80 • 75 •

Meas. 182

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

9-275
January 1935

85 •

Date 12-5-40, 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
50						0	0	.96	15			10
60			.6				1.92	3.53	130			460
80			S				5.14	5.05	360			1820
100			S				4.96	4.69	600			2820
120			S				4.42	4.52	715			3230
140			.2				4.61	4.90	754			3700
160							5.18	5.28	806			4260
180							5.39	5.41	863			4670
200							5.43	5.26	828			4360
220							5.10	5.20	777			4040
240							5.30	5.08	766			3890
260							4.86	5.00	766			3830
280							5.14	4.82	762			3670
300							4.51	4.56	750			3420
320							4.61	4.61	742			3420
340							4.61	4.40	751			3300
360							4.18	3.64	767			2790
380							3.11	2.88	755			2180
400							2.65	2.42	720			1740
420							2.18	2.24	677			1520
440							2.30	1.76	475			840
460							1.23	.92	142			130
479			.2				.62		13,927			60,100

$V_{.2-8} = 56,600 / 13,900 = 4.07$ (9) $\qquad \frac{V_{.2-8}}{V_{.2}} = \frac{4.09}{4.32} = .942$ (8)

$V_{.2} = 60,100 / 13,900 = 4.32$

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

75 •

U. S. GOVERNMENT PRINTING OFFICE 6—7682