G.H. 19.00

9-275
May, 1916

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No.
Washington
Field
No. of Meas. 19

Date Jan. 10, 1932 DISCHARGE MEASUREMENT NOTES

Brazos River, at Richmond, Tex

Dist. from initial point	Depth	Depth of observation	Revolutions	Time in seconds	Velocity At point	Velocity Mean in vertical	Velocity Mean in section	Area	Mean depth	Width	Discharge
L.E.W. 460	0				0						
							1.28	88			113
440	8.8				2.57						
							2.68	255			683
420	16.7				2.80						
							3.16	386			1220
400	21.9				3.52						
							4.27	465			1986
380					5.02						
							5.22	496			2589.
360					5.42						
							5.89	506			2980.
340					6.36						
							6.03	508			3063.
320					5.70						
							5.78	506			2925.
300					5.85						
							5.90	504			2974.
280					5.95						
							5.60	501			2806.
260					5.24						
							5.26	495			2604.
240					5.28						
							5.30	488			2586.
Totals,											

.2 depth

No. 1 of 2 Sheets. Comp. by CEC Chk. by KLA

U. S. GOVERNMENT PRINTING OFFICE: 1929 6—7682

9-275
May, 1916

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No.
Washington
Field
No. of Meas. 19

Date Jan. 10, 1932 DISCHARGE MEASUREMENT NOTES

Brazos River, at Richmond, Tex

Dist. from initial point	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in vertical	VELOCITY Mean in section	Area	Mean depth	Width	Discharge
220					5.32						
							5.26	494			2598.
200					5.20						
							5.02	500			2510.
180					4.84						
							4.80	507			2434.
160		.2 depth			4.75						
							4.15	522			2166.
140					3.55						
							3.18	485			1542
120					2.80						
							2.56	340			870.
100					2.32						
							~~1.34~~ 1.45	81			~~113~~ 117
87		.6			~~.46~~ .58	.51					38766
								Wt. coeff.			99
											38400

$$\frac{38,400}{8,130} = 4.72 = V_{.2}$$

$$\frac{V_m}{V_{.2}} = \frac{4.18}{4.72} = 0.89$$

Q = 34,100

Totals,								8,127			38,762

No. 2 of 2 Sheets. Comp. by CCC Chk. by VLA

U. S. GOVERNMENT PRINTING OFFICE: 1920 6—7682