. 5 , 19 28 , *to* Sept. 30 , 19 28 .

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
.01	.01																
.02	.02																
.03	.04																
.04	.05																
.05	.08																

From Table for two foot Cippoletti Weirs.

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by MAR

Checked by MAR

Date Oct. 6, 1928.

M. C. 10 Co. Form 105 500 7-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LIVE OAK ~~River~~ Creek

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 31

At / Near Below Live Oak Dam for the Year Ending September 30, 1928.

Drainage Area 2.57 Square Miles. Au Automatic Water Stage Recorder Observer. Gage Read to Continuous Once / Twice Day. Used rating table dated

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
1										0															1
2										0															2
3										0															3
4							Installed		.05	0.08															4
5							0	0																	5
6																									6
7																									7
8																									8
9																									9
10																									10
11																									11
12																									12
13																									13
14																									14
15																									15
16								NO FLOW		NO FLOW		NO FLOW		NO FLOW		NO FLOW		NO FLOW		NO FLOW		NO FLOW		NO FLOW	16
17																									17
18																									18
19																									19
20																									20
21																									21
22																									22
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30																									30
31																									31
TOTAL,																									
Mean Daily Discharge in Second-feet																									
Second-feet per square mile																									
Run-off, depth in inches																									
Run-off in acre-feet																									
Maximum Mean Daily Discharge in Second-feet																									
Minimum Mean Daily Discharge in Second-feet																									

Discharge second-feet on feet at / Discharge second-feet on feet at
Maximum stage / Minimum stage

First Second Third Fourth Quarter — Computed, Checked, Date
First Second Third Fourth Quarter — Disch. applied, Disch. checked, Date
First Second Third Fourth Quarter — G. H. Copied, G. H. checked, Date
PERIOD
YEAR

F.C.Di-t.Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 31

Monthly discharge of LIVE OAK ~~River~~ Creek

at / near Below Live Oak Dam for the year ending Sept. 30, 19 28.

(Drainage area 2.57 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January							
February	One day ----- .08					0.00 plus	
March							
April							
May							
June							
July							
August							
September							
The year / period 1927-28							

NOTE:

No appreciable runoff.

PUDDINGSTONE CREEK BELOW DAM

Location:
Concrete shelter house and stilling well on east side of Puddingstone Channel approximately 1000 ft. below Puddingstone Dam near San Dimas, Los Angeles County, California.

Drainage Area:
33.42 sq.mi.

Installed By:
Los Angeles County Flood Control District, Hydrographic Department on Dec. 28, 1927.

Records Available:
Dec. 28, 1927 to Sept. 30, 1928.

Gage:
Au Continuous Water Stage Recorder located in concrete house on east bank of stream.

Discharge Measurements:
Made by wading near recorder house. Staff gage attached to recorder house.

Channel & Control:
Channel of sand and gravel, bed rock near gage. Reinforced concrete control with 24 in. crest. Cippoletti weir 18 in. deep.

Extremes of Discharge:
Maximum .60 c.f.s. Feb. 4, 1928
Minimum Dry from Jan. 8, 1928 to Jan. 15, 1928.

Diversions:
No diversions above gage.

Regulation:
Flow regulated by discharge through Los Angeles County Flood Control dam 1000 ft. above gage.

Accuracy:
Good

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control in cooperation with the U.S.G.S. Water Resources Branch.

L.C.D.F.C. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 40

Rating table for PUDDINGSTONE CREEK

below Dam, *from* Dec. 28, *19* 27, *to* Sept. 30, *19* 28.

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
.00	.00					.20	.60							
.01	.01					.21	.65							
.02	.02					.22	.69							
.03	.04					.23	.74							
.04	.05					.24	.79							
.05	.08					.25	.84							
.06	.10													
.07	.12													
.08	.15													
.09	.18													
.10	.21													
.11	.25													
.12	.28													
.13	.32													
.14	.35													
.15	.39													
.16	.43													
.17	.47													
.18	.51													
.19	.56													

The above table is not applicable for obstructed channel conditions. It is based on one discharge measurements made during November 1928

Gage height .04 Discharge .005

and is well defined between second-feet and second-feet.

Two foot Cippoletti Weir Table used.

Computed by MAR

Checked by MAR

Date Nov. 16, 1928.

F. C. Dist.—Form 105 520 7-23

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 40

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of .... River/Creek

At/Near .... for the Year Ending September 30, 19..

Drainage Area........ Square Miles. Observer .... Gage Read to Continuous Once/Twice a Day. Used rating table dated Nov. 16, 1928.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
1													.03	.04	.03	.04	.09	.18	.03	.04	.06	.10	.04	.05	1
2							.01	.01	.02	.02	.02	.02	.03	.04	.03	.04	.09	.18	.03	.04	.06	.10	.04	.05	2
3							.01	.01	.03	.04	.03	.04	.04	.05	.04	.05	.09	.18	.03	.04	.06	.10	.04	.05	3
4							.02	.02	.20	.60	.03	.04	.03	.04	.04	.05	.09	.18	.03	.04	.06	.10	.04	.05	4
5							.02	.02	.10	.21	.06	.10	.03	.04	.03	.04	.08	.15	.03	.04	.05	.08	.04	.05	5
6							.01	.01	.10	.21	.02	.18	.03	.04	.03	.04	.06	.10	.04	.05	.05	.08	.04	.05	6
7							.01	.01	.09	.18	.07	.12	.03	.04	.03	.04	.06	.10	.04	.05	.05	.08	.04	.05	7
8							.00	.00	.07	.12	.06	.10	.03	.04	.04	.05	.06	.10	.05	.08	.05	.08	.03	.04	8
9							.00	.00	.05	.08	.06	.10	.03	.04	.05	.08	.06	.10	.05	.08	.05	.08	.01	.01	9
10							.00	.00	.04	.05	.05	.08	.02	.02	.05	.08	.05	.08	.06	.10	.05	.08	.00	.00	10
11							.00	.00	.03	.04	.05	.05	.02	.02	.04	.05	.05	.08	.06	.10	.06	.10	.00	.00	11
12							.00	.00	.04	.05	.05	.08	.02	.02	.03	.04	.05	.08	.05	.08	.06	.10	.00	.00	12
13							.00	.00	.04	.05	.05	.08	.02	.02	.02	.02	.05	.08	.05	.08	.06	.10	.01	.01	13
14							.00	.00	.04	.05	.05	.08	.02	.02	.01	.01	.05	.08	.05	.08	.06	.10	.01	.01	14
15							.00	.00	.05	.08	.05	.08	.02	.02	.01	.01	.05	.08	.05	.08	.06	.10	.01	.01	15
16							.01	.01	.04	.05	.05	.08	.02	.02	.01	.01	.05	.08	.05	.08	.06	.10	.01	.01	16
17							.01	.01	.04	.05	.05	.08	.02	.02	.01	.01	.05	.08	.05	.08	.06	.10	.01	.01	17
18							.01	.01	.06	.10	.04	.05	.02	.02	.02	.02	.06	.10	.05	.08	.08	.10	.01	.01	18
19							.00	.00	.05	.08	.04	.05	.03	.04	.03	.04	.06	.10	.05	.08	.06	.10	.01	.01	19
20							.00	.00	.04	.05	.04	.05	.03	.04	.04	.05	.06	.10	.06	.10	.06	.10	.01	.01	20
21							.00	.00	.04	.05	.03	.04	.03	.04	.03	.04	.05	.08	.06	.10	.06	.10	.01	.01	21
22							.01	.01	.04	.05	.03	.04	.03	.04	.03	.04	.05	.08	.06	.10	.05	.08	.01	.01	22
23							.01	.01	.04	.05	.03	.04	.03	.04	.03	.04	.05	.08	.06	.10	.06	.10	.01	.01	23
24							.02	.02	.04	.05	.03	.04	.03	.04	.03	.04	.05	.08	.06	.10	.05	.08	.01	.01	24
25							.02	.02	.04	.05	.03	.04	.03	.04	.03	.04	.05	.08	.06	.10	.05	.08	.01	.01	25
26							.02	.04	.03	.04	.03	.04	.03	.04	.04	.05	.05	.08	.06	.10	.05	.08	.01	.01	26
27							.02	.02	.03	.04	.03	.04	.03	.04	.07	.12	.05	.08	.06	.10	.04	.05	.01	.01	27
28					.00	.00	.02	.02	.03	.04	.03	.04	.03	.04	.07	.12	.06	.10	.06	.10	.04	.05	.01	.01	28
29					.02	.02	.02	.02	.02	.02	.03	.04	.03	.04	.08	.15	.04	.05	.07	.12	.04	.05	.01	.01	29
30					.02	.02	.01	.01			.03	.02	.03	.04	.08	.15	.03	.04	.07	.12	.04	.05	.01	.01	30
31					.02	.02	.02	.02			.03	.02			.09	.18			.06	.10	.04	.05			31
TOTAL,						.06		.31		2.52		1.90		1.03		1.74		2.96		2.54		2.65		0.58	16.29
Mean Daily Discharge in Second-feet						.01		.01		.09		.06		.03		.06		.10		.09		.09		.02	
Second-feet per square mile																									
Run-off, depth in inches																									
Run-off in acre-feet						.12		.61		5.00		3.77		2.04		3.45		5.87		5.04		5.26		1.15	32.31
Maximum Mean Daily Discharge in Second-feet						.02		.04		.60		.18		.05		18		.18		.12		.10		.05	
Minimum Mean Daily Discharge in Second-feet						.00		.00		.02		.01		.02		.01		.04		.04		.05		.01	

Maximum stage .... feet at .... on .... Discharge .... second-feet.

Minimum stage .... feet at .... on .... Discharge .... second-feet.

PERIOD	First	Second	Third	Fourth	Quarter	First	Second	Third	Fourth	Quarter	First	Second	Third	Fourth
G. H. Copied	MAR	MAR	MAR	MAR	Disch. applied	MAR	MAR	MAR	MAR	Computed	MAR	MAR	MAR	MAR
G. H. checked	MAR	MAR	MAR	MAR	Disch. checked	MAR	MAR	MAR	MAR	Checked	MAR	MAR	MAR	MAR
Date					Date	Nov. 16, 1928.				Date				

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 40

Monthly discharge of PUDDINGSTONE ~~Dixon~~ **Creek**

at below Dam **near**

for the year ending Sept. 30, 1928.

(Drainage area 84.8 square miles)

MONTH	Mean Daily DISCHARGE IN SECOND-FEET			RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December	in part .02	.00	.01			.13	
January	.04	.00	.01			.61	
February	.60	.02	.09			5.00	
March	.18	.01	.06			3.77	
April	.05	.02	.03			2.04	
May	.18	.01	.06			3.45	
June	.18	.04	.10			5.87	
July	.12	.04	.09			5.04	
August	.10	.05	.09			5.28	
September	.05	.01	.03			1.15	
The ~~year~~ period						33.81	

NOTE:

Recorder was installed on Dec. 28, 1927.

Cippoletti Weir Table used for rating table.

No measurements made.

F 32-R

BALLONA CREEK - CENTINELA BLVD.
Near Culver City.

Location:
On highway bridge over Ballona Creek at Centinela Boulevard about 2½ miles southwest of Culver City, Los Angeles County, California.

Drainage Area:
111.97 sq. mi.

Installed By:
Los Angeles County Flood Control District, February 27, 1928.

Records Available:
Los Angeles County Flood Control District from Feb. 27, 1928 to Sept. 30, 1928.

Gage:
Au Continuous Water Stage Recorder set in wooden shelter house on corrugated pipe stilling well attached to downstream end of bridge pier near east bank of stream.

Discharge Measurements:
High water measurements from upstream side of bridge.
Low water measurements made by wading near gage.

Channel and Control:
Channel sand and clay loam, fair control.

Extremes of Discharge:

Maximum	1100 c.f.s.	May 8, 1928
	451 c.f.s.	Mar 3, "
	1013 c.f.s.	" 5, "
	544 c.f.s.	" 24, "
Minimum	Dry at various dates during summer months.	

Diversions:
Gravel plant above Dusquesue St., Culver City.

Regulation:
None

Accuracy:
Good

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperation with U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 - 500 - 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Discharge measurements of BALLONA Creek

at Centinela Blvd. Culver City, during the year ending September 30, 1928.

No.	Date 1928	Made by	Width Feet	Area of section Sq.-ft.	Mean velocity Ft. per sec.	Gage height Feet	Discharge Sec.-ft.	Rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
1	2-4	Rupert & Wood	54.0	209.8	2.67	None	561.1		.6		9	a.05	2/3	#6 271 655
2	2-22	" "	13.0	4.33	.93	5.78	4.0		.6		9	0	1/4	
3	3-3	Milan Rupert	22.5	13.63	1.37	5.98	-26.4		.6		12	-.02	1/3	"
4	3-5	Wood&Weinstock	55.0	155.6	2.66	8.07	414.5		.6		7	-.65	1/2	#4 271 636
5	5-8	Brewster&Crawford	55.0	232.0	4.56	9.67	1058		.6		8	a.65	1/4	
6	5-3	" "	42.0	120.3	1.77	7.90	212.5		.6		8	-.20	1/3	"
7	5-8	" "	50.0	185.7	2.71	3.90	504.1		.6		9	-.50	1/3	"
8	5-8	" "	52.0	226.4	4.00	9.77	905.7		.6		7	-.26	-	"
9	5-8	" "	37.0	125.2	3.34	8.58	418.5		.6		8	a.52	.9	"
10	6-14	R. P. Dalton	8.0	3.34	.89	5.63	3.0		.6		9	0	1/4	271 647
11	7-7	Milan Rupert	8.0	7.12	1.11	5.85	7.9		.6		7	0	1/4	262 556
12	8-18	" "	7.5	5.73	.96	6.05	5.5		.6		8	-.01	1/4	"
13	9-22	" "	21.0	15.96	.31	6.24	4.9		.6		12	0	1/4	"

F. C. Dist. Form 101—1M—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Daily ~~gage height, in feet, discharge, in second feet~~ of BALLONA CREEK

for the year ending Sept. 30, 1928.

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						5.79	5.98	5.61	5.62	5.50	5.62	5.67
2						5.82	5.95	5.59	5.63	5.51	5.59	5.71
3						H	H	5.59	5.66	5.79	5.61	5.60
4						6.06	6.06	5.51	5.66	5.69	5.66	5.54
5						H	6.02	5.58	5.65	5.59	5.65	5.61
6						6.31	5.92	5.57	5.72	5.61	5.59	5.62
7						6.15	5.83	5 57	5.64	5.65	5.61	5.71
8						6.11	5.72	H	5.62	5.70	5.51	5.71
9						6.05	5.67	5.64	5.61	5.59	5.50	5.75
10						6.06	5.69	5.54	5.61	5.58	5.54	5.65
11						6.01	5.64	5.49	5.62	5.53	5.65	5.69
12						5.99	5.64	5.54	5.69	5.52	5.57	5.69
13						5.96	5.64	5.58	5.66	5.54	5.59	5.60
14						5.95	5.66	5.58	5.63	5.61	5.55	5.59
15						5.94	5.69	5.61	5.66	5.55	5.57	2.64
16						5.92	5.61	5.59	5.75	5.56	5.56	5.57
17						5.91	5.55	5.56	5.66	5.60	5.61	5.37
18						5.92	5.53	5.61	5.70	5.61	5.65	5.52
19						5.90	5.56	5.64	5.71	5.60	5.64	5.53
20						5.85	5.59	5.64	5.69	5.59	5.63	5.61
21						5.86	5.62	5.50	5.68	5.67	5.66	5.62
22						5.83	5.70	5.53	5.64	5.67	5.57	5.66
23						5.87	5.65	5.53	5.60	5.71	5.53	5.65
24						H	5.64	5.61	5.68	5.67	5.36	5.63
25						6.13	5.58	5.56	5.70	5.65	5.71	5.70
26						6.00	5.53	5.62	5.71	5.65	5.69	5.65
27					5.72	H	5.56	5.58	5.68	5.66	5.44	5.65
28					5.74	5.99	5.55	5.55	5.66	5.66	5.66	5.60
29					5.76	5.94	5.54	5.65	5.45	5.63	5.78	5.65
30						5.95	5.53	5.63	5.46	5.62	5.67	5.67
31						5.96		5.68		5.65	5.67	

Sheet No. 1 of 2 Sheets.

