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RUNOFF CURVES.

Southern California Watersheds.

(Arrohead, Cuyamaca, Lake, San Diego, Cottonwood.)

Compiled by W. S. Post.

Nov. 1912 .

513 American Bank Bldg. San Diego, Cal. WILLIAM S. POST
A0000. MEM. A.O.C.E.
1217 HIBERHIAN BLDG.
LOB ANGELES, CALIFORNIA

513 American National Bank Building, San Diego, Cal. Nov. 23, 1912.

Mr. W. D. Lovell,

1415 8th St., S. E.,

Minneapolis, Minn.

Dear Sir:-

The enclosed diagrams are a study of the runoff on the San Diego River, from the records of the San Diego Flume Company. These records have been carefully checked up from the original reports and I consider them trustworthy.

Diagram No. 1 is the runoff in acre feet per sq. mile of Cuyamaca Lake, fro, 1893 to date, 19 years; showing a mean curve and the high and low limits of the variations.

Diagram No. 2, gives the same data for the remainder of the basin, 92 square miles.

Diagram No. 3, repeats the mean curves for Cuyamaca and lower San Diego River, and also shows the curve for Arrowhead, (headwaters of Mojave River near San Bernardino) which has been carefully observed for years, and a curve constructed from the values suggested by Mr. O'Shanghuessy in May. I plot the San Luis Rey for 1905-06 and 1911-12 and the Santa Ysabel for 1911-12 to indicate where they stand in relation to these curves.

It seems to me to demonstrate that our runoff will lie between the Cuyamaca and San Diego Curves and considerably higher then O'Shanghuessy's

Very sincerely yours,

William S. Fort.

RAINFALL-RUN-OFF.

Redord of Actual Gagings on Some Southern California Watersheds.

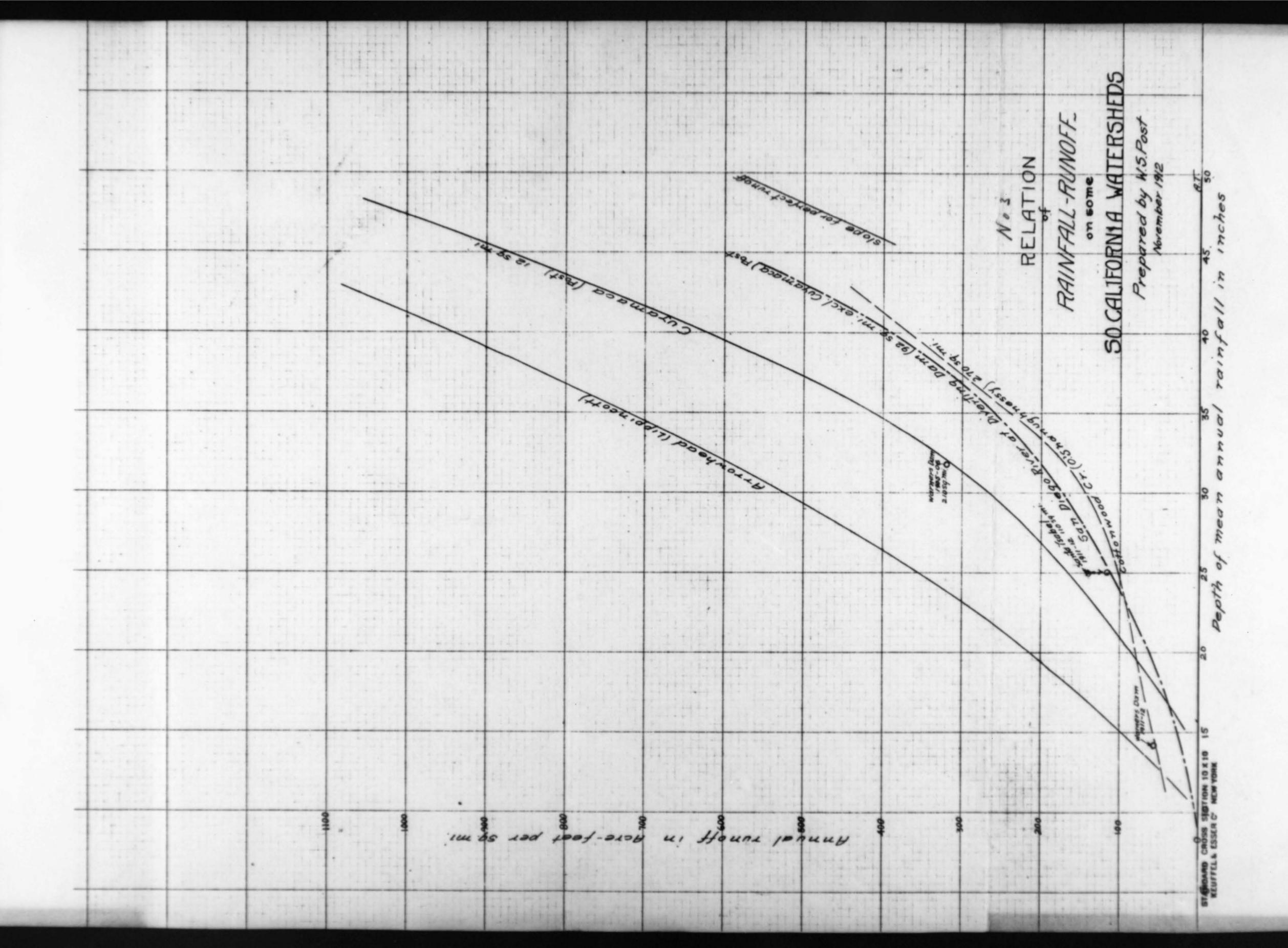
Used in Accompanying Diagrams.

