9-275 c
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

RECORDED

DISCHARGE MEASUREMENT NOTES

Meas. No. 136

Checked by [illegible]

Date 4/14/39

Brazos River at Richmond

Date April 10, 1939 Party Fry (M) Gaines (N)

Width 312 Area ~~885~~ 890 Vel. 1.15 G. H. 2.98 Disch. 1020

Method 2-.6-.8 No. secs. 22 G. H. change 0.00 in 1.2 hrs. Susp. Rod

Method coef. 1.00 Hor. angle coef. 1.00 Meter No. 1319 Susp. coef. 1.00

GAGE READINGS

Time		Recorder	Inside	Outside
11:00am	U.S.W.B.	Wire wt. gage		2.98
11:07	~~Start~~		2.98	3.06
12:40	Start	2.98		
1:50	Finish	2.98		
2:25 p.m.		2.98-	2.98-	3.02
	Finish			
~~Weighted~~ M. G. H.		2.98		
G. H. correction				
Correct M. G. H.				

Date rated Oct. 31, 1938 Used rating for rod Rod ~~susp.~~ Meter – ft. above bottom of wt. Tags checked –

Spin before meas. ok after ok

Meas. plots ____ % diff. from ____ rating

Wading, ~~cable, ice, boat, upstr., downstr.,~~ side ~~bridge~~ about 2 ~~feet~~, mile, ~~above~~, below gage, and at control

~~Chain~~, wire, found 58.57,

changed to no at –

Correct length 58.57

Levels obtained –

Measurement rated ~~excellent (2%)~~, good (5%), ~~fair (8%)~~, ~~poor (over 8%)~~, based on following conditions: Cross section Uniform

Flow smooth Weather Favorable

Other moderate downstr. wind.

Gage ok

Record removed yes Intake flushed no

Observer –

Control clean

Remarks Rate of change in stage 0.00ft/hour.

Sheet No. 1 of 5 sheets. G. H. of zero flow not determined ft.

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Date 4/10/39, 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
		start		12:40 pm								
REW 3		0					0					
								.04	3.85	.55	7	.2
10		1.1	.66	1	30		.09					
								.28	33.0	2.2	15	9.2
25		3.3	.7	10	44½	.51	.46					
			2.6	10	56½	.41						
								.86	49.5		15	42.5
40		3.3	.7	40	57	1.55	1.27					
			2.6	25	56	.99						
								1.16	49.5		15	57.4
55		3.3	.7	25	49	1.13	1.06					
			2.6	25	57	.98						
								1.03	50.2		15	51.8
70		3.4	.7	20	45	.99	1.00					
			2.7	20	44½	1.00						
								1.32	59.2		15	78.1
85		4.5	.9	30	39	1.70	1.64					
			3.6	30	42	1.58				splice in wading wire		
								1.63	61.6		14	100.0
100		4.3	.9	40	59	1.50	1.62					
			3.4	40	51	1.73						
								1.61	62.2		15	100.0
115		4.0	.8	40	51½	1.72	1.60					
			3.2	30	45	1.47			369.05			439.2

No. 2 of 5 Sheets. Comp. by W.H.G. Chk. by M.G.F.

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Date 4/10/39, 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
								1.52	62.2		15	94.6
130		4.3	.9	30	44	1.51	1.44					
			3.4	30	48	1.38						
								1.38	64.5		15	89.0
145		4.3	.9	30	47½	1.40	1.32					
			3.4	30	54	1.23						
								1.28	63.0		15	80.7
160		4.1	.8	30	53	1.25	1.25					
			3.3	30	53	1.25						
								1.22	53.2		15	64.9
175		3.0	.6	30	57	1.17	1.18					
			2.4	30	56½	1.18						
								1.10	45.0		15	49.5
190		3.0	.6	30	58	1.15	1.03					
			2.4	20	49	.91						
								1.04	45.0		15	46.8
205		3.0	.6	25	49½	1.12	1.06					
			2.4	20	45	.99						
								.99	44.2		15	43.8
220		2.9	.6	25	52	1.07	.92					
			2.3	20	58	.77						
								.92	39.8 ~~38.2~~		15	36.6 ~~35.2~~
235		2.4	.5	20	41	1.08	.92					
			1.9	20	58½	.77						
								.91	23.0		10	20.9

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Date 4/10/39, 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
245		2.2	.4	20	46½	.96	.90					
			1.8	20	53½	.84						
								.83	28.5		15	23.6
260		1.6	.3	20	59	.76	.76					
			1.3	20	58	.77						
								.70	21.0		15	14.7
275		1.2	.7	15	53½		.63					
								.52	16.5		15	8.6
290		1.0	.6	10	54½		.42					
								.44	12.0		15	5.3
305		.6	.36	10	48		.47					
								.36	3.3		11	1.2
316		0	V=½ S	305			.24					
LEW												
									~~884.65~~ 890.25			~~1018.0~~ 1016.0
				1:50 pm								

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9-275 d
(Sept., 1927)

UNITED STATES
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Date 4/10/39, 19..... No. of Meas.....

SUPPLEMENTARY DISCHARGE MEASUREMENT NOTES

Brazos River at Richmond, Tex

Enter on this form ample notes in regard to the following:

1. Accuracy of measurement; 2, gage; 3, observer; 4, bench marks; 5, gage-height corrections; 6, adjustments to total discharge; 7, station equipment; 8, channel, control, and point of zero flow; 9, rating, backwater; 10, diversions, regulation; 11, records; 12, cooperation.

Recorder inspection

Pencil 2B Turq. : Record clear

Wt. Adj. left as found : Chart time 1h F

Paper dry : Clock Reg. no

Well clean

No. 5 of 5 sheets

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