L.C.D.C. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Rating table for BALLONA CREEK

Centinela Blvd. Culver City *from* Feb. 27 ,19 28 ,*to* Sept. 30 ,19 28.

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
5.50	0.00		5.90	16.5		6.30	43.5		6.80	90.0		7.20	139.0	
.52	.32		.92	17.7		.32	46.1		.88	92.3		.22	141.6	
.54	.64		.94	18.9		.34	46.7		.84	94.6		.24	144.2	
.56	.96		.96	20.1		.36	48.3		.86	96.9		.26	146.8	
.58	1.36		.98	21.3		.38	49.9		.88	99.2		.28	149.4	
.60	1.67		6.00	22.5		.40	51.5		.90	101.5		.30	152.0	
.62	2.54		.02	23.8		.42	53.2		.92	103.8		.32	154.9	
.64	3.40		.04	25.1		.44	54.9		.94	106.1		.34	157.8	
.66	4.27		.06	26.4		.46	56.6		.96	108.4		.36	160.7	
.68	5.13		.08	27.7		.48	58.3		.98	110.7		.38	163.6	
.70	6.00		.10	29.0		.50	60.0		7.00	113.0		.40	166.5	
.72	7.00		.12	30.4		.52	62.0		.02	115.6		.42	169.5	
.74	8.00		.14	31.8		.54	64.0		.04	118.2		.44	172.5	
.76	9.00		.16	33.2		.56	66.0		.06	120.8		.46	175.5	
.78	10.0		.18	34.6		.58	68.0		.08	123.4		.48	178.5	
.80	11.0		.20	36.0		.60	70.0		.10	126.0		.50	181.5	
.82	12.1		.22	37.5		.62	72.0		.12	128.6		.52	184.8	
.84	13.2		.24	39.0		.64	74.0		.14	131.2		.54	188.1	
.86	14.3		.26	40.5		.66	76.0		.16	133.8		.56	191.4	
.88	15.4		.28	42.0		.68	78.0		.18	136.4		.58	194.7	

The above table is not applicable for obstructed channel conditions. It is based on thirteen discharge measurements made during Feb. 4, 1928 to Sept. 30, 1928

and is well defined between second-feet and second-feet.

# 6.70	80.00
.72	82.00
.74	84.00
.76	86.00
.78	88.00

Used attached correction curves.

Computed by MAR
Checked by MAR
Date Oct. 20, 1928.

F. C. Dist.—Form 105 500 9-27

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of BALLONA ~~Creek~~ Creek

At ~~Centinela~~ Centinela Boulevard, Culver City **for the Year Ending September 30, 19** 28.

Drainage Area 115.5 **Square Miles.** [Au Continuous Water Stage Recorder. **Observer.**]

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Gage Read to Continuous **One Twice a Day.** **Used rating table dated** August 20, 1928.

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1											5.79	10.5	5.98	21.3	5.61	2.1	5.62	2.5	5.50	0	5.62	2.5	5.67	4.7	1
2											5.82	12.1	5.95	19.5	5.59	1.5	5.63	3.0	5.51	.2	5.59	1.5	5.71	6.5	2
3											Var.	106.6	Var.	99.8	5.59	1.5	5.66	4.3	5.79	10.5	5.61	2.1	5.60	1.7	3
4											6.06	26.4	6.06	26.4	5.51	.2	5.66	4.3	5.69	5.5	5.66	4.3	5.54	.6	4
5											Var.	195.9	6.02	23.8	5.58	1.3	5.65	3.8	5.59	1.5	5.65	3.8	5.61	2.1	5
6											6.31	44.3	5.92	17.7	5.57	1.1	5.72	7.0	5.61	2.1	5.59	1.5	5.62	2.5	6
7											6.15	32.5	5.83	13.6	5.57	1.1	5.64	3.4	5.65	3.8	5.61	3.1	5.71	6.5	7
8											6.11	29.7	5.72	7.0	Var.	85.4	5.62	2.5	5.70	6.0	5.51	.2	5.71	6.5	8
9											6.05	25.7	5.67	4.7	5.64	3.4	5.61	2.1	5.59	1.5	5.50	.0	5.75	8.5	9
10											6.06	26.4	5.69	5.6	5.54	.6	5.61	2.1	5.58	1.3	5.54	.6	5.65	3.8	10
11											6.01	23.1	5.64	3.4	5.49	.0	5.62	2.5	5.53	.5	5.65	3.8	5.69	5.5	11
12											5.99	21.9	5.64	3.4	5.54	.6	5.69	5.5	5.52	.3	5.57	1.1	5.69	5.5	12
13											5.96	20.1	5.64	3.4	5.58	1.3	5.66	4.3	5.54	.6	5.59	1.5	5.60	1.7	13
14											5.95	19.5	5.66	4.3	5.58	1.3	5.63	3.0	5.61	2.1	5.55	.8	5.59	1.5	14
15											5.94	18.9	5.69	5.6	5.61	2.1	5.66	4.3	5.55	.8	5.57	1.1	5.64	3.4	15
16											5.92	17.7	5.61	2.1	5.59	1.5	5.75	8.5	5.47	.0	5.56	1.0	5.57	1.1	16
17											5.91	17.1	5.55	.8	5.56	1.0	5.66	4.3	5.60	1.7	5.61	2.1	5.57	.0	17
18											5.92	17.7	5.53	.5	5.61	2.1	5.70	6.0	5.61	2.1	5.65	3.8	5.52	.3	18
19											5.90	16.5	5.56	1.0	5.64	3.4	5.71	6.5	5.60	1.7	5.64	3.4	5.53	.5	19
20											5.85	13.7	5.59	1.5	5.64	3.4	5.69	5.5	5.59	1.5	5.63	2.9	5.61	2.1	20
21											5.86	14.3	5.62	2.5	5.50	.0	5.68	5.1	5.67	4.7	5.66	4.3	5.62	2.5	21
22											5.83	12.6	5.70	6.0	5.53	.4	5.64	3.4	5.67	4.7	5.67	4.7	5.66	4.3	22
23											5.87	14.8	5.65	3.8	5.53	.5	5.60	1.7	5.71	6.5	5.53	.5	5.55	3.8	23
24											Var.	185.8	5.64	3.4	5.61	2.1	5.68	5.1	5.67	4.7	5.36	.0	5.63	2.9	24
25											6.13	31.1	5.58	1.3	5.56	1.0	5.70	6.0	5.65	3.8	5.71	6.5	5.70	6.0	25
26											6.00	22.5	5.53	.5	5.62	2.5	5.71	6.5	5.65	3.8	5.69	5.8	5.65	3.8	26
27									5.72	7.00	Var.	80.9	5.56	1.0	5.58	1.3	5.68	5.1	5.66	4.3	5.44	.0	5.65	3.8	27
28									5.74	8.00	5.99	21.9	5.55	.8	5.55	.8	5.66	4.3	5.66	4.3	5.66	4.3	5.60	1.7	28
29									5.76	9.00	5.94	18.9	5.54	.6	5.65	3.8	5.45	.0	5.63	3.0	5.78	10.0	5.65	3.8	29
30											5.95	19.5	5.53	.5	5.63	3.0	5.46	.0	5.62	2.5	5.67	4.7	5.57	4.7	30
31											5.96	20.1			5.68	5.1			5.65	3.8	5.67	4.7			31
TOTAL										24.00		1138.7		284.8		138.4		132.6		89.8		85.4		102.3	
Mean Daily Discharge in Second-feet										8.00		36.73		9.49		4.37		4.09		2.90		2.75		3.41	
Second-feet per square mile																									
Run-off, depth in inches																									
Run-off in acre-feet										47.60		2258.6		564.9		274.4		245.2		178.1		169.4		202.9	
Maximum Mean Daily Discharge in Second-feet										9.0		195.9		99.8		85.4		8.5		10.5		10.0		8.5	
Minimum Mean Daily Discharge in Second-feet										7.0		10.5		.5		0		0		0		0		0	

Maximum stage 10.0 feet at 1:05 P.M. on May 8, 1928 Discharge 1170 second-feet.
Minimum stage Dry feet at Various Dates Discharge second-feet.

PERIOD ~~YEAR~~

	First	Second	Third	Fourth
Quarter				
Computed	MAR	MAR	MAR	MAR
Checked	CEB	CEB	CEB	CEB
Date				

Disch. applied MAR MAR MAR MAR
Disch. checked CEB CEB CEB CEB
G. H. Copied MAR MAR MAR MAR
G. H. checked CEB CEB CEB CEB
Date

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Monthly discharge of BALLONA ~~River~~ Creek

at ~~near~~ Centinela Blvd., Culver City for the year ending Sept. 30, 1928

(Drainage area 115.5 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January							
February 27-29	9.0	7.0	8.0	3 days only		47.6	
March	195.9	10.5	36.73			2258.6	
April	99.8	.6	9.49			564.9	
May	85.4	.0	4.37			268.6	
June	8.5	0	4.09			243.2	
July	10.5	0	2.90			178.1	
August	10.0	0	2.75			169.4	
September	8.5	0	3.41			202.9	
The ~~year~~ period						3933.3	

NOTE:

Station installed February 27, 1928.

Used Correction Curve.

LOS ANGELES RIVER - STEWART & GREY ROAD

Location:
On highway bridge over Los Angeles River at Stewart and Grey road about 2 miles west of Downey, Los Angeles County, California, about ½ mile above junction with Rio Hondo.

Drainage Area:
564 sq. mi. (Approximate)

Installed By:
State Division of Water Rights of California, 1923.

Reestablished By:
Los Angeles County Flood Control District, March 1, 1928.

Records Available:
For previous records see Bulletin #5, California State Division of Water Rights, San Gabriel Investigation. March 1, 1928 to Sept. 30, 1928, Los Angeles County Flood Control District.

Gage:
Rational 7 day water stage recorder set on corrugated pipe stilling well attached to bridge pier. Staff gage on bridge pier.

Discharge Measurements:
High water measurements from bridge. Low water measurements made by wading near gage.

Channel and Control:
Channel sand and silt, no control.

Extremes of Discharge:
Maximum 1115 c.f.s. Feb. 4, 1928
560 c.f.s. March 5, 1928
310 c.f.s. April 3, 1928
Minimum Dry at various times during summer months.

Diversions:
None

Regulation:
None

Accuracy:
Fair

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperation with U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 - 500 - 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Discharge measurements of LOS ANGELES River ~~Creek~~

at ~~near~~ STUART & GRAY ROAD, during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271-
1	3-4	Rupert & Brennan	100.	207.0	5.35	3.78	1107.0		.6		19	-32	2.0	655
2	3-5	Rupert & Thatcher	72.	32.7	2.05	2.66	67.0		.6		12	-01	½	655
3	3-5	Thatcher&Chandler	88.	79.5	4.60	3.11	366.0		.6		18	.01	2/3	655
4	3-5	" "	88.	96.5	5.19	3.21	501.0		.6		16	-10	5/6	655
5	3-5	Rupert, Cornick & Thatcher	88.	100.0	5.61	3.32	561.0		Surface		4	-10	1/6	Log FC#17 271
6	5-12	Dalton	8.	1.7	.63	2.40	1.1		.6		8	0	1/6	647
7	6-16	"	5.	.64	.33	2.22	.21		.6		5	0	1/6	647
8	9-22	Rupert, Pursley	7.	1.02	.51	2.23	.52		.6		7	0	1/3	262- 556

F. C. Dist. Form 101—1M—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Daily gage height, in feet, ~~discharge, in second-feet~~ of LOS ANGELES RIVER AT THE STEWART AND GRAY ROAD

for the year ending Sept. 30, 19 28.

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						2.66	2.52	NF 1.84	2.25	2.24	2.11	2.26
2						2.52	2.53	NF 1.84	2.27	2.23	2.08	2.26
3						2.76	2.65	NF 1.84	2.26	2.22	2.08	2.26
4						2.77	2.63	NF 1.84	2.25	2.23	2.12	2.26
5						2.98	2.63	NF 1.84	2.25	2.22	2.01	2.26
6						2.58	2.63	NF 2.21	2.24	2.21	1.99	I 2.24
7						2.64	2.62	2.22	2.25	2.21	1.98	I 2.22
8						2.70	2.62	2.24	2.25	2.20	1.98	2.21
9						2.71	2.63	2.27	2.26	2.20	1.98	2.30
10						2.68	2.58	2.39	I 2.26	2.21	1.98	2.21
11						2.73	2.56	2.25	I 2.25	2.21	NF 1.98	2.21
12						2.77	2.56	2.27	I 2.25	2.21	NR 1.98	2.21
13						2.77	2.58	2.24	I 2.24	2.21	NF 1.98	2.21
14						2.67	2.59	2.25	I 2.23	2.20	NF 1.98	2.22
15						2.63	2.57	2.24	I 2.22	2.20	NF 1.98	2.22
16						2.48	2.57	2.24	I 2.22	2.20	NF 1.98	2.22
17						2.58	2.57	2.26	2.21	2.20	NF 1.98	2.22
18						I 2.57	NF 2.56	2.25	2.22	2.20	NF 1.98	2.22
19						I 2.54	NF 2.56	2.23	2.24	2.20	NF 1.98	2.26
20						I 2.51	NF 2.56	I 2.27	2.25	2.20	NF 1.98	2.22
21						2.48	NF 2.56	2.31	2.27	2.20	1.99	2.22
22						I 2.46	NF 2.56	2.28	2.29	2.20	2.06	2.22
23						2.43	NF 2.56	2.26	2.26	2.20	2.06	2.22
24						2.72	NF 2.56	2.26	2.24	2.20	2.11	2.22
25						2.64	NF 2.56	2.29	2.23	2.20	2.19	2.22
26						2.60	NF 2.56	2.28	2.22	2.20	2.24	2.22
27						2.70	NF 2.56	2.28	2.23	2.20	2.26	2.22
28						2.63	NF 2.56	2.27	2.24	2.23	2.27	2.22
29						2.54	NF 1.84	2.26	2.25	2.19	2.27	2.22
30						2.56	NF 1.84	2.27	2.27	2.03	2.26	2.22
31						2.53		2.26		1.99	2.26	

N.F. = No Flow past gage

I. = Interpolated

F. C. Dist. Form 103—300—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Rating table for LOS ANGELES RIVER, TWEEDY ROAD

at Stewart and Gray Road, *from* Oct. 1, 19 27, *to* Sept. 30, 19 28.

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
2.17	0.00		2.54	31.91		2.94	250.0		3.34	584.2		3.74	1044.4	
.18	0.01		.56	37.31		.96	264.0		.36	603.8		.76	1071.6	
.19	0.06		.58	42.71		.98	278.0		.38	623.4		.78	1098.8	
2.20	0.11		.60	48.11		3.00	292.0		.40	643.0		.80	1126.0	
2.22	0.21		.62	53.90		.02	307.6		.42	663.0		.82	1157.4	
.24	0.31		.64	59.69		.04	323.2		.44	683.0		.84	1188.8	
.26	0.41		.66	65.48		.06	338.8		.46	703.0		.86	1220.2	
.28	0.51		.68	76.60		.08	354.4		.48	723.0		.88	1251.6	
.30	0.61		.70	89.50		.10	370.0		.50	743.0		.90	1283.0	
.32	0.71		.72	102.4		.12	387.0		.52	766.8		.92	1318.0	
.34	0.81		.74	115.3		.14	404.0		.54	790.6		.94	1353.0	
.36	0.91		.76	128.2		.16	421.0		.56	814.4		.96	1388.0	
.38	1.01		.78	141.1		.18	438.0		.58	838.2		.98	1423.0	
.40	1.11		.80	154.0		.20	455.0		.60	862.0		4.00	1458.0	
.42	5.11		.82	167.6		.22	473.0		.62	887.6		.02	1496.4	
.44	9.11		.84	181.2		.24	491.0		.64	913.2		.04	1534.8	
.46	13.11		.86	194.8		.26	509.0		.66	938.8		.06	1573.2	
.48	17.11		.88	208.4		.28	527.0		.68	964.4		.08	1611.6	
.50	21.11		.90	222.0		.30	545.0		.70	990.0		.10	1650.0	
.52	26.51		.92	236.0		.32	564.6		.72	1017.2		.12	1691.6	

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by MAR

Checked by MAR

Date Oct. 12, 1928.