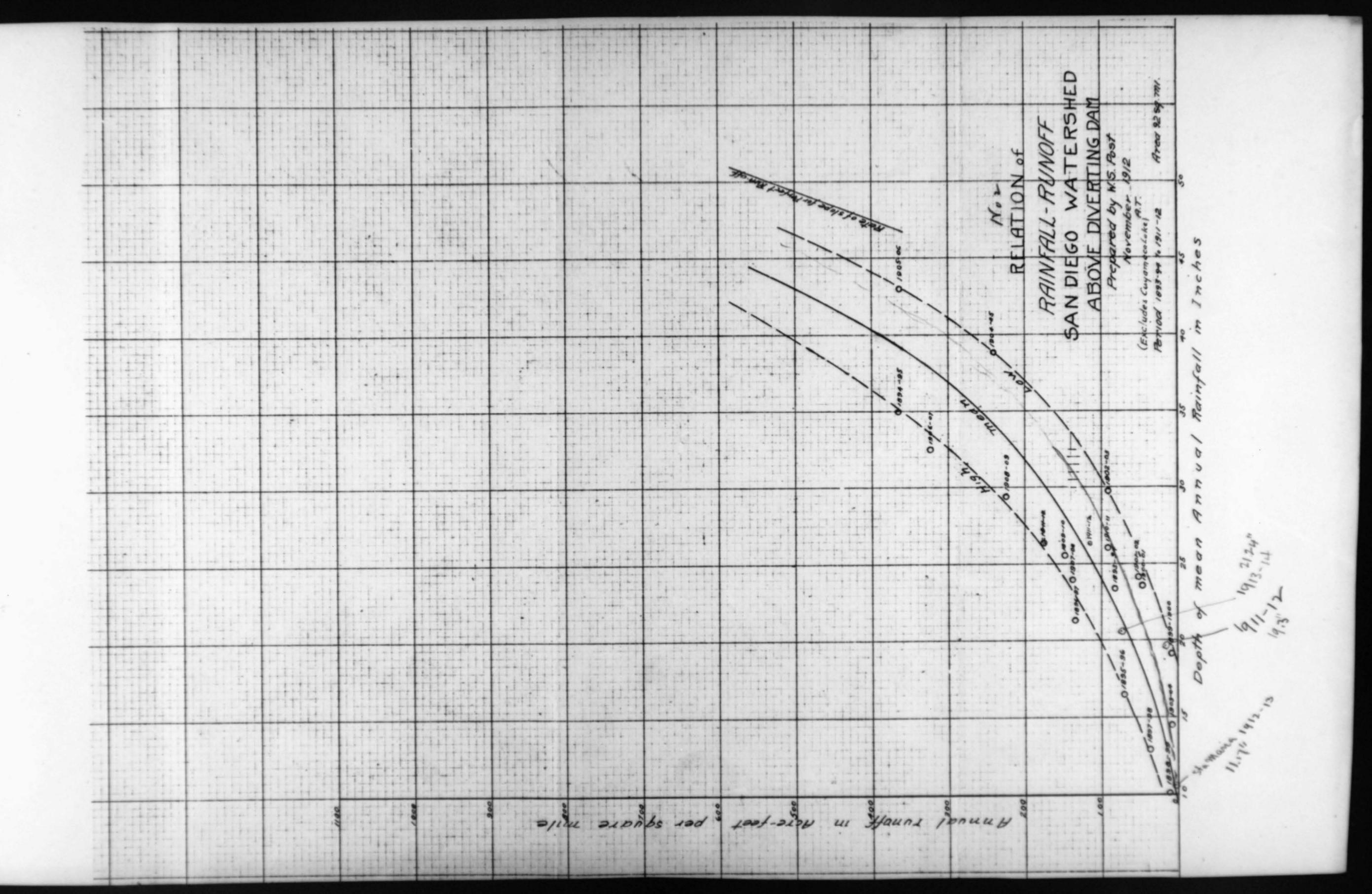
Mean rainfall is approximate, based on various Rain Gage Records.

