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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Meas. 186

Date 12-31-40, 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
477			.2				0	.15	54			10
460							.30	.67	180			120
440							1.04	1.17	259			300
420							1.30	1.90	337			640
400							2.49	2.84	397			1130
380							3.18	3.27	424			1390
360							3.36	3.74	419			1570
340							4.12	4.34	401			1740
320							4.55	4.90	414			2030
300							5.24	5.14	435			2240
280							5.03	5.16	471			2430
260							5.28	5.36	498			2680
240							5.45	5.38	514			2770
220							5.32	5.14	530			2720
200							4.96	4.96	542			2690
180							4.96	4.38	522			2290
160							3.80	3.65	496			1810
140							3.50	3.24	501			1620
120							2.97	3.04	444			1350
100							3.12	1.96	278			540
80							80	40	56			20
67			.2				0		8172			32090

V_{2-8} = 3.62

V_2 = 32100 / 8170 = 3.93 V_{2-8} / V_2 = 3.62 / 3.93 = .921

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