F. C. Dist. Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Rating table for LOS ANGELES RIVER, TWEEDY ROAD

at Stewart and Gray Road, *from* Oct. 1, *19* 27, *to* Sept. 30, *19* 28.

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
4.14	1733.2													
.16	1774.8													
.18	1816.4													
.20	1858.0													
.22	1905.33													
.24	1952.66													
.26	2000.0													

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by WR

Checked by WAR

Date Oct. 19, 1928.

F. C. Dist. Form 105 500 9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LOS ANGELES River XXX

At XXX Stewart & Gray Road, Tweedy Road for the Year Ending September 30, 1928.

Drainage Area 564 Square Miles. Observer Rational 7 day Recorder.

Gage Read to Continuous Gage Read Once a Day.

Used rating table dated Oct. 12, 1928.

Maximum stage ... feet at ... on ... Discharge ... second-feet.
Minimum stage ... feet at ... on ... Discharge ... second-feet.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
1											2.66	65.5	2.52	26.5	1.84	Dry	2.25	0.4	2.24	0.3	2.11	Dry	2.26	0.4	1
2											.62	30.5	2.38	29.2	1.84	"	2.27	0.4	2.23	0.2	2.08	"	2.26	0.4	2
3											.76	125.2	2.65	68.0	1.84	"	2.26	0.4	2.22	0.2	2.08	"	2.26	0.4	3
4											.77	134.6	2.63	56.8	1.84	"	2.25	0.4	2.25	0.3	2.12	"	2.26	0.4	4
5											.98	278.0	2.62	56.8	1.84	"	2.25	0.4	2.22	0.2	2.01	"	2.26	0.4	5
6											.58	42.7	2.63	56.8	2.21	0.2	2.24	0.3	2.21	0.1	1.99	"	2.24	0.3	6
7											.64	59.7	2.62	55.9	2.22	0.2	2.25	0.3	2.21	0.2	1.98	"	2.22	0.2	7
8											.70	89.6	2.62	55.9	2.24	0.3	2.25	0.4	2.20	0.1	1.98	"	2.21	0.1	8
9											.71	96.0	2.63	56.8	2.27	0.5	2.26	0.4	2.20	0.1	1.98	"	2.20	0.1	9
10											.68	76.6	2.58	42.7	2.29	0.6	2.26	0.4	2.21	0.1	1.98	"	2.21	0.2	10
11											.73	108.8	2.56	37.3	2.25	0.4	2.25	0.3	2.21	0.2	1.98	"	2.21	0.1	11
12											.77	134.6	2.56	37.3	2.27	0.5	2.25	0.4	2.21	0.1	1.98	"	2.21	0.2	12
13											.77	134.6	2.58	42.7	2.24	0.3	2.24	0.3	2.21	0.2	1.98	"	2.21	0.1	13
14											.67	71.0	2.59	45.4	2.25	0.4	2.23	0.2	2.20	0.1	1.98	"	2.22	0.2	14
15											.63	56.8	2.57	40.0	2.24	0.3	2.22	0.2	2.20	0.1	1.98	"	2.22	0.2	15
16											.48	17.1	2.57	40.0	2.24	0.3	2.22	0.2	2.20	0.1	1.98	"	2.22	0.2	16
17											.58	42.7	2.57	40.0	2.26	0.4	2.21	0.1	2.20	0.1	1.98	"	2.22	0.2	17
18											.57	40.0	2.56	37.3	2.25	0.4	2.22	0.2	2.20	0.1	1.98	"	2.22	0.2	18
19											.54	31.9	2.56	37.3	2.23	0.2	2.24	0.3	2.20	0.1	1.98	"	2.26	0.4	19
20											.51	23.8	2.56	37.3	2.27	0.5	2.25	0.4	2.20	0.1	1.98	"	2.22	0.2	20
21											.48	17.1	2.56	37.3	2.31	0.6	2.27	0.4	2.20	0.1	1.98	"	2.22	0.2	21
22											.46	13.1	2.56	37.3	2.28	0.5	2.29	0.6	2.20	0.1	2.06	"	2.22	0.2	22
23											.43	7.1	2.56	37.3	2.26	0.4	2.26	0.4	2.20	0.1	2.06	"	2.22	0.2	23
24											.72	102.4	2.56	37.3	2.26	0.4	2.24	0.3	2.20	0.1	2.11	"	2.22	0.2	24
25											.64	59.7	2.56	37.3	2.29	0.5	2.25	0.2	2.20	0.2	2.19	0.1	2.22	0.2	25
26											.60	48.1	2.56	37.3	2.28	0.5	2.22	0.3	2.20	0.1	2.24	0.3	2.22	0.2	26
27											.70	89.6	2.56	37.3	2.28	0.5	2.25	0.3	2.20	0.1	2.26	0.4	2.22	0.2	27
28											.63	56.8	2.56	37.3	2.27	0.5	2.24	0.3	2.23	0.2	2.27	0.5	2.22	0.2	28
29											.54	31.9	1.84	Dry	2.26	0.4	2.25	0.4	2.19	0.1	2.27	0.4	2.22	0.2	29
30											.56	37.3	1.84	"	2.27	0.5	2.27	0.5	2.03	Dry	2.26	0.4	2.22	0.2	30
31											.53	29.2			2.36	0.4			1.99	"	2.26	0.4			31
TOTAL,											2150.8		1139.0		10.7		9.9		4.1		2.5		6.9		3373.9
Mean Daily Discharge in Second-feet											69.4		38.6		0.34		0.33		0.14		0.08		0.23		
Second-feet per square mile																									
Run-off, depth in inches																									
Run-off in acre-feet											4266.1		2258.4		21.2		19.6		8.1		5.0		13.7		6692.1
Maximum Mean Daily Discharge in Second-feet											278.0		62.6		0.6		0.6		0.3		0.5		0.4		
Minimum Mean Daily Discharge in Second feet											7.1		Dry		Dry		0.1		Dry		Dry		0.1		

	First	Second	Third	Fourth
Quarter	First	Second	Third	Fourth
Computed	MAR	MAR	MAR	MAR
Checked	CEB	CEB	CEB	CEB
Date	Oct. 30, 1928.			
Disch. applied	MAR	MAR	MAR	MAR
Disch. checked	GP	GP	GP	GP
Date				
G. H. Copied	GP	GP	GP	GP
G. H. checked				
Date				

PERIOD XXX

F.C.Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Monthly discharge of LOS ANGELES **River** ~~Creek~~

at Stewart & Cray Road, Tweedy **for the year ending Sept. 30, 19**28.

(Drainage area 564 square miles)

MONTH	Mean Daily DISCHARGE IN SECOND-FEET			RUN-OFF			Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January							
February							
March	278.0	7.1	69.4			4266.1	
April	62.6	Dry	39.6			2358.4	
May	0.6	Dry	10.7			21.2	
June	0.6	0.1	0.33			19.6	
July	0.3	Dry	0.14			8.1	
August	0.5	Dry	0.08			5.0	
September	0.4	0.1	0.23			13.7	
The ~~year~~ period						6692.1	

NOTE:

Rational 7 day recorder was installed March 1, 1928.

RIO HONDO AT STEWART & GREY ROAD

Location:
On highway bridge over Rio Hondo at Stewart and Grey Road about 1½ miles west of Downey, Los Angeles County, California, and ½ mile above junction with Los Angeles River.

Drainage Area:
142 sq. mi. (Approximate)

Installed By:
State Division of Water Rights of California, 1923.

Reestablished By:
Los Angeles County Flood Control District, March 1, 1928.

Records Available:
Some previous records in Bulletin #5, California State Division of Water Rights, San Gabriel Investigation. Records from March 1, 1928 to Sept. 30, 1928 available at Los Angeles County Flood Control District.

Gage:
Rational 7 day water stage recorder set on corrugated pipe stilling well attached to bridge pier. Staff gage on bridge pier.

Discharge Measurements:
High water measurements made from cable car 200 ft. above bridge. Low water measurements by wading below gage.

Channel and Control:
Channel sandy, rock rip-rap banks, no control.

Extremes of Discharge:
4 c.f.s. March 6, 1928
Dry at various times during summer months.

Diversions:
Some diversion from stream in vicinity of Montebello.

Regulation:
None.

Accuracy:
Good for low flows.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control in cooperation with U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 - 500 - 9-25

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

Discharge measurements of RIO HONDO ~~CREEK~~ River

at ~~NEAR~~ Stewart & Gray Road, during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating per cent diff.	Method Coef.	Meas. secs. No.	Gage ht. chge. Total	Time Hours	Meter No.
			Feet	Sq.ft.	Ft. per sec.	Feet	Sec. ft.						
1	5-12	R. P. Dalton	7.0	1.82	0.82	5.03	1.49		.6	7	-.02	1/3	271 647
2	6-16	" " "	7.0	2.45	0.84	5.07	2.06		.6	7	0	1/6	"
3	9-22	M. Rupert	7.5	4.48	0.38	5.06	1.75		.6	10	0	1/4	262 566

F. C. Dist. Form 105 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of RIO HONDO River

At Stewart & Gray Road for the Year Ending September 30, 1928.

Drainage Area 142 Square Miles. [Rational Continuous Water Stage Recorder Observer.]

Gage Read to Continuous One/Twice a Day. Used rating table dated October 8, 1928.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1											4.82	0.41
2											4.86	.60
3											.90	.78
4											.96	1.08
5											.97	1.13
6											5.20	3.91
7											4.82	.41
8											.77	.23
9											.76	.20
10											.74	.13
11											.74	.13
12											.74	.13
13											.73	.10
14											.71	.03
15											.71	.03
16											.69	Dry
17											.71	.03
18											.70	Dry
19											.68	"
20											.79	.30
21											.76	.20
22											.73	.10
23											.77	.23
24											.94	.98
25											.82	.41
26											.75	.17
27											.77	.23
28											.78	.27
29											.70	Dry
30											.69	"
31											.69	"
TOTAL												12.22
Mean Daily Discharge in Second-feet												0.39
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet												24.24
Maximum Mean Daily Discharge in Second-feet												3.91
Minimum Mean Daily Discharge in Second-feet												Dry

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	Year
1	4.67	Dry	4.71	0.03	4.81	0.37	4.93	0.93	4.60	Dry	4.95	1.03	
2	.64	"	.66	Dry	.83	.46	.90	.73	.67	"	.92	.88	
3	.65	"	.80	0.33	.84	.51	.85	.56	.60	"	.82	.41	
4	.60	"	.70	Dry	.93	.93	.90	.78	.84	0.51	.60	Dry	
5	.73	0.10	.67	"	5.07	2.06	.93	.93	.85	.56		"	
6	.93	.93	.50	"	.17	3.49	4.97	1.13	.85	.56		"	
7	5.01	1.39	.40	"	.04	1.72	5.05	1.83	.83	.46		"	
8	4.90	.78	.78	0.27	4.97	1.13	4.86	.60	.80	.33		"	
9	.95	1.03	.78	.27	4.98	1.18	.80	.33	.78	.27		"	
10	.83	.46	.85	.56	5.02	1.50	.72	.07	.78	.27		"	
11	.80	.33	.90	.78	4.99	1.23	.80	.33	.78	.27	4.89	0.74	
12	.73	.10	5.01	1.39	.97	1.13	.92	.88	.60	Dry	.95	1.03	
13	.74	.13	4.80	.33	.96	1.08	5.00	1.28	.48	"	.93	.93	
14	.65	Dry	.84	.51	.87	.65	4.79	.30	.17	"	.90	.78	
15	.66	"	.95	1.03	.86	.60	.78	.27	.35	"	.96	1.08	
16	.63	"	5.01	1.39	.97	.13	.80	.33	.47	"	.95	1.03	
17	.55	"	4.96	1.08	.98	.18	.83	.46	.33	"	.94	.98	
18	.70	"	5.03	1.61	5.00	1.28	.82	.41	.57	"	5.05	1.83	
19	.75	.17	4.80	.33	4.93	.93	.78	.27	.58	"	4.95	1.03	
20	.72	.07	4.84	.51	.98	1.18	.78	.27	.39	"	5.06	1.94	
21	.88	.69	5.01	1.39	.93	.93	.65	Dry	.44	"	4.96	1.08	
22	.82	.41	4.87	.65	5.07	2.06	.68	"	.56	"	5.00	1.28	
23	.82	.41	4.88	.69	4.90	.78	.72	0.07	.48	"	5.07	2.06	
24	.82	.41	.82	.41	.92	.88	.80	.33	.62	"	4.93	.93	
25	.82	.41	5.09	2.35	.87	.65	.86	.60	.75	0.17	4.98	1.18	
26	.82	.41	4.97	1.13	.87	.65	.85	.56	.86	.60	.99	1.23	
27	.82	.41	.92	.88	.98	1.18	.88	.69	.87	.65	5.05	1.33	
28	.82	.41	5.05	1.83	5.06	1.94	.98	1.18	.91	.83	5.00	1.28	
29	.85	.56	.15	3.20	4.93	.93	4.93	.93	.93	1.18	5.02	1.50	
30	.77	.23	.08	2.20	.94	.98	.70	Dry	.93	.93	5.00	1.28	
31			4.82	.41			.60	"	5.01	1.39			
TOTAL		9.84		25.56		34.72		17.10		8.98		27.34	155.76
Mean Daily Discharge in Second-feet		0.33		0.82		1.16		0.55		0.19		0.91	
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		19.52		50.70		68.86		33.92		17.81		54.23	309.28
Maximum Mean Daily Discharge in Second-feet		1.39		3.20		3.49		1.83		1.39		2.06	
Minimum Mean Daily Discharge in Second-feet		Dry		Dry		Dry 0.37		Dry		Dry		Dry	

Maximum stage ... feet at ... on ... Discharge ... second-feet.
Minimum stage ... feet at ... on ... Discharge ... second-feet.

G. H. Copied / G. H. Checked / Date — Quarter: First, Second, Third, Fourth — Computed HAR / Checked HAR — Disch. applied HDH / Disch. checked HAR — Date Oct. 8, 1928 — Period Year

P. C. 1914 Form 105 500 9-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of COMPTON ~~Creek~~

At ~~Creek~~ Rosecrans Road, Compton For the Year Ending September 30, 19 28.

Drainage Area. 22.12 **Square Miles.** [Au Continuous Water Stage Recorder **Observer.**]

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge
1									0.80	3.59	0.78	4.77
2									1.21	24.13	H	8.35
3									1.62	47.32	H	34.63
4									2.02	72.68	.77	4.37
5									.62	.59	H	49.49
6									.64	.63	.88	8.88
7									.73	2.73	.80	5.39
8									.70	1.51	.78	4.77
9									.78	3.03	.77	4.37
10									.77	4.37	.77	4.37
11									.77	4.37	.70	1.51
12									.71	1.92	.66	.66
13									.67	.68	.74	3.14
14									.75	3.55	.75	3.55
15									.77	4.37	.75	3.55
16									.76	3.96	.75	3.55
17									.76	3.96	.75	3.55
18									.76	3.96	.69	1.10
19									.68	.69	.65	.61
20									.68	.69	.75	3.55
21									.75	3.55	.74	3.14
22							0.70	1.51	.75	3.55	.74	3.14
23							.72	2.32	.75	3.55	.75	3.55
24							.72	2.32	.73	2.73	H	38.5
25							.72	2.32	.73	2.73	.75	2.73
26							.72	2.32	.69	1.10	.67	.67
27							.72	2.32	.70	1.51	H	12.13
28							.53	.45	.75	3.55	.74	3.14
29							.52	.43	.77	4.37	.74	3.14
30							.66	.66			.74	3.14
31							.70	1.51			.72	2.32
TOTAL.								16.16		316.66		218.43
Mean Daily Discharge in Second-feet								1.62		7.47		6.95
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet								32.05		439.75		432.51
Maximum Mean Daily Discharge in Second-feet								2.32		72.68		49.49
Minimum Mean Daily								.43		.59		.61

Discharge in second-feet. Discharge in second-feet. Maximum stage for the month. Minimum stage for the month.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 87

Gage Read to Continuous One/Twice a Day. Used rating table dated Sept. 28, 1926.

APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
.65	0.65	0.67	0.68	0.66	0.66	0.52	0.43	0.72	2.32	0.68	0.69	1
.67	.68	.67	.68	.66	.66	.50	.40	.70	1.51	.54	.47	2
H	12.33	.65	.64	.59	.54	.64	.63	.71	1.93	.35	.16	3
.72	2.42	.63	.61	.58	.53	.60	.56	.70	1.51	.49	.38	4
.69	1.10	.80	5.59	.69	1.10	.56	.50	.56	.50	.66	.66	5
.69	1.10	.63	.61	.69	1.10	.63	.61	.55	.48	.66	.66	6
.70	1.51	.61	.57	.69	1.10	.60	.56	.66	.66	.68	.69	7
.63	.61	H	16.44	.68	.69	.61	.57	.66	.66	.66	.66	8
.58	.53	.67	.67	.71	1.92	.58	.55	.67	.67	.54	.47	9
.67	.68	.70	1.51	.60	.56	.65	.64	.67	.68	.56	.50	10
.68	.69	.68	.69	.57	.51	.67	.68	.66	.66	.66	.66	11
.67	.67	.74	2.14	.68	.69	.67	.68	.52	.43	.66	.66	12
.67	.68	.62	.59	.68	.69	.68	.69	.57	.51	.67	.67	13
.66	.66	.61	.57	.65	.65	.67	.67	.64	.63	.67	.68	14
.62	.59	.67	.68	.65	.65	.61	.57	.63	.61	.67	.67	15
.53	.53	.66	.66	.66	.66	.58	.53	.61	.57	.54	.47	16
.67	.67	.68	.69	.61	.57	.66	.66	.65	.64	.59	.54	17
.63	.69	.65	.64	.58	.53	.68	.69	.67	.67	.65	.64	18
.63	.69	.65	.64	.66	.66	.66	.66	.56	.50	.64	.63	19
.67	.67	.58	.53	.63	.61	.67	.67	.55	.48	.63	.61	20
.66	.66	.58	.53	.64	.63	.68	.69	.63	.61	.63	.61	21
.63	.61	.63	.61	.65	.65	.74	3.14	.62	.59	.62	.59	22
.60	.56	.63	.61	.69	1.10	.77	4.37	.62	.59	.51	.42	23
.66	.66	.64	.63	.60	.56	.75	2.73	.62	.59	.58	.53	24
.64	.63	.65	.64	.50	.40	.74	3.14	.63	.61	.68	.69	25
.58	.53	.67	.67	.65	.65	.62	.59	.58	.53	.64	.63	26
.59	.55	.59	.55	.65	.65	.66	.66	.55	.48	.63	.61	27
.69	1.10	.56	.50	.65	.65	.63	.61	.63	.61	.62	.59	28
.59	.55	.68	.69	.65	.65	.63	.61	.66	.66	.55	.48	29
.70	1.51	.62	.59	.63	.61	.63	.61	.70	1.51	.38	.21	30
		.56	.50			.68	.69	.66	.69			31
	35.41		41.35		21.63		29.77		24.08		16.93	PERIOD 619.42
	1.18		1.40		.72		.96		.78		.56	
	70.24		85.28		62.90		59.05		47.76		38.53	1096.62
	10.32		1.64		[illegible]		[illegible]		2.22		.69	
	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	

First Second Third Fourth Quarter — Computed MAR MAR MAR MAR — Checked MAR MAR MAR MAR — Date
First Second Third Fourth Quarter — Disch. computed MAR MAR MAR MAR — Disch. checked CBB CBB CBB CBB — Date

F.C.Dist Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 37

Monthly discharge of Compton Creek ~~Creek~~ Creek

at Rosecrans Road, Compton ~~Creek~~ **for the year ending Sept. 30, 19** 28.

(Drainage area 22.12 square miles)

MONTH	Mean daily DISCHARGE IN SECOND-FEET			RUN-OFF			Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January	2.32	0.43	1.62	(22nd to 31st)		32.05	
February	72.68	.59	7.47			429.75	
March	49.49	.61	6.95			427.31	
April	12.33	.53	1.18			70.24	
May	16.44	.50	1.40			85.98	
June	1.92	.40	.72			42.90	
July	4.37	.40	.96			59.05	
August	2.32	.43	.78			47.76	
September	.69	.21	.56			33.58	
The year period						1228.62	

NOTE:

Recorder installed Jan. 22, 1928.

EAST SAN GABRIEL RIVER - SPRING STREET
LONG BEACH

Location:
On Spring Street bridge crossing the East San Gabriel River about 4 miles east of Signal Hill, Long Beach.

Drainage Area:
439 sq.mi. (Approximate)

Installed By:
Los Angeles County Flood Control District, Hydrographic Department on Feb. 6, 1928.

Records Available:
Feb. 6, 1928 to Sept. 30, 1928. No runoff 1927-1928. #10-W. State Division of Water Rights formerly operated a station at this location.

Gage:
Rational 7 day stage recorder located in wooden shelter house on downstream side of bridge. House set on corrugated iron stilling well attached to bridge pier. Staff gage fastened to pier beside the stilling well.

Discharge Measurements:
No water flowing 1927-1928. Wading measurements will be made below bridge. Measurements of high flow will be made from upstream side of bridge.

Channel and Control:
Channel of sand and silt. No control.

Extremes of Discharge:
No flow 1927-1928.

Diversions:
No diversions near this station.

Regulation:
No regulation.

Accuracy:

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District, in cooperation with U.S.G.S. Water Resources Branch.

F. C. Dist.—Form 105 500 9-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of EAST SAN GABRIEL River

At SPRING STREET, LONG BEACH **for the Year Ending September 30, 19** 28.

Drainage Area 439 **Square Miles.** [National Recorder (7 day) **Observer.]**

Gage Read to One / Twice a Day. **Used rating table dated**

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8									NO RUNOFF				8
9													9
10													10
11													11
12									1927-28				12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL,													

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8			NO RUNOFF										8
9													9
10													10
11													11
12			1927-28										12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

Discharge ..... second-feet.
Discharge ..... second-feet.
Maximum stage ..... feet at ..... on .....
Minimum stage ..... feet at ..... on .....

Mean Daily Discharge in Second-feet
Second-feet per square mile
Run-off, depth in inches
Run-off in acre-feet
Maximum Mean Daily Discharge in Second-feet
Minimum Mean Daily Discharge in Second-feet

Second | Third | Fourth | Quarter
First | Second | Third | Fourth | Year

Checked
Date

Computed
Checked
Date

Disch. applied
Disch. checked
Date

G. H. Curve
G. H. checked
Date

PERIOD
YEAR

SYCAMORE STORM DRAIN - UPPER STATION

Location:
Concrete stilling well and shelter house located on West side of Sycamore Storm Drain one block east of Chevy Chase Drive near mouth of Sycamore Canyon, Glendale, California.

Drainage Area:
2.67 sq. mi.

Installed By:
Los Angeles County Flood Control District, Hydrographic Department on Jan. 30, 1928.

Records Available:
Jan. 30, 1928 - Sept. 30, 1928.

Gage:
Au continuous water stage recorder located in concrete shelter, adjoining west wall of concrete drain. One staff gage installed in stilling well.
Another installed on west wall of drain near inlets to stilling well.

Discharge Measurements:
Made by wading at gage above weir - notch in low flows.
Measurements made below weir - notch in higher flows.

Channel and Control:
Concrete flood control channel. Small notch serving as weir, control in the low flows and as a sand trap in high flows.

Extremes of Discharge:

Maximum	25 c.f.s.	Feb. 3, 1928
	14.2 c.f.s.	March 3, "
	25.0 c.f.s.	May 8, "
Minimum	Dry at various times during summer months.	

Diversions:
None above gage.

Regulation:
No regulation

Accuracy:
Good

Cooperation:
Located and operated by Los Angeles County Flood Control District in cooperation with the U.S.G.S. Water Resources Branch.

F. C. Dist.-- Form 104--500--9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 43

Discharge measurements of UPPER SYCAMORE DRAIN River Creek

at Upper Chevy Chase, Glendale
near , during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	*Sq.-ft.*	*Ft. per sec.*	*Feet*	*Sec.-ft.*	*Per cent diff.*			*No.*	*Total*	*Hours*	
1	5-8-28	M. Rupert	8.0	3.69	3.88	0.44	10.8		.6		6	-.02	1/4	4
2	5-8-28	" "	8.0	2.26	4.55	0.39	7.46		.6		5	-.02	1/6	4

F. C. Dist. Form 101—1M—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 43

Daily gage height, in feet, ~~discharge in second-feet~~ of UPPER SYCAMORE DRAIN

for the year ending Sept. 30, 1928.

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1					0.06	0.08	0.18	0.13	0.22	0.22	0.28	.06
2					.08	.07	H	.12	.23	.22	0.25	.06
3					H	H	H	.12	.23	.22	0.24	.06
4					H	0.13	0.11	0.08	0.23	0.20	0.25	.07
5					.15	H	.11	.08	.22	.19	.27	.07
6					.18	.13	.12	.10	.22	.20	.25	.08
7					.17	.11	.11	.11	.23	.20	.23	.08
8					.21	.10	.10	H	.23	.21	.19	.08
9					.21	.10	.10	.23	.23	.21	.17	.08
10					.28	.11	.10	.22	.22	.22	.18	.09
11					.32	.12	.10	.21	.22	.22	.15	.10
12					.15	.12	.10	.21	.21	.21	.12	.10
13					.21	.11	.10	.21	.21	.20	.13	.10
14					.12	.12	.10	.22	.21	.22	.14	.10
15					.12	.13	.10	.22	.21	.20	.15	.10
16					.11	.13	.10	.22	.22	.18	.16	.10
17					.10	.13	.10	.23	.22	.17	.18	.10
18					.10	.13	.10	.23	.22	.17	.20	
19					.10	.12	.10	.23	.23	.16	.20	
20					.10	.12	.10	.23	.22	.16	.20	
21					.10	.12	.10	.23	.23	.15	.20	
22					.11	.12	.10	.22	.23	.15	.20	
23					.11	.12	.10	.22	.22	.15	.20	
24					.10	.29	.10	.21	.21	.15	.20	
25					.11	.27	.11	.21	.22	.15	.20	
26					.09	.22	.12	.21	.20	.17	.09	
27					.08	.17	.13	.21	.20	.18	.08	
28					.08	.16	.14	.21	.21	.22	.07	
29					.08	.16	.12	.21	.21	.23	.07	
30				0.08		.17	.12	.21	.22	.28	.07	
31				.08		.16	.	.21		.30	.06	

Clock working irregular from August 18th, 1928 to September 18th, 1928.
Recorder installed at Pomona Fair September 19th, 1928.

I = Interpolated
NF = No Flow D = Doubtful time off

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 43

Rating table for UPPER SYCAMORE DRAIN

Upper Chevy Chase, Glendale, *from* Jan. 30, 19 28, *to* Sept. 20, 19 28.

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
0.05	.00		0.25	.30		0.45	11.55							
.06	.00		.26	.40		.46	12.22							
.07	.01		.27	.50		.47	12.90							
.08	.01		.28	.62		.48	13.57							
.09	.02		.29	.78		.49	14.24							
.10	.02		.30	1.45		.50	14.91							
.11	.03		.31	2.12		.51	15.58							
.12	.04		.32	2.80		.52	16.25							
.13	.04		.33	3.47		.53	16.92							
.14	.05		.34	4.14		.54	17.60							
.15	.05		.35	4.82		.55	18.27							
.16	.06		.36	5.49		.56	18.94							
.17	.07		.37	6.16		.57	19.61							
.18	.08		.38	6.84		.58	20.28							
.19	.09		.39	7.51		.59	20.95							
.20	.10		.40	8.18		.60	21.62							
.21	.12		.41	8.86		.61	22.30							
.22	.15		.42	9.53		.62	22.97							
.23	.20		.43	10.20		.63	23.65							
.24	.25		.44	10.88		.64	24.32							
						.65	25.00							

The above table is not applicable for obstructed channel conditions. It is based on two discharge measurements made during May 1928

and is fairly well defined between 7.5 second-feet and 11.0 second-feet.

Computed by M.A.R.

Checked by M.A.R.

Date Oct. 16, 1928.

F. C. Dist.—Form 105—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 43

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of UPPER SYCAMORE DRAIN

At Chevy Chase Drive, Glendale for the Year Ending September 30, 1928.

Drainage Area 2.67 Square Miles. [Au Continuous Water Stage Recorder. Observer.] Gage Read to Continuous Times a Day. Used rating table dated Oct. 16, 1928.

DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	DAY
1									0.08	0.01	0.08	.01	0.18	0.08	0.13	0.04	0.22	0.15	0.22	0.15	0.28	0.62	0.06	0.0	1
2									.08	.01	.07	.01	H	.11	.12	.04	.23	.20	.22	.15	.25	.30	.06	.0	2
3									H	.52	H	1.26	H	.38	.12	.04	.23	.20	.22	.15	.24	.25	.06	.0	3
4									H	2.23	.12	.04	.11	.03	.08	.01	.23	.20	.20	.10	.25	.30	.07	.01	4
5									.15	.05	H	.79	.11	.03	.08	.01	.23	.20	.19	.09	.27	.50	.07	.01	5
6									.18	.08	.13	.04	.12	.04	.10	.02	.22	.15	.20	.10	.25	.30	.08	.01	6
7									.17	.07	.11	.03	.11	.03	.11	.03	.23	.20	.20	.10	.23	.20	.08	.01	7
8									.21	.12	.10	.02	.10	.03	H	1.09	.23	.20	.20	.10	.19	.09	.08	.01	8
9									.21	.12	.10	.02	.10	.02	.23	.20	.23	.20	.21	.12	.17	.07	.08	.01	9
10									.28	.62	.11	.03	.10	.02	.22	.15	.22	.15	.22	.15	.18	.08	.09	.02	10
11									.32	2.80	.12	.04	.10	.02	.21	.12	.22	.15	.22	.15	.15	.05	.10	.02	11
12									.15	.05	.12	.04	.10	.02	.21	.12	.21	.12	.21	.12	.12	.04	.10	.02	12
13									.21	.12	.11	.03	.10	.02	.21	.12	.21	.12	.20	.10	.13	.04	.10	.02	13
14									.12	.04	.12	.04	.10	.02	.22	.15	.21	.12	.22	.15	.14	.05	.10	.02	14
15									.12	.04	.13	.04	.10	.02	.22	.15	.21	.12	.20	.10	.15	.05	.10	.02	15
16									.11	.03	.13	.04	.10	.02	.22	.15	.22	.15	.18	.08	.16	.06	.10	.02	16
17									.10	.02	.13	.04	.10	.02	.23	.20	.22	.15	.17	.07	.18	.08	.10	.02	17
18									.10	.02	.13	.04	.10	.02	.23	.20	.22	.15	.17	.07	.20	.10	Ext.	.02	18
19									.10	.02	.12	.04	.10	.02	.23	.20	.23	.20	.16	.06	.20	.10	"	.02	19
20									.10	.02	.12	.04	.10	.02	.23	.20	.22	.15	.16	.06	.20	.10	"	.02	20
21									.10	.02	.12	.04	.10	.02	.23	.20	.23	.20	.15	.05	.20	.10	"	.02	21
22									.11	.03	.12	.04	.10	.02	.22	.15	.23	.20	.15	.05	.20	.10	"	.02	22
23									.11	.03	.12	.04	.10	.02	.22	.15	.22	.15	.15	.05	.20	.10	"	.02	23
24									.10	.02	.29	.78	.10	.02	.21	.12	.21	.13	.15	.05	.20	.10	"	.02	24
25									.11	.03	.27	.50	.11	.03	.21	.12	.22	.15	.15	.05	.20	.10	"	.02	25
26									.09	.02	.22	.15	.12	.04	.21	.12	.20	.10	.17	.07	.09	.02	"	.02	26
27									.08	.01	.17	.07	.13	.04	.21	.12	.20	.10	.18	.08	.08	.01	"	.02	27
28									.08	.01	.16	.06	.14	.05	.21	.12	.21	.12	.22	.15	.07	.01	"	.02	28
29									.08	.01	.16	.06	.12	.04	.21	.12	.21	.12	.23	.20	.07	.01	"	.02	29
30							0.08	0.01			.17	.07	.12	.04	.21	.12	.22	.15	.28	.62	.07	.01	"	.02	30
31							.08	.01			.16	.06			.21	.12			.30	1.45	.06	.01			31

	October	November	December	January	February	March	April	May	June	July	August	September	Period
TOTAL				.02	7.19	4.51	1.28	4.70	4.69	4.99	3.95	0.48	31.81
Mean Daily Discharge in Second-feet				.01	.25	.15	.04	.15	.16	.16	.13	.02	
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet				.04	14.26	8.95	2.54	9.32	9.30	9.90	7.83	0.95	63.10
Maximum Mean Daily Discharge in Second-feet				.01	2.80	1.26	.38	1.09	.20	1.45	.62	.02	
Minimum Mean Daily Discharge in Second-feet				.01	.01	.01	.02	.01	.10	.05	.01	0	

L.C.Dist.Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 43

Monthly discharge of UPPER SYCAMORE DRAIN ~~River~~ Creek

at ~~River~~ Upper Sycamore, Chevy Chase Drive **for the year ending Sept. 30, 19** 28.