Watershed	Season or year	Area	Mean Rainfall	Ac.Ft. per Sq. Mi.
Cottonwood 1906 1907 1908 1909		270	32.33 15.67 18.69 22.66	230 144 35 121 45
San Luis Rey (Warners)		210	31.8 14.1	319 55
Santa Ysabel	1911-12	\$10	25.	168_
Cuyamaca	1893-94 94-95 95-96 96-97 97-98 98-99 99-00 1900-01 01-02 08-03 03-04 04-05 05-06 06-07 07-08 08-09 09-10 10-11 11-12 Average	12	12.77 46.3 19.8 32.9 23.4 19.7 23.4 36.2 30.4 31.8 19.8 48.9 46,4 37.6 24.1 37.0 28.4 28.4 28.3 32.9	214 941 179 351 69 39 22 253 196 209 41 568 1065 772 267 598 428 231 293 354.5

RAINFALL-RUN-OFF. Cont'd.

Watershed	Season or year	Area	Mean Raingall	Ac.Ft. per Sq. Mi.
San Diego				
Diverting D		92	22.8	82
	94-95		35.	366
	95-96		16.5	70
	96-97		21.3	136
	97-98		12.9	38
	98-99		10.2	11
	99-00		19.3	7
	1900-01		23.6	47
	01-02		24.2	50
	02-03		29;3	91
	03-04		14.5	- 8
	04-05		38.8	240
	- 05-06		43.	363
	06-07		32.5	324
	07-08	ince a la	23.9	137
	08-09	All All	29.4	225
	09-10		25.6	148
	10-11	A Part Service	26.1	91
	11-12		26.4	146
	Average		29.6	133





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Ed Fletcher Papers

1870-1955

MSS.81

Box: 40 Folder: 13

Business Records - Reports - Post, W.S - "Report on Runoff Curves, Southern California Water Sheds"



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