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9-275
January 1935

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Meas. 174

Date 8-25-40, 19 ___ DISCHARGE MEASUREMENT NOTES

Brazos River, at Richmond, Tex.

90 •

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
52			.2				0	1.26	33			40
65							2.52	2.48	105			260
85							2.44	2.51	103			260
105							2.58	2.90	108			310
125							3.23	3.46	127			440
145							3.68	3.66	152			560
165							3.64	3.68	174			640
185							3.72	3.98	170			680
205							4.25	4.20	122			510
220							4.15	4.12	130			540
235							4.10	4.06	148			600
250							4.01	4.01	160			640
265							4.01	3.92	157			620
280							3.84	3.92	164			640
295							4.01	4.04	186			750
310							4.06	4.13	192			790
325							4.20	4.13	188			780
340							4.06	3.82	265			1010
360							3.57	3.23	301			970
380							2.89	2.54	235			600
400							2.20	1.10	45			50
412			.2				0		3265			11690

92 • 94 • 96 • 97 • 98 • 99 • 98 • 97 • 96 • 94 • 92 • 90 • 85 •

V_{2-8} = 3.33

V_2 = 11,700 / 3260 = 3.59

$\frac{V_{2-8}}{V_2} = \frac{3.33}{3.59} = .928$

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

75 • Q = 10,900