(Drainage area 2.67 square miles)

MONTH	Mean Daily DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January	0.01	0.01	2 days, only			0.04	
February	2.80	.01				14.26	
March	1.36	.01				8.95	
April	.38	.02				2.54	
May	1.09	.01				9.32	
June	.20	.10				9.30	
July	1.45	.05				9.90	
August	.62	.01				7.85	
September	.02	.00				.95	
The ~~year~~ period						63.10	

NOTE: The recorder was removed on Sept. 18, 1928 to the Pomona County Fair. It was kept on exhibition there the balance of the year. The discharges during this period were extended.

SYCAMORE STORM DRAIN - LOWER STATION

Location:
Concrete stilling well and shelter house located on east side of Sycamore Storm Drain at Adam's Square, Lower Chevy Chase Drive in Glendale, California.

Drainage Area:
6.19 sq.mi.

Installed By:
Los Angeles County Flood Control District, Hydrographic Department on December 15, 1927.

Records Available:
Dec. 15, 1927 to Sept. 30, 1928.

Gage:
Au continuous water stage recorder located in concrete shelter adjoining east wall of concrete drain.
One Staff Gage installed in stilling well. Another installed on east wall of drain near inlets to stilling well.

Discharge Measurements:
Made by wading at gage above weir notch in low flows.
Measurements made below weir notch in the higher flows.

Channel and Control:
Concrete flood control channel.
Small notch serving as weir-control in the low flows and as a sand trap in high flows.

Extremes of Discharge:

Maximum	34.0 c.f.s.	on Feb. 3, 1928
	2722 c.f.s.	" Dec.21, 1927
	30.6 c.f.s.	" Mar. 3, 1928
	18.5 c.f.s.	" " 5, 1928
Minimum	Dry at various times during summer months.	

Diversions:
No diversions above gage.

Regulation:
No regulation.

Accuracy:
Good

Cooperation:
Located and operated by Los Angeles County Flood Control District in co-operation with U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Discharge measurements of LOWER SYCAMORE DRAIN River Creek

near CHEVY CHASE DRIVE, GLENDALE, during the year ending September 30, 1928.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1.	3-5	T. E. Moon	9.0	3.06	5.35	0.77	16.4		.6		7	-.02	1/3	F.3 Hoff
2.	3-5	" " "	9.0	7.58	2.16	0.80	16.4		.6		5	0	1/3	"
3.	3-24	" " "	9.0	4.58	1.07	0.45	4.88		.6		8	0	1/4	"

F. C. Dist. Form 101—1M—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Daily gage height, in feet, ~~discharge in second feet~~ of LOWER SYCAMORE DRAIN

for the year ending Sept. 30, 1928.

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				Dry	I .03	0.08	0.13	Dry	0.-	Dry		
2				"	Dry	.08	.17	"		"		
3				0.10	H	H	H	"		0.06		
4				0.02	H	0.14	I Dry	0.01		0.08		
5				Dry	0.12	H	"	.02		0.05		
6				.03	0.01	0.21	"	.03	0.-	Dry		
7				Dry	.20	0.16	"	I 0.22		Dry		
8				"	0.21	.07	"	.41		"		
9				.03	.18	.04	"	.18		"		
10				.01	.14	.02	"	I .16		"		
11				H	.23	.06	"	I .14	-0.30	"		
12				H	.11	.06	"	I .12	-0.28	"	NO FLOW	NO FLOW
13				.03	.18	.06	"	I .10	-0.26	"		
14				.12	.15	.02	"	I .08	-0.24	"		
15			0.03	.04	.13	.07	"	I .06	-0.22	"		
16			.02	.03	.11	.01	"	I .04	-0.20	"		
17			.02	.03	.11	.07	"	I .02	-0.18	"		
18			H	.04	.01	.12	"	I .00	-0.16	"		
19			H	I .03	.03	.16	"	I -.02	-0.14	"		
20			H	I .03	.02	.08	"	I -.04	-0.12	"		
21			H	I .03	.03	.03	"	I -.06	-0.10	"		
22			Dry	I .03	.04	.06	"	I -.08	-0.08	"		
23			"	I .03	.01	.05	"	I -.10	-0.06	"		
24			"	I .03	.07	H	"	-0.12	-0.04	"		
25			H	.03	.09	0.10	"	Dry	0.02	"		
26			H	I .03	.04	.01	"	"	0.00	"		
27			Dry	I .03	.01	H	"	"	Dry	"		
28			"	.03	Dry	0.18	"	"	"	"		
29			"	.02	.03	.23	"	"	"	"		
30			"	.07		.14	"	"	"	"		
31			"	.06		.18		"	"	"		

H = Varying Gage Height

I = Interpolated Gage Height

Clock Irregular During June.

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Rating table for LOWER SYCAMORE DRAIN

Chevy Chase Drive, Glendale *from* Dec. 15, 19 27, *to* Sept. 30, 1928.

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
.01	.002		0.32	1.88		0.72	14.15		1.12	27.89		1.52	41.63	
.02	.004		.34	2.30		.74	14.84		.14	28.58		.54	42.32	
.03	.006		.36	2.72		.76	15.53		.16	29.27		.56	43.01	
.04	.008		.38	3.14		.78	16.22		.18	29.96		.58	43.70	
.05	.01		.40	3.56		.80	16.90		120	30.64		.60	44.38	
.06	.012		.42	4.08		.82	17.59		.22	31.33				
.07	.014		.44	4.61		.84	18.28		.24	32.02				
.08	.016		.46	5.22		.86	18.96		.26	32.70				
.09	.018		.48	5.91		.88	19.65		.28	33.39				
.10	.02		.50	6.60		.90	20.34		.30	34.08				
.12	.024		.52	7.28		.92	21.02		.32	34.76				
.14	.028		.54	7.97		.94	21.71		.34	35.45				
.16	.032		.56	8.66		.96	22.40		.36	36.14				
.18	.146		.58	9.35		.98	23.09		.38	36.83				
.20	.26		.60	10.03		1.00	23.77		.40	37.51				
.22	.50		.62	10.72		.02	24.46		.42	38.20				
.24	.74		.64	11.41		.04	25.15		.44	38.89				
.26	.98		.66	12.09		.06	25.83		.46	39.57				
.28	1.22		.68	12.78		.08	26.52		.48	40.26				
.30	1.46		.70	13.47		.10	27.21		.50	40.95				

The above table is not applicable for obstructed channel conditions. It is based on three discharge measurements made during March 1928,

and is not well defined between second-feet and second-feet.

Computed by M.A.R.

Checked by M.A.R.

Date Oct. 16, 1928.

F. C. Dist.—Form 105 500 2-23

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LOWER SYCAMORE DRAIN River / Creek

At / Near Chevy Chase Drive, Glendale for the Year Ending September 30, 1928

Drainage Area 6.19 Square Miles. Au Continuous Water Stage Recorder. Observer.] Gage Read to Continuous One / Twice a Day. Used rating table dated Oct. 15, 1928.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
1							0.03	0.01	0.03	0.01	0.08	0.02	1	0.13	0.03	0.00	0.00			0.00	Dry					1
2							.00	.00	0.0	Dry	.08	.02	2	.17	.09	.00	.00			.00	"					2
3							.10	.02	Var.	4.35	Var.	3.39	3	Var.	1.15	.00	.00			.06	.01					3
4							.02	.00	"	7.01	.14	.03	4	.00	Dry	.01	.00			.00	Dry					4
5							Dry	Dry	.12	.02	Var.	3.71	5	.00	"	.02	.00				"					5
6							.03	.01	.01	.00	.21	.38	6	.00	"	.03	.01				"					6
7							Dry	Dry	.20	.26	.16	.02	7	.00	"	.22	.50				"					7
8							"	"	.21	.38	.07	.01	8	.00	"	.41	3.82				"					8
9							.03	.01	.18	.15	.04	.01	9	.00	"	.18	.15				"					9
10							.01	.00	.14	.03	.02	.02	10	.00	"	.16	.03				"					10
11							Var.	.10	.23	.62	.06	.01	11	.00	"	.14	.03				"					11
12							"	.14	.11	.02	.06	.01	12	.00	"	.12	.02				"					12
13							.03	.01	.18	.15	.06	.01	13	.00	"	.10	.02				"					13
14							.12	.02	.15	.03	.02	.00	14	.00	"	.08	.02				"					14
15					0.03	.01	.04	.01	.13	.03	.07	.01	15	.00	"	.06	.01	No Flow			"	No Flow		No Flow		15
16					.02	.00	.03	.01	.11	.02	.01	.00	16	.00	"	.04	.01	in			"	in		in		16
17					.02	.01	.03	.01	.11	.02	.07	.01	17	.00	"	.02	.00	June			"	August		September		17
18					Var.	.20	.04	.01	.01	.00	.12	.02	18	.00	"	.00	Dry				"					18
19					Var.	1.03	.03	.00	.03	.01	.16	.03	19	.00	"	.00	"				"					19
20					Var.	4.69	.03	.01	.02	.00	.08	.02	20	.00	"	-.00	"				"					20
21					Var	5.91	.03	.01	.03	.01	.03	.01	21	.00	"	-.00	"				"					21
22					Dry	Dry	.03	.00	.04	.01	.06	.01	22	.00	"	-.00	"				"					22
23					"	"	.03	.01	.01	.00	.05	.01	23	.00	"	-.00	"				"					23
24					"	"	.03	.01	.07	.01	Var.	1.94	24	.00	"	-.00	"				"					24
25					Var.	5.66	.03	.00	.09	.02	.10	.02	25	.00	"	.00	"				"					25
26					Var	5.07	.03	.01	.04	.01	.01	.00	26	.00	"	.00	"				"					26
27					Dry	Dry	.03	.01	.01	.00	Var.	1.03	27	.00	"	.00	"				"					27
28					"	"	.03	.00	.00	Dry	.18	.15	28	.00	"	.00	"				"					28
29					"	"	.03	.01	.03	.01	.23	.62	29	.00	"	.00	"				"					29
30					"	"	.07	.01			.14	.02	30	.00	"	.00	"				"					30
31					"	"	.06	.01			.18	.15	31													31
TOTAL,						20.63		0.45		13.18		11.69			1.27		4.62	No Flow			.01	No Flow		No Flow		51.85
Mean Daily Discharge in Second-feet						1.29		0.14		0.45		.38			.04		.15									
Second-feet per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet						40.92		0.89		26.14		23.19			2.52		9.16	No Flow			.02	No Flow		No Flow		102.84
Maximum Mean Daily Discharge in Second-feet						5.66		.14		7.01		3.71			1.15		3.82	No Flow			.01	No Flow		No Flow		
Minimum Mean Daily Discharge in Second-feet						Dry		Dry		Dry		Dry			Dry		Dry	Dry			Dry	Dry		Dry		

Discharge .... second-feet. on .... feet at .... Maximum stage
Discharge .... second-feet. on .... feet at .... Minimum stage

L. C. D. C. Form 102—50.1—9 28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Monthly discharge of LOWER SYCAMORE DRAIN **River / Creek**

at / near Chevy Chase Drive Glendale **for the year ending Sept. 30, 19**38.

(Drainage area 6.19 square miles)

M. Daily DISCHARGE IN SECOND-FEET

MONTH	Maximum	Minimum	Mean	RUNOFF: Per square mile	RUNOFF: Depth in inches on drainage area	RUNOFF: Total in acre feet	Accuracy
October							
November							
December Rec'd. only	3.66	Dry	1.39			0.92	
January	.14	"	.01			0.89	
February	7.01	"	.45			26.14	
March	3.71	"	.38			23.19	
April	1.15	"	.04			2.52	
May	3.32	"	.18			9.16	
June			NO FLOW				
July	.01	"				.02	
August			NO FLOW				
September			NO FLOW				
The year / period						102.84	

NOTE:

SAWPIT CREEK - U.S.G.S.

Location:
One quarter mile below junction of Monrovia and Sawpit Creeks.
Approximately 1½ miles north of Monrovia, Los Angeles County. One half mile below Flood Control Dam.

Drainage Area:
5.23 sq. mi. (measured on topographic map)

Installed By:
U.S.G.S. Water Resources Branch

Records Available:
November 8, 1916 to Sept. 30, 1928

Gage:
Stevens continuous water stage recorder in rubble masonry, well and shelter on east bank of stream.

Discharge Measurements:
Made from gaging bridge 5 ft. below gage, or by wading near gage.

Channel and Control:
Stream bed consists of coarse gravel and boulders. Concrete control built in summer of 1927, with low water notch 1 ft. deep and 2 ft. crest. High water notch 3 ft. deep, 10 ft. wide.

Extremes of Discharge:
Maximum stage during year, from water stage recorder 1.2 c.f.s. on Feb. 4, 1928. Stream dry at gage for several months during the summer.

Diversions:
Part of the water supply for Monrovia is obtained from the two branches of Sawpit Creek above gage. See U.S.G.S. Records for Monrovia Pipe Line.

Regulation:
Flow regulated by Flood Control dam.

Accuracy:
Records are fair, Accuracy fair.

Cooperation:
Constructed and operated by U.S.G.S. Water Resources Branch in 1927-28 in conjunction with Los Angeles County Flood Control District.

