Meas 211

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 5-4-42, 19___ DISCHARGE MEASUREMENT NOTES

Brazos River, at Richmond, Tex.

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
60		0	.2				0	.16	52			10
70	.50					.62	.31	2.15	210			450
85							3.90	3.97	310			1230
100							4.04	4.20	252			1060
110							4.36	4.40	278			1220
120							4.45	4.54	287			1300
130							4.64	4.50	421			1890
145							4.36	4.84	400			1940
160							5.31	5.08	378			1920
175							4.84	4.90	368			1800
190							4.95	5.13	359			1840
205							5.31	5.08	353			1790
220							4.84	4.84	354			1710
235							4.84	4.69	359			1680
250							4.54	4.54	369			1680
265							4.54	4.59	384			1760
280							4.64	4.69	395			1850
295							4.74	4.60	401			1840
310							4.45	4.36	410			1780
325							4.28	4.20	412			1730
340							4.12	4.00	408			1630
355							3.88	3.55	418			1480
370							3.22	3.07	429			1320
385							2.92	2.66	424			1130
400			.2				2.39	2.13	403			860

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Date 5-4-42, 19 ___ DISCHARGE MEASUREMENT NOTES

Brazos River, at Richmond, Tex.

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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			.2				1.87	1.98	358			710
430							2.08	1.68	318			530
445							1.27	1.02	252			260
460							.77	.38	137			50
475							0	0	24			0
484			.2				0		9923			38,450
LEW												

$V_{.2} = 38400 / 9920 = 3.87$

$V_{.2-.8} = 3.71$

$\frac{V_{.2-.8}}{V_{.2}} = \frac{3.71}{3.87} = 0.959$

Q = 36,800

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