Meas No 209

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

* See back this sheet.

Date 4-14-42, 19 ___ **DISCHARGE MEASUREMENT NOTES**

Brazos River, at Richmond, Tex.

Dist. from initial point	Angle coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in vertical	VELOCITY Mean in section	Area	Mean depth	Width	Discharge
REW 57		0					0	.02	26			—
65	.10		.2			~~.49~~	.05	1.38	100			140
75	.99					~~2.74~~	2.71	3.54	263			930
90							4.37	4.68	372			1740
105							4.98	4.82	449			2160
120							4.67	4.94	617			3050
140							5.21	5.40	584			3150
160							5.60	5.46	560			3060
180							5.33	5.56	543			3020
200							5.79	5.60	545			3050
220							5.42	5.38	570			3070
240							5.33	5.46	604			3300
260							5.60	5.74	617			3540
280							5.89	5.66	610			3450
300							5.42	5.46	609			3330
320							5.50	5.30	603			3200
340							5.09	5.04	595			3000
360							4.98	4.73	610			2880
380							4.48	3.87	598			2320
400							3.26	3.00	563			1690
420							2.75	2.65	519			1380
440							2.55	1.98 ~~2.03~~	305			0 ~~620~~
455	.94						1.42 ~~1.51~~	.82 ~~1.12~~	202			170 ~~230~~
470	.30						.22 ~~.73~~	.11 ~~.36~~	105			10 ~~40~~
490		0	.2				0		11169			52 ~~240~~ 52350 *

Q = 47,000

.2 method $V_m = \frac{51,700}{11,200} = 4.62$

.2-.8 method $V_m = \frac{4.20}{6} = 4.72$

$\frac{V_{.2}-.8}{V_{.2}} = 0.909$

.99 = 52816 51,718

LEW

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