F. C. Dist. Form 104 - 500 -9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U5

Discharge measurements of SAWPIT ~~River~~ Creek

at ~~near~~ U. S. G. S. STATION, during the year ending September 30, 1928

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1927		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	Hoff
1	5-27	F. J. Cornick	9.5	3.58	4.08	1.85	14.62		.6		.6	0	120	
	1928													27
2	4-12	Dalton-Probst	6.0	1.05	1.40	---	1.47		.6		5	-	1/20	64
3	4-12	" "	11.0	4.90	2.78	1.21	13.65		.6		6	-.20	1/4	"
4	4-12	Dalton-Ebert	7.0	2.15	1.40	0.54	3.02		.6		6	-.24	1/8	"
5	4-12	" "	7.0	1.15	1.68	0.34	1.93		.6		4	-.12	1/12	"
6	4-12	" "	4.5	1.02	1.37	0.40	1.40		.6		5	-.01	1/20	
7	4-12	Dalton-Probst	10.0	3.01	2.18	0.92	6.57		.6		8	-.16	1/5	
														271
8	4-12	Brewster-Hines	5.0	2.30	2.57	0.84	5.91		.6		3	0	-	550
9	4-12	" "	2.0	0.46	1.20	.25	0.55		.6		3	-.07	1/20	"
10	4-12	" "	3.2	0.52	1.42	0.405	0.74		.6		3	-.01	1/20	"
11	4-12	" "	4.0	0.70	1.20	0.415	0.84		.6		3	-.01	1/30	"
12	4-12	" "	6.0	0.90	2.02	0.45	1.82		.6		4	-.06	1/20	"

F. C. Dist. Form 101—1M—9-28

Data furnished by United States Geological Survey-
Water Resources Branch To

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 382

Daily gage height, in feet, discharge, in second feet of SAWPIT CREEK NEAR MONROVIA, CALIF.

for the year ending Sept. 30, 1928

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1		.1	.2	.2								
2		.1	.2	.2	.1							
3		.1	.2	.2								
4		.1	.2	.2	1.2							
5		.1	.2	.2	.4	.2						
6		.1	.2	.2	.3							
7		.1	.2	.2	.2							
8		.1	.2	.2	.1							
9		.1	.2	.1								
10		.1	.3									
11		.2	.3									
12		.2	.2				.4					
13		.2	.2				.1					
14		.2	.1	.1								
15		.2	.1	.1								
16		.2	.1									
17		.2	.1									
18		.2	.1									
19		.2	.1									.8
20		.2	.2									1.0
21		.2	.3									.9
22		.2	.2									.7
23		.2	.1									.6
24		.2	.1									.6
25		.2	.2	.1								.7
26		.2	.4									.8
27		.2	.2									.8
28		.2	.2									.7
29		.2	.2		.2							.6
30		.2	.2									.6
31	.2		.2									
	.2*	5.0*	5.9*	2.0*	2.5*	.2*	.5*					8.7*
Mean	0.0065	0.167	0.190	0.065	0.086	0.0065	0.067	0	0	0	0	0.29
Acre-Feet	0.4	9.9	11.7	4.0	4.9	0.4	0.1	0	0	0	0	17.3

Mean . . 0.0683
Acre ft 49.6

F. C. Dist. Form 101—1M—9-28

Data furnished by United States Geological Survey-
Water Resources Branch
to
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 382

Daily ~~gage height, in feet,~~ discharge, in second feet of SAWPIT CREEK AND MONROVIA PIPE LINE NEAR MONROVIA, CALIFORNIA. for the year ending Sept. 30, 19 28

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	1.2	1.6	1.5	1.7	1.3	1.3	1.5	1.1	1.2	.8	.8	.8
2	1.2	1.6	1.5	1.7	1.4	1.3	1.5	1.1	1.2	.8	.8	.8
3	1.2	1.6	1.5	1.7	1.5	1.7	1.5	1.1	1.2	.8	.8	.8
4	1.2	1.4	1.5	1.7	2.8	1.9	1.7	1.1	1.1	.8	.8	.8
5	1.2	1.4	1.5	1.7	2.0	2.1	1.7	1.1	1.1	.8	.8	.8
6	1.2	1.4	1.5	1.7	2.0	1.9	1.5	1.1	1.1	.8	.8	.8
7	1.2	1.4	1.5	1.7	1.9	1.8	1.5	1.1	1.1	.8	.8	.8
8	1.2	1.4	1.5	1.7	1.8	1.6	1.5	1.1	1.1	.8	.8	.8
9	1.2	1.4	1.5	1.6	1.7	1.5	1.5	1.1	1.1	.8	.8	.8
10	1.2	1.6	1.8	1.5	1.7	1.5	1.5	1.1	1.1	.8	.8	.8
11	1.2	1.7	2.0	1.5	1.7	1.5	1.5	1.2	1.1	.8	.8	.8
12	1.2	1.5	1.9	1.3	1.7	1.5	1.9	1.3	1.1	.8	.8	.8
13	1.2	1.7	1.7	1.3	1.5	1.5	1.6	1.3	1.1	.8	.8	.8
14	1.2	1.9	1.8	1.4	1.5	1.5	1.4	1.3	1.1	.8	.8	.8
15	1.2	1.7	1.8	1.6	1.5	1.5	1.4	1.3	1.1	.8	.8	.8
16	1.1	1.7	1.8	1.5	1.5	1.5	1.3	1.3	1.1	.8	.8	.8
17	1.1	1.7	1.7	1.4	1.5	1.5	1.3	1.3	1.1	.8	.8	.8
18	1.1	1.7	1.7	1.3	1.5	1.5	1.3	1.3	1.1	.8	.8	.8
19	1.1	1.7	1.7	1.3	1.3	1.5	1.3	1.3	1.1	.8	.8	1.6
20	1.1	1.5	1.8	1.3	1.3	1.5	1.3	1.3	1.1	.8	.8	1.8
21	1.1	1.5	2.0	1.3	1.3	1.5	1.3	1.3	1.1	.8	.8	1.7
22	1.1	1.5	2.0	1.3	1.3	1.5	1.3	1.3	1.0	.8	.8	1.5
23	1.1	1.5	1.7	1.3	1.3	1.5	1.2	1.3	1.0	.8	.8	1.4
24	1.1	1.5	1.6	1.3	1.3	1.8	1.2	1.3	1.0	.8	.8	1.3
25	1.1	1.5	1.9	1.4	1.3	1.5	1.1	1.3	1.0	.8	.8	1.5
26	1.3	1.5	2.3	1.3	1.3	1.6	1.2	1.2	.9	.8	.8	1.6
27	1.3	1.5	1.9	1.3	1.3	1.7	1.2	1.2	.9	.8	.8	1.6
28	1.3	1.5	1.9	1.3	1.3	1.7	1.2	1.2	.8	.8	.8	1.5
29	1.3	1.5	1.9	1.3	1.5	1.5	1.1	1.2	.8	.8	.8	1.4
30	1.3	1.5	1.9	1.3		1.5	1.1	1.2	.8	.8	.8	1.4
31	1.7		1.9	1.3		1.5		1.2		.8	.8	
	372*	466*	542*	450*	450*	489*	416*	376*	316*	248*	248*	327*
Mean	1.20	1.55	1.75	1.45	1.55	1.58	1.39	1.21	1.05	.80	.80	1.09
Acre-Feet	73.8	92.2	108	89.2	89.2	97.2	82.7	74.4	62.5	49.2	49.2	64.9

Mean .. 1.28

L. C. Dist. Form 101—IM—9-28

Data furnished by United States Geological Survey-
Water Resources Branch To

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 419

Daily gage height, in feet, discharge, in second feet of Dalton Creek Near Glendora, Calif.

for the year ending Sept. 30, 1928

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3							.3					
4					4.2		.2					
5					2.0	.1	.2					
6					1.2	.5	.1					
7					.6	.1	.1					
8					.4	.1	.1					
9						.1						
10						.1						
11						.1						
12						.1						
13						.1						
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

SAN DIMAS CREEK NEAR SAN DIMAS, CALIFORNIA

Location:
In SW¼ NE¼ Sec. 25, T. 1, N.,R. 9, W. at mouth of San Dimas Canyon, 3 miles northeast of San Dimas, about 1 mile below Los Angeles County Flood Control dam.

Drainage Area:
18.39 sq.mi. measured on U.S.G.S. topographic map.

Elevation:
About 1250 ft. above sea level.

Installed By:
U.S.G.S. Water Resources Branch, November 8, 1916.

Records Available:
From Nov. 8, 1916 to Sept. 30, 1928 at U.S.G.S.

Gage:
Staff gage on concrete wall of recorder house east side of stream. Stevens continuous water-stage recorder installed in concrete stilling well just above concrete control.

Discharge Measurements:
Low water measurements made by wading near gage. High water measurements made from cable car 50 ft. above gage.

Channel and Control:
Channel sandy bottom, concrete control rebuilt in 1927. Low water flow carried through notch in control, crest of notch is at zero on gage - datum of gage changed when control was rebuilt.

Extremes of Discharge:
Maximum 7.0 c.f.s. Feb. 4, 1928
Minimum 0.1 c.f.s. at various times during summer months.

Diversions:
No diversions above gage.

Regulation:
Flow regulated by discharge from Los Angeles County Flood Control dam.

Accuracy:
Good

Cooperation:
Constructed and operated by U.S.G.S. Water Resources Branch. Operated 1927-28 in conjunction with Los Angeles County Flood Control District.

F. C. Dist. Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U10

Discharge measurements of SAN DIMAS ~~River~~ Creek

at near U. S. G. S. STATION, during the year ending September 30, 19....

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1	4-13	R. P. Dalton				.17	.45		.6				1/2	
2	"	C. L. Brewster	12.5	9.57	4.48	1.785	42.83		.6		6	+.01	1/6	271 650
3	"	F. C. Ebert				.645	4.12		.6				1/6	
4	"	R. P. Dalton				.74	5.10		.6				1/2	
5	"	" " "				.755	5.30		.6				1/6	
6	"	F. C. Ebert				.75	4.98		.6				1/4	
7	"	Dalton-Ebert	9.5	4.53	1.34	.96	6.05		.6				-	
8	"	R. P. Dalton				1.55	15.53		.6				1/10	
9	"	" " "				1.10	8.40		.6				-	
10	"	" " "				1.25	9.75		.6				-	
11	"	Dalton Ebert	17.0	15.03	2.42	1.68	36.40		.6				1/6	
12	"	R. P. Dalton				1.78	50.21		.6				-	
13	"	C. L. Brewster				1.35	11.08		.6				1/12	
14	"	" " "				1.65	17.86		.6				1/12	
15	"	" " "				1.54	14.64		.6				1/12	
16	"	" " "				1.74	41.69		.6				1/8	
17	"	" " "				0.65	3.91		.6				1/6	
18	"	" " "				0.68	4.09		.6				1/10	
19	"	" " "				0.605	3.27		.6				1/12	
20	"	" " "				0.555	2.92		.6				1/12	
21	4-9-28	R. P. Dalton				0.44	1.83		.6				1/4	

Data Furnished By The
United States Geological Survey - Water Resources Branch

F. C. Dist. Form 101—1M—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 384

Daily ~~gage height, in feet~~, discharge, in second feet of SAN DIMAS CREEK NEAR SAN DIMAS, CALIF.

for the year ending Sept. 30, 1928.

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	0.1	0.2	0.6	2.1	1.4	0.7	0.5	1.8	1.8	1.7	0.2	0.1
2	.1	.1	.7	2.0	1.2	.7	.5	1.9	1.3	1.6	.2	.1
3	.1	.1	.6	1.9	1.8	.8	.6	2.0	1.3	1.4	.2	.1
4	.1	.1	.5	1.8	7.0	.8	.6	1.9	1.3	1.4	.2	.1
5	.1	.1	.6	1.7	.7	.7	.6	1.7	1.5	1.3	.2	.1
6	.1	.3	.7	1.7	.6	.5	.6	1.8	1.8	1.4	.2	.1
7	.1	.3	.8	1.7	.6	.5	.6	1.9	1.9	1.4	.1	.1
8	.1	.6	.8	1.6	.5	.4	.5	1.7	1.9	1.4	.1	.2
9	.1	.6	.9	1.5	.4	.4	.5	.8	1.8	1.4	.1	.2
10	.1	1.1	4.8	1.6	.4	.4	.5	.6	1.8	1.3	.1	.2
11	.1	.9	4.5	1.6	.4	.4	.5	.6	1.9	1.2	.1	.2
12	.1	.8	3.0	1.6	.4	.4	.5	.5	1.9	1.2	.1	.2
13	.1	1.0	2.5	1.6	.4	.5	2.0	.6	1.9	1.2	.1	.2
14	.1	1.0	2.3	1.8	.4	.5	.6	.7	1.9	1.2	.1	.1
15	.1	.8	2.2	1.9	.4	.5	.5	.8	1.9	1.1	.1	.1
16	.1	.7	2.0	2.0	.4	.4	.5	.8	1.6	1.2	.2	.1
17	.1	.6	1.8	1.9	.4	.4	.6	1.1	1.5	1.2	.1	.1
18	.1	.6	1.6	1.7	.4	.4	.7	1.0	1.6	1.2	.1	.1
19	.1	.6	1.5	1.6	.4	.4	.8	1.2	1.7	1.1	.1	.1
20	.1	.6	1.5	1.6	.5	.4	.9	1.6	1.7	1.1	.1	.1
21	.1	.7	2.0	1.7	.7	.4	.9	1.2	1.7	1.0	.1	.1
22	.1	.7	2.1	1.7	.7	.5	.8	1.2	1.7	.7	.1	.1
23	.1	.7	1.9	1.8	.6	.5	.8	1.2	1.5	.3	.1	.1
24	.1	.6	1.8	1.8	.6	.6	1.0	1.4	1.5	.3	.1	.1
25	.2	.6	1.6	1.7	.6	.6	1.6	1.4	1.5	.2	.1	.1
26	.2	.7	3.7	1.7	.6	.5	1.7	1.4	1.4	.2	.1	.1
27	.2	.7	3.0	1.7	.6	.6	1.7	1.4	1.4	.2	.1	.1
28	.2	.6	2.5	1.6	.6	.5	1.7	1.5	1.4	.2	.1	.1
29	.2	.6	2.4	1.4	.6	.5	1.7	1.7	1.5	.2	.1	.1
30	.2	.6	2.4	1.4	....	.4	1.7	2.1	1.7	.2	.1	.1
31	.3	....	2.2	1.4	....	.4	....	2.1	....	.2	.1	....
	39	176	595	528	243	157	267	416	493	297	38	36
Mean	0.13	0.59	1.92	1.70	0.84	0.51	0.89	1.34	1.64	0.96	0.12	0.12
Acre Feet	8.0	35.1	118.	105.	48.3	31.4	53.0	82.4	97.6	59.0	7.4	7.1

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U7

Discharge measurements of FISH CANYON ~~Creek~~ Creek

at ~~Near~~ U.S. G. S. STATION, during the year ending September 30, 19 28

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	*Sq.-ft.*	*Ft. per sec.*	*Feet*	*Sec.-ft.*	*Per cent diff.*			*No.*	*Total*	*Hours*	
	1928													
1	2-5	R. P. Dalton				2.72	7.10		.6			0	1/2	
2	3-6	R. P. Dalton				2.39	3.29		.6			0	1/3	
3	5-15	R. P. Dalton				2.18	1.07		.6			0	1/6	

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U13

Discharge measurements of PACOIMA ~~River~~ Creek

at U. S. G. S. STATION near , during the year ending September 30, 19 28

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Method Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1927		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.	No.	Total	Hours	Hott
1	6-4	F. J. Cornick	3.2	1.95	1.13	--	2.20	.6	4	--	--	#4
2	8-8	Cornick & Thomas	15.2	11.11	2.04	--	22.63	.6	9	--	--	Hott #3
3	10-18	Cornick & Simmons	1.6	0.77	0.99	1.13	0.76	.6	3	--	--	Hott #4
4	1928 2-4	Marchand	19.5	17.88	4.29	2.17	76.89	.6	17	+.28	3/4	F.C. 271
5	4-11	Dalton-Ebert	10.1	2.90	1.29	1.86	3.75	.6	5	-.03	1/2	647
6	4-11	" "	10.8	2.32	1.17	1.82	2.72	.6	5	-.05	1/12	"
7	4-11	" "	10.3	3.87	1.65	1.87	6.39	.6	6	+.01	1/12	"
8	4-11	" "	26.2	8.11	1.86	1.99	15.10	.6	18	-.02	1/2	"
9	4-11	Brewster -Cornick	9.0	2.85	1.77	1.88	5.05	.6	5	0	1/6	271 650
10	4-11	" "	9.5	5.82	2.40	1.98	13.67	.6	5	+.01	-	"
11	4-11	" "	8.2	2.12	1.83	1.86	3.88	.6	5	-.04	1/12	"
12	4-11	" "	6.2	1.07	0.82	1.77	0.88	.6	3	-.14	1/8	"
13	4-11	" "	9.5	5.43	3.05	1.99	16.54	.6	6	-.01	1/4	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of ROGERS ~~River~~ Creek

~~near~~ AZUSA U.S.G.S. , during the year ending September 30, 1928.

