9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 277
Checked by CRG
Date 2/18/46

Brazos River at Richmond, Tex.

Date Jan. 21, 1946 Party Gaines and Fry
Width 387 Area 3.560 Vel. 2.00 G. H. ____ Disch. 7,130
Method 2-8 No. secs. 22 G. H. change -0.04 in 0.8 hrs. Susp. 506.9
Method coef. 1.00 Hor. angle coef. As Noted Meter No. 1791 Susp. coef. 1.00

GAGE READINGS				
Time		Recorder	~~Inside~~ Tape	Outside
9:25 a.m.		8.92	8.92	8.99 ± 0.05
2:30 p.m.	Start	8.81	8.81	8.80 ± 0.05
4:10		8.78	8.78	
4:30	Start		(8.77)	
5:20	Finish		(8.73)	
5:40 p.m.			8.72	8.70 ± 0.05
	Finish	U.S.W.B.	w-w	
9:20 a.m.				8.92
~~Weighted~~ M. G. H.			8.75	
G. H. correction				
Correct M. G. H.				

Date rated June 1, 1943 Used rating
for rod Rod susp. Meter 0.9 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 270 feet, ~~mile, above~~, below
gage, and —
Chain, wire, found 58.59,
changed to no at
Correct length 58.57
Levels obtained no

Measurement rated ~~excellent (2%)~~, good (5%), fair (8%), ~~poor (over 8%)~~, based on following conditions: Cross section Uniform
Flow Smooth Weather Favorable
Other —
Gage ok
Record removed No Intake flushed No
Observer —
Control Channel
Remarks See levels of this date for slope data.

RATE OF CHANGE IN STAGE: -0.04 ft./HR.

Sheet No. 1 of 3 sheets. G. H. of zero flow ____ ft.

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9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 1/31/46, 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	Corr. Area	Mean depth Area	Width	Discharge
		50 C.9		WR 1791								
458		0						0	0		4	0
450		2.5	1.5	10	50			.47	29		11½	14
435	99	4.0	2.4	15	48			.73	59	60²	15	43
420	98	4.1	2.5	20	47			.98	71	72	17½	70
400	98	3.9	2.4	30	51			1.36	76	78²	20	103
380	98	5.5	1.1	30	43	1.61		1.48	108	110	20	160
			4.4	25	43	1.34						
360	98	6.7	1.3	40	48	1.92		1.60	131	134	20	210
			5.4	25	45	1.28						
340	98	7.8	1.6	50	50	2.30		2.02	153	156	20	309
			6.2	40	53	1.74						
320	99	9.0	1.8	50	47	2.44		2.12	178	180	20	377
			7.2	40	51	1.81						
300	98	10.0	2.0	50	48	2.39		2.20	196	200	20	431
			8.0	40	46	2.00						
280	98	10.6	2.1	50	45	2.55		2.30	208	212	20	479
			8.5	40	45	2.05						
260	98	11.0	2.2	50	41	2.80		2.50	216	220	20	540
			8.8	40	42	2.19						

No. 2 of 3 Sheets. Comp. by WHG Chk. by CRG

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9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 1/31/46, 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	Corr. Area	Mean depth Area	Width	Discharge
240	98	11.5	2.3	50	42	2.73		2.62	225	230	20	590
			8.2	50	46	2.50						
220	98	12.0	2.4	50	42	2.73		2.41	235	240	20	566
			9.6	40	44	2.09						
200	99	12.6	2.5	50	44	2.61		2.40	249	252	20	598
			10.1	40	42	2.19						
180	⊥	12.9	2.6	50	49	2.35		2.22	258		20	573
			10.3	40	44	2.09						
160	⊥	13.5	2.7	50	49	2.35		2.30	270		20	621
			10.8	40	41	2.24						
140	⊥	12.7	2.5	30	42	1.65		1.71	254		20	434
			10.2	40	52	1.77						
120	⊥	15.5	3.1	30	41	1.69		1.68	271		17½	440
			12.4	30	45	1.54						
105	⊥	15.1	3.0	40	43	2.14		1.90	188		12½	357
			12.1	30	42	1.65	.379					
95		11.0	2.2	30	46	1.50		1.40	110		10	154
			8.8	25	44	1.31						
85	⊥	6.3	1.3	20	44	1.05		.99	63		10	62
			5.0	20	50	.93						
75		2.0	1.1	5	53			.23	14		7	3
71		0						0	0		2	0
REW									356			7184

Gage pier 260 ft above

No. 3 of 3 Sheets. Comp. by WHG Chk. by CRG

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