9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Meas # 224

Date Mar 29, 1943 **DISCHARGE MEASUREMENT NOTES**

Brazos River, at Richmond, Tex.

Vel at .2 depth

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
	Meas.	Comp.	by	Mid-Section	Method							
LEW 71		0							0			0
80			.2					0	41			0
90								2.22	86			190
100								3.40	169			580
115								3.84	270			1040
130								3.61	279			1010
145								3.68	242			890
160								4.41	232			1020
175								4.79	228			1090
190								4.90	216			1060
205								5.01	196			980
220								5.01	195			980
235								4.74	189			900
250								4.69	177			830
265								4.69	168			790
280								4.41	159			700
295								4.79	152			730
310								4.50	140			630
325								4.59	131			600
340								4.50	120			540
355				Q 2.8	15000			4.36	115			500
370								4.01	101			400
385								3.88	95			370
400			.2					3.12	87			270

No. 1 of 2 Sheets. Comp. by WHG Chk. by

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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
415		.6	.6					1.40	55			80
430								.61	58			40
445								.32	51			20
460								0	15			0
464			.6					0	0			0
LEW									3967			16240 / 3

Sta 415 - 464 made by 0.6 depth method, since this represents a small portion of total flow (about 1%) consider meas. as made by .2-.8 method

0.2 method mean vel = 16200 / 3970 = 4.08

.2-.8 method do = 16200 / 3970 = 4.08

$\frac{v_{.2-.8}}{v_{.2}} = \frac{3.78}{4.08} = 0.926$

Q = 15,000

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