No.	Date 1928	Made by	Width Feet	Area of section Sq.-ft.	Mean velocity Ft. per sec.	Gage height Feet	Discharge Sec.-ft.	Rating: Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
1	2-5	R. P. Dalton	8.0	4.92	1.10	3.37	5.38		.6		9	0	½	332 271-647
2	3-6	" " "	6½	2.48	.7+	3.20	1.75		.6		7		1/3	

F. C. Dist. Form 104 - 500 - 9-26

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F-5

Discharge measurements of LOS ANGELES River ~~Creek~~

at VAN NUYS BLVD. , during the year ending September 30, 19 28.

No.	Date 1928	Made by	Width Feet	Area of section Sq.-ft.	Mean velocity Ft. per sec.	Gage height Feet	Discharge Sec.-ft.	rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
1	3-4	Moon-Simmons	27	27.06	1.37	4.17	34.62	.6			9	.15	1	H-120 271
2	3-5	Anderson-Noe-Compton	2.5	1.68	1.41	2.64	2.37	.6			3		¼	636

F. C. Dist. Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F-7

Discharge measurements of LOS ANGELES River

at UNIVERSAL CITY, during the year ending September 30, 19 28

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271-
1	1-27	M. Rupert	25	22.61	2.20		52.02		.6		13	+.01	½	655
2	1-27	" "	21	23.34	2.55		52.67		.6		11	.00	½	655
3	2-4	Anderson - Evans	29	56.55	5.47	8.40	309.30		.6		6	0	35mi	636
4	2-8	Moon-Brennan	42	26.40	2.25	6.20	59.45		.6		10	0	45mi	655
5	2-8	" "	32	25.65	2.45	6.20	62.92		.6		8	0	45mi	655
6	2-17	" "	37.5	30.41	2.80	6.025	85.24		.6		11	0	25mi	H-120
7	2-17	" "	27.5	25.34	3.24	6.01	82.15		.6		11	.02	20mi	H-120
8	3-5	Anderson - Newton	29	29.50	3.29	6.10	97.00		.6		14	0	5/4	271 636
9	6-1	R. P. Dalton	9.0	5.75	1.18	5.35	6.80		.6		9		13mi	647
	10-4	M. Rupert	11.5	6.60	1.08		7.1		.6		14		1/3	nFC13
	10-12	Rupert-Bergman	12.0	6.34	1.00		6.35		.6		9		1/4	262 556
	10-20	Rupert-Bollinger	10.5			5.14	6.83		.6		11	.0	1/3	556

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F-11

Discharge measurements of E. WASH OF BIG TUJUNGA ~~XXXX~~ Creek

~~XX~~ near S.P.R.R. Bridge, during the year ending September 30, 19 28

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. ees.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1	9-4	Moon-Simmons	11557.15	4.25		3.87	243.1		.6		17	.45½		H-120

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 35

Discharge measurements of LOS ANGELES River ~~Creek~~

at ~~Creek~~ NORTON AVE, Near Downey, during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	1-26	Milan Rupert	68.5	23.6	1.12	2.55	26.41		.6		13	-.01	1/2	650
2	2-4	" "	239	316	3.59	3.50	1137		.6		17	-.29	1¼	"
3	2-13	" "	96.5	47.1	1.08	2.71	50.8		.6		13	0	3/4	"
4	3-13	" "	106	51.4	1.76	2.98	90.6		.6		11	0	1/2	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 36

Discharge measurements of LOS ANGELES River

at WILLOW ST., near Long Beach, during the year ending September 30, 1928.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271-
1	2-1	Rupert-Moon-Brenan	41	24.77	1.11	2.64	27.53		.6		12	+.005	1	655
2	2-13	Rupert & Wood Per.	42	36.4	1.54	2.37	56.04		.6		13	0		655
3	3-5	McAulay, Williams & Hargrave	93	144.4	4.39	2.90	633.92		.6		9	0 10	3/4	251 485
4	3-5	Hargrave, Harmer & Purdy	158	213.1	2.85	3.31	607.53		.6		32	0 22	1½	485
5	3-5	Hargrave, Harmer & Purdy	124	191.3	3.65	3.30	697.9		.6		15	0 40	2¼	485
6	3-13	Rupert & Wood	80	56.35	1.19	2.50	67.50		.6		13		1/3	

No. 2 and No. 6 are included in percolation measurements.

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of SAN JOSE ~~River~~ Creek

~~near~~ WORKMAN MILL ROAD , during the year ending September 30, 19 28

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating: Percent diff.	Method Code	Meas. secs. No.	G. Ht. adjustm't Total	Time Hours	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.						
1	2-4-28	Brewster	38				60.08	.6		6		1/3	871-687

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of LITTLE TUJUNGA River

at STATE HIGHWAY BRIDGE, during the year ending September 30, 19 28

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Gage rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	*Sq.-ft.*	*Ft. per sec.*	*Feet*	*Sec.-ft.*	*Percent diff.*			*No.*	*Total*	*Hours*	
1	2-4-28	Marchand	22	4.00	3.26	3.30	14.65		.6		11		1/4	FC #

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of SAN GABRIEL River

at AZUSA, during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1927		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	Hoff
1	5-28	F. F. Cornick	47.0	31.36	1.89	2.35	59.30		.6		10		½	120
2	6-3	" " "	44.0	26.89	1.89		50.84		.6		11			120
3	2-6	Cornick-Patterson	55.3	46.18	2.25	2.63	104.02		.6		13		55mi	271 636

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of LITTLE COLDBROOK ~~River~~ Creek

~~near~~ near SOLDIER CREEK , during the year ending September 30, 19

Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Method Coef.	Meas. sec.	G. Ht. change	Time	Meter No.
1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.	No.	Total	Hours	271
10-3	R. P. Dalton	4.0	1.13	.90		1.02	.6	5		5mi	647
10-3	" " "	1.7	.50	.50		.25	.6	3		5mi	647
9-26	" " "	1.0	.30	.50		.15	.6	2		5mi	647
9-26	" " "	3.9	1.08	.96		1.	.6	7		10mi	647

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of BIG SANTA ANITA Creek

near FOOTHILL BLVD. , during the year ending September 30, 19 28

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. No.	Gage Ht. change	Time	Meter No.
	1927		Feet	Sq.ft.	Ft. per sec	Feet	Sec.ft.	Percent diff.			No.	Total	Hours	
1	9-30	F. J. Cornick	7.4	1.08	.58		1.16		.6		4			43
2	10-5	" " "	3.0	0.57	1.38	4.52	0.79		.6		1			43

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 71

Discharge measurements of BIG SANTA ANITA River / ~~Creek~~

at Cook-Woodley Intake near

, during the year ending September 30, 19 28

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. sec'y No.	G. Ht. change Total	Time Hours	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.						
	1927													
1	10-5	F. J. Cornick	9.0			1.10	8.27			.6	8	0		Hoff 4
2	10-5	" " "	9.8							.6	5	0		"
3	10-5	" " "	4.5							.6	5	0		"
4	10-5	Big Santa Anita at Foothill Blvd.	3.00	0.57	1.38	4.52	0.79			.6	1	0		"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F-17

Discharge measurements of PACOIMA ~~River~~ Creek

~~at~~ near SAN FERNANDO, during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1927		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1	10-8	F. J. Cornich	7.5	3.46	1.79		6.21	.6			4	0	1 1/6	H-4B

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F-18

Discharge measurements of PACOIMA ~~River~~ Creek

near MULHOLLAND ST. (Foothill) , during the year ending September 30, 19 30

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method Coef.	Meter No.	G. Ht. change	Time	Meter No.
			Feet	*Sq.-ft.*	*Ft. per sec.*	*Feet*	*Sec.-ft.*	*Per cent diff.*		*No.*	*Total*	*Hours*	
1	10-8-27	Cornick	12.8	5.30	1.03		5.48	.6		5			H-4B

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 30

Discharge measurements of LITTLE DALTON ~~River~~ Creek

at LORRAINE ST. ~~Creek~~, during the year ending September 30, 19 28.

No.	Date 1928	Made by	Width *Feet*	Area of section *Sq.-ft.*	Mean velocity *Ft. per sec.*	Gage height *Feet*	Discharge *Sec.-ft.*	Rating *Per cent diff.*	Method	Coef.	Meas. rees. *No.*	G. Ht. change *Total*	Time *Hours*	Meter No.
1	2-4	C. L. Brewster	4.0	1.2	1.5	.10	1.83		.6		3	0	1/6	F 9
2	5-17	Cornick & Bickell	2.6	.82	.45	-	.37		.6		5	0	-	120 271
3	2-5	C. L. Brewster	3.0	.46	1.0	0.0	.43		.6		2	0	1/6	637

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 25

Discharge measurements of BEAR CREEK River / Creek

at above mouth
near , during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	*Sq.-ft.*	*Ft. per sec.*	*Feet*	*Sec.-ft.*	*Percent diff.*			*No.*	*Total*	*Hours*	
1	2-8-28	Crawford & Patt.	26.5	24.07	1.12	-	27.07		.6		15	-	1/3	271-666

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 26

Discharge measurements of NORTH FORK OF WEST FORK SAN GABRIEL River ~~Creek~~

at ~~Mouth~~ F. C. Ga. NARROWS . during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1	3-8	Crawford&Patterson	15.4	9.55	9.97	1.81	9.31		.6		11		1/3	271-666
2	3-12	" "	13.9	8.82	0.72	1.73	6.32		.6		12		1/4	
3	7-5	R. P. Dalton	9.8	4.39	.59	1.62	2.45		.6		10	0	1/3	647
4	7-13	" " "	10.	5.04	.46	1.60	2.33		.6		10		1/3	647
5	8-9	Dalton-Tompkins	5.8	3.29	.44	1.59	1.45		.6		6		1/4	USGS 885
6	6-20	R. P. Dalton				1.66			.6		15		1/3	
7	9-26	" " "	5.5	2.79	.87		2.4		.6		6		1/6	271-647

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F 8-R 5

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 89

Discharge measurements of SAN GABRIEL River

at HOAG RANCH, during the year ending September 30, 1927

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1927		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1		White	130	352.5	10.26	5.0875	3618.		.6		12		½	
2	2-16	Hall	120	495.0	13.00	8.90	6436.		.6		12		1 25	
3	2-18	White	125	204.8	9.81	6.00	2009.		.6		8		½	
4	2-18	"	125	188.0	8.64	5.92	1624.		.6		7		½	
5	2-17	Scott	123	230.5	11.78	6.49	2717.		.6		9		1	
6	2-16	White	125	292.0	9.31	8.20	2723.		.6		12		½	
7	2-16	"	130	313.0	9.17	8.47	2871.		.6		11		¾	
8	2-16	Stevens							.6				½	FCI
9	2-16	White							.6				1/3	FCI
10	2-16	"							.6				½	FCI
11	2-19	"							.6				½	FCI
12	2-20	Stevens	57.	139.2	6.96	4.7	969.2		.6		6			
13	5-4	F.J.Cornick	41.	48.6	2.55	3.11	123.9		.6		9		25m	1275
14	5-12	Cornick & Hay	40	38.7	2.07	2.98	80.1		.6		8		½	Hoff
15	5-26	Cornick	39.5	32.54	2.89	2.80	93.88		.6		9			H-120
16	6-3	"	37	27.5	1.70	2.72	46.82		.6		7			H-120
17	6-22	"	24	14.0	1.18		16.61		.6		5			H-120
18	2-13-1926		40	94.0	7.73	5.45	726.75		.6		4		1	
19	4-5-1926		130	459.0	8.17	7.60	3752.0		.6		5		¾	
20	4-5-1926		137	438.	9.48	7.10	4155.1		.6		12		1 2/3	
21	4-6-1926	Hall	132	326.	10.40	7.05	3399.8		.6		12		2	Gurley
22	4-8-1926	"	131	432.	9.61	7.05	4155.2		.6		9		2	

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of SAN GABRIEL (Miscellaneous) River ~~Creek~~

~~at~~ on the East, West and North Forks, during the year ending September 30, 1928.

No.	Date	Made by at	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1	2-6	San Gabriel below S.C.E. Power House												
		W. H. Crawford	60.3	50.6	2.33	None	117.9		.6		25		3/4	271-666
2	1-17	West Fork-San Gabriel - ½ mile West of Bear Creek												
		Dalton & Hay	10.5	7.3	1.56	None	11.4		.6		10		?	332
3	1-17	West Fork-San Gabriel - ½ mile West of Bear Creek												
		Dalton & Hay	8.4	6.8	1.60	None	10.8		.6		9		?	332
4	1-18	West Fork - 2 Miles above North Fork												
		W. H. Crawford	6.3	6.2	1.65	None	10.2		.6		8		?	271-666
5	1-18	West Fork 3½ Miles above North Fork												
		W. H. Crawford	13.8	6.9	1.45	None	9.9		.6		14		1/2	262-556
6	1-18	West Fork 3¼ Miles above North Fork												
		W. H. Crawford	12.9	8.1	1.23	None	10.0		.6		13		1/2	"
7	1-19	West Fork Below Bear Creek												
		W. H. Crawford	24.5	14.1	1.25	None	17.6		.6		13		1/2	"
8	1-19	West Fork Below North Fork												
		W.H. Crawford	26.7	16.7	1.40	None	23.4		.6		14		1/2	"
9	2-8	West Fork Above Bear Creek												
		Crawford&Patterson	23.0	15.2	2.54	None	38.5		.6		14		1/3	271-666
10	4-17	Little Coldbrook - at Coldbrook Camp												
		R. P. Dalton	1.5	.46	.98	None	.45		.6		3		?	271-647
11	4-17	Soldier Creek at Coldbrook Camp												
		R. P. Dalton	8.0	3.5	.76	None	2.6		.6		8		?	"
12	6-13	North Fork of West Fork at Junction												
		R. P. Dalton	8.0	3.5	.79	None	2.8		.6		8		?	"
13	6-13	West Fork 50 Ft. above Junction with North Fork												
		R. P. Dalton	7.5	3.4	1.24	None	4.2		.6		8		1/3	"
14	6-20	West Fork 75 Ft. above Junction with North Fork												
		R. P. Dalton	7.5	3.3	1.07	None	3.5		.6		8		1/6	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of SAN GABRIEL (Miscellaneous-Cont'd) River ~~Creek~~

~~at~~ near on the East, West and North Forks, during the year ending September 30, 1928.

No.	Date	Made by at	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Percent diff.	Method	Coef.	No. Meas. secs.	G. Ht. change Total	Time Hours	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.							
15	6-20	North Fork at Junction with West Fork												
		R. P. Dalton	8.5	3.7	.86	None	3.2		.6		8		1/6	271-647
16	7-5	North Fork of West Fork at Junction												
		R. P. Dalton	6.8	3.3	.66	None	2.2		.6		7		1/6	"
17	7-5	West Fork 75 Ft. above Junction with North Fork of West Fork.												
		R. P. Dalton	7.0	1.9	.70	None	1.4		.6		7		1/6	"
18	7-13	West Fork Above junction North Fork of West Fork												
		R. P. Dalton	5.0	1.5	.59	None	.9		.6		5		1/6	"
19	7-27	North Fork of West Fork 25 Ft. above gage at narrows												
		R. P. Dalton	5.6	3.1	.76	None	2.4		.6		6		1/4	"
20	7-27	West Fork 75 Ft. above junction North Fork of West Fork												
		R. P. Dalton	3.0	.8	.63	None	.5		.6		6		1/6	"
21	7-27	Bear Canyon at Junction with West Fork												
		R. P. Dalton	1.5	.4	.75	None	.3		.6		3		1/6	"
22	7-27	West Fork 50 Ft. above Bear Canyon Junction												
		R. P. Dalton	2.2	.3	.44	None	.2		.6		4		1/6	"
23	8-9	West Fork 75 Ft. above Bear Creek												
		Dalton & Tompkins	1.0	.3	.53	None	.2		.6		2		1/6	USGS 885
24	8-9	Bear Canyon 10 Ft. above West Fork												
		Dalton & Tompkins	1.0	.2	.85	None	.2		.6		2		1/6	"
25	9-26	West Fork Above North Fork												
		R. P. Dalton	2.3	.7	.71	None	.5		.6		4		1/6	271-647
26	2-6	East Fork 1/4 Mile above Forks												
		W. H. Crawford	47.5	31.3	2.39	None	75.5		.6		18		1/2	271-666
27	5-9	East Fork 1/4 Mile above Forks												
		W. H. Crawford	47.0	23.4	1.75	None	41.0		.6		17		1/2	262-556
28	8-8	San Gabriel 1/4 Mile above Junction with Fish Fork												
		Dalton & Tompkins	5.2	2.3	1.47	None	3.4		.6		5		1/6	USGS 885

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of SAN GABRIEL (Miscellaneous - cont'd) River ~~Creek~~

~~at~~ near on the East, West and North Forks, during the year ending September 30, 19 28

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Method rating	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.		No.	Total	Hours	
29	8-8	Fish Fork 100 Ft. above Junction with San Gabriel											
		Dalton & Tompkins	3.8	1.5	.75	None	1.1	.6		8		1/6	USGS 885
30	8-8	Iron Fork 100 Ft. above Junction with San Gabriel											
		Dalton & Tompkins	4.3	1.7	.73	None	1.3	.6		5		1/6	"
31	8-9	Iron Fork 100 Ft. above Junction with San Gabriel											
		Dalton & Tompkins	4.1	1.8	.79	None	1.4	.6		5		1/6	"
32	8-9	Fish Fork 100 Ft. above Junction with San Gabriel											
		Dalton & Tompkins	3.5	1.6	.89	None	1.4	.6		6		1/6	"
33	8-9	San Gabriel 100 Ft. above Junction with Fish Fork											
		Dalton & Tompkins	5.4	2.6	1.60	None	4.1	.6		5		1/6	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Miscellaneous Discharge measurements of Various Streams not regular Stations River Creek

at near in Los Angeles County, during the year ending September 30, 1928.

No.	Date	at Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1927		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
100	10-18	Cook-Woodley Waste at Intake Waste												
		F. J. Cornick	3.0	1.60	1.44	None	2.3		Intr		3		1/6	FC#3
101	10-18	Cook-Woodley Waste - Opposite Weir House												
		F. J. Cornick	1.3	1.1	1.27	None	1.4		"		2		1/6	"
102	10-18	Pacoima Creek at first point below mouth of Canyon												
		Cornick & Simmons	2.5	1.1	1.00	None	1.1		"		5		1/6	FC#4
103	10-28	High Velocity Canal - San Fernando Reservoir												
		Thomas	8.5	16.3	10.32	None	168.2		.2&.8		4		?	?
104	11-17	High Velocity Canal - San Fernando Reservoirs												
		Fredericks&Harmer	21.0	18.9	3.11	None	58.7		.6		10		1/3	FC#4
105	11-17	High Velocity Canal - San Fernando Reservoirs												
		Harmer & Walker	20.9	18.5	3.04	None	56.3		.6		10		1/3	"
106	11-17	High Velocity Canal - San Fernando Reservoirs												
		Walker & Evans	21.0	19.3	3.28	None	63.4		.6		10		1/3	"
107	11-17	High Velocity Canal - San Fernando Reservoirs												
		Evans & Brewster	19.0	20.3	2.76	None	56.1		.6		9		1/3	FC#2
108	11-17	High Velocity Canal - Between San Fernando Reservoirs												
		Newton & Anderson	19.2	19.8	2.58	None	51.1		.6		9		1/3	"
109	12-2	High Velocity Canal - Between San Fernando Reservoirs												
		Weinstock & Wood	15.0	14.9	2.29	None	34.1		.6		15		2	Hoff #120
110	12-2	High Velocity Canal - Between San Fernando Reservoirs												
		Weinstock & Wood	15.0	15.3	2.21	None	33.8		.6		15		1	"
	1928													
111	2-4	Little Santa Anita - Double Drive-Arcadia												
		R. P. Dalton	4.2	.54	2.70	None	1.5		.6		4		1/4	#332
112	2-4	Big Tujunga - 800 Ft. above Mulholland Ave.												
		Marchand	97.0	67.8	5.06	2.02	342.7		.6		21		1/2	FC#2
113	2-20	Elizabeth Creek at Narrows 3½ miles below Radium Springs												
		Moon & Brennan	5.0	1.0	2.16	None	2.2		.6		5		1/6	FC#3

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Miscellaneous Discharge measurements of Various Streams not regular Stations River Creek

at in Los Angeles County , during the year ending September 30, 1928
near

No.	Date	at / Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	Rating (Per cent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
114	2-20	Santa Clara - Russ Siding Camp												
		Moon & Brennan	3.0	1.0	1.20	None	1.2		.6		5		1/6	FC#3
115	5-9	Big Santa Anita - At Cook-Woodley Diversion												
		R. P. Dalton	2.6	.9	.80	.21	.8		.6		5		1/6	271-647
116	5-9	Local Runoff - Duarte Road, Monrovia												
		R. P. Dalton	6.9	2.0	2.50	1.43	5.0		.6		7		1/6	"
117	9-25	Sawpit Creek - 50 Ft. below dam												
		F. J. Cornick	1.6	.8	1.12	None	.9		.6		3		1/6	FC#4

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation in Various Streams ~~River~~ Creek

at ~~near~~ Los Angeles County during the year ending September 30, 19 28

No.	Date	Made by	Width (Feet)	Area of section (Sq.ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.ft.)	Rating (Percent diff.)	Method Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
1	1928 2-13	Los Angeles River - Norton Ave. to Willow St. Long Beach											271
1 A		Norton Ave. Rupert & Wood	96.5	47.10	1.08	2.71	50.78		.6	13	0	3/4	655
1 B		P.E. Bridge " "	37.0	32.03	1.77		56.69		.6	11	0	2/3	"
1 C		Artesia Rd. " "	54.0	27.76	2.03		56.32		.6	10	0	1/3	"
1 D		Riverside -Redondo Rd. "	34.5	34.95	1.82		63.76		.6	7	0	1/3	"
1 E		Long Beach Blvd. " "	78.0	46.30	1.23		56.90		.6	13	0	1/2	"
1 F		Willow St. " "	42.3	36.42	1.54	2.37	56.04		.6	10	0	2/3	"
2	1928 3-13	Los Angeles River - Norton Ave. - Willow St., Long Beach											
2 A		Norton Ave. Rupert & Wood	106.5	61.36	1.76	2.98	90.56		.6	21	0	1/2	"
2 B		P.E. Bridge " "	40.0				89.54		.6	10	0	1/3	"
2 C		Redondo-Riverside Rd " "	61.9				75.36		.6	13	0		"
2 D		Artesia Rd. Rupert & Wood	34.7				72.69		.6	10	0		"
2 E		Long Beach Blvd " "	77.7				80.24		.6	17	0	1/2	"
2 F		Willow St. " "	79.8	56.35	+.19	2.50	67.50		.6	13	0	1/3	"
3	1928 2-17	San Gabriel River - El Monte to Spring St. Long Beach											
3 A		Rising Water 4000' South of El Monte Bridge Rupert & Wood											
3 B		2½ Miles South El Monte Rupert & Wood	16.5				5.44		.6	9	0		"
3 C		San Jose Creek above S. Rupert & Wood	20.0				16.32		.6	9	0		"
3 D		San Gabriel above San Jose Rupert & Wood	18.0				22.00		.6	9	0		"
3 E		400' above Whittier Bridge Rupert & Wood	49.4				47.36		.6	13	0		"
3 F		400' above Los Nietos Rd.	218.0				6.52		.6	13	0		"

L. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of PERCOLATION IN VARIOUS STREAMS River Creek

at LOS ANGELES COUNTY . during the year ending September 30, 1928

No.	Date	Made by	Width Feet	Area of section Sq.ft.	Mean velocity Ft. per sec.	Gage height Feet	Discharge Sec.ft.	Rating Method, Coef. Percent diff.	Meas. sec. No.	G. Ht. change Total	Time Hours	Meter No.
	1928											
4	2-22	Ballona Creek Dusquesne St. to Centinela Boulevard.										271
4-A	300'	Above Dusquesne St. Rupert & Wood	6.6				6.04	.6	5	0	1/4	655
4-B	600'	below Jackson Ave. Rupert & Wood	12.7				4.81	.6	7	0	1/5	"
4-C	400'	below Sepulveda Ave Rupert & Wood	9.5				4.31	.6	6	0	1/4	"
4-D	150'	above Inglewood Blvd. Rupert & Wood	9.0				4.31	.6	8	0	1/5	"
4-E		Centinela Blvd. Rupert & Wood	13.0	4.33	0.93	5.78	4.02	.6	9	0	1/4	"
	1928											
5	2-24	Compton Creek Rosecrans Road to 1000 ft. north of L.A. River										271
5-A		Rosecrans Road Rupert & Wood	7.8	1.22	0.47	0.68	0.69	.6	6	0	1/6	655
5-B		Main St. Compton Rupert & Wood	5.4				1.09	.6	4	0	1/6	"
5-C		West Fork, 300 North E. Fork Rupert & Wood	2.8				0.63	.6	4	0	1/6	"
5-D		1000' N. of L.A. River	4.6				2.23	.6	5	0	1/6	"
	1928											
6	4-7	Big Santa Anita F.C. Station to 50' Above Check Dam R. P. Dalton										271
6-A		F.C. Gaging Station	2.6	1.78	1.56	.56	2.78	.6	5	0	1/6	647
6-B		Cook-Woodley-Diversion	2.3				0.64	.6	5	0	1/6	"
6-C		1600ft. below F.C. Station	2.9				1.06	.6	6	0	1/4	"
6-D		1700 ft. below #6-C	2.7				0.49	.6	5	0	1/12	"
6-E		1025 ft. below #6-D	1.1				0.08	.6	4	0	1/12	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of PERCOLATION IN SAN GABRIEL River / Creek

at / near 6 mile below Edison Intake to Edison Power House, during the year ending September 30, 1928

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
7	3-7	Crawford & Patterson							"					271
7A	.6	Mile below Intake	21.5	8.07			10.18		.6		12	0	1/3	666
7B		Mouth of Brown Gulch	4.5	1.26			0.45		.6		5	0	1/12	"
7C		Pasadena Dam Site	13.8	10.57			14.58		.6		8	0	1/6	"
7D		Hoag Ranch	22.3	13.50			14.89		.6		12	0	1/3	"
7E		U.S.G.S. Station	14.5	9.65			13.00		.6		13	0	1/4	"
7F		At Duarte Ditch	35.4	13.24			8.92		.6		16	0	1/4	"
7G		Foothill Blvd.	6.0	3.68			1.08		.6		5	0	1/6	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of RISING WATER ~~River~~ ~~Creek~~

at ~~near~~ Whittier Narrows, during the year ending September 30, 19 28

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. sec.	G. Ht. change	Time	Meter No.
	1928	Rupert-Harting	Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1A	7-2	Rio Hondo River - Mission Bridge												262
			18.0	9.71	1.33		12.87		.6		12		1/2	556
1B		Slough - Near Montebello												
			23.0	25.60	0.86		22.09		.6		17		1/4	"
1C		Standefer Ditch - Below head waste												
			8.5	10.16	1.63		16.52		.6		15		1/4	"
1D		San Gabriel - Below Standefer Ditch												
			15.0	8.63	2.07		17.90		.6		10		1/3	"
1E		Banta Ditch - Above pipe line												
			8.5	11.72	1.55		18.22		.6		17		1/6	"
1F		Rincon Ditch - New Diversion												
			2.5	.55	.31		0.17		.6		1		1/10	"
1G		Sheep Creek - Above Temple Diversion												
		Harting	2.6	.68	0.63		0.43		.6		2		1/6	"
	1928													
2A	7-16	Rio Hondo - Mission Bridge												DWR
			13.0				8.70		.6					370
2B		Cate Ditch at Recorder												
			7.0				6.28		.6					"
2C		Slough near Montebello												
			36.0				20.19		.6					"
2D		Standefer Ditch - [illegible]												
			[illegible]				11.38		.6					
2E		San Gabriel - [illegible]												

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. .....

Discharge measurements of RISING WATER ~~River~~ ~~Creek~~

at ~~near~~ Whittier Narrows, during the year ending September 30, 19 28

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928	Rupert & Harting	Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
3 A	8-1	Rio Hondo at Mission Bridge												
			10.0	7.56	1.19		8.99		.6		11		1/4	DWR 370
3 B		Cate Ditch at Recorder												
			7.0	4.16	1.51		6.25		.6		14		1/4	"
3 C		Slough near Montebello												
			26.0	22.3	.91		20.26		.6		16		1/3	"
3 D		Standefer Ditch at Head Waste												
			8.0	6.94	1.42		9.87		.6		15		1/4	"
3 E		San Gabriel below head Waste												
			12.0	6.20	1.96		12.21		.6		12		1/4	"
3 F		Banta Ditch at head of pipe line												
			7.0	7.15	1.58		11.29		.6		14		1/6	"
	1928	Harting												
4 A	8-15	Cafe Ditch at Register												
			7.0				5.99		.6		14		1/6	"
4 B		San Gabriel below Standefer Ditch												
			14.5				10.95		.6		13		1/6	"
4 C		Standefer Ditch below Head Waste												
			8.0				9.95		.6		18		1/6	"
4 D		Banta Ditch at head gate												
			4.5				9.03		.6		9		1/6	"
	1928	Milan Rupert	No record of Rio Hondo flow											
5 A	8-31	Rio Hondo at Mission Bridge												
			16.0	7.61	1.24	1.26	9.45		.6		13		1/2	262 556
5 B		Banta Ditch at head gate												
			5.5	7.21	1.51	10.87			.6		11		1/4	"

F. C. Dist.—Form 104—500—9-28

Sheet #3

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.....

Discharge measurements of RISING WATER ~~River Creek~~

at Whittier Narrows
~~near~~ , during the year ending September 30, 19 28.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928	Milan Rupert	Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
5 C	8-31	San Gabriel below Standefer Ditch												262
			13.0	9.38	1.40		13.18		.6		13		1/3	556
5 D		Standefer Ditch below head Waste												
			7.5	6.61	1.82		12.04		.6		14	0	1/3	"
5 E		Slough near Montebello Oil Fields												
			28.0	24.57	0.70		17.18		.6		21	0	1/2	"
5 F		Cate Ditch at recorder												
			6.8	3.97	1.35		5.37		.6		14	0	1/2	"
	1928	Milan Rupert												
6 A	9-14	Rio Hondo at Mission Bridge												
			14.0	9.78	1.26	0.28+	12.88		.6		16	0	1/4	"
6 B		Standefer Ditch below Heat Waste												
			8.4	7.34	1.71		12.58		.6		16	0	1/6	"
6 C		Slough near Montebello Oil Fields												
			28.0	23.24	.78		18.16		.6		21	0	1/3	"
6 D		Cate Ditch at Recorder												
			6.8	3.98	1.23		4.88		.6		13	0	1/4	"
6 E		Banta Ditch above pipe line												
			11.5	21.26	.72		15.38		.6		12	0	1/4	"
6 F		San Gabriel below Standefer Head Waste												
			14.5	9.57	1.61		16.14		.6		15	0	1/4	"