9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Meas. No. 281
Checked by MAF
Date 8-7-46

DISCHARGE MEASUREMENT NOTES

Brazos River at Richmond Tex.

Date Feb. 25, 1946 Party W.H. Gaines

Width 405 Area 5900 Vel. 3.12 G. H. ____ Disch. 18400

Method 2-8 No. secs. 23 G. H. change -0.06 in 1.1 hrs. Susp. 100C1.0

Method coef. 1.00 Hor. angle coef. As Noted Meter No. 1791 Susp. coef. 1.00

GAGE READINGS — Tape

Time		Recorder	Inside	Outside
2:40 p.m.		13.57	13.57	13.60±
3:05	Start		(13.55)	.005
4:10	Finish		(13.49)	
4:40 p.m.		13.47	13.47	13.50±
				.005
	Finish			
~~Weighted~~ M. G. H.			13.52	
G. H. correction				
Correct M. G. H.				

Date rated June 4 1943 Used rating for rod Rod susp. Meter 1.0 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 not read, changed to — at ____

Correct length —

Levels obtained —

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

Flow Smooth Weather ____

Other Moderate to strong upstr. wind

Gage ok

Record removed No Intake flushed No

Observer —

Control channel

Remarks —

RATE OF CHANGE IN STAGE: -0.05 ft./HR.

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

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80 • 75 •

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 2/25/46, 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
	100	c1.0		WR 1791			Mod.	1.5	Strong. upstr.		wind.	
LEW 467		0						0	0		3½	0
460	⊥	4.2	.8	10	45	.52		.32	67		16	20
			3.2	3	69	.11						
435	⊥	10.2	2.0	25	42	1.37		1.39	255		25	350
			8.2	25	41	1.41						
410	99	11.5	2.3	50	47	2.44		2.26	284	287	25	640
			9.2	40	44	2.09						
385	99	14.2	2.8	50	41	2.80		2.55	348 51	358 6	25	890 400
			11.4	50	50	2.39						
360	99	13.1	2.6	80	51	3.59		3.23	325	328	25	1050
			10.5	60	48	2.87	.16					
335	99	13.5	2.7	80	46	3.98		3.56	334	337	25	1190
			10.8	60	44	3.13						
310	99	15.5	3.1	80	46	3.98		3.70	345	348	22½	1280
			12.4	60	40	3.43	.141					
290	99	15.1	3.0	80	44	4.16		3.88	299	302	20	1160
			12.1	80	51	3.59	.175					
270	99	16.1	3.2	80	46	3.98		3.60	319	322	20	1150
			12.9	80	57	3.22	.160					
250	99	16.9	3.4	80	42	4.35		3.90	335	338	20	1310
			13.5	80	53	3.46	.181					
230	⊥	17.4	3.5	80	44	4.16		3.84	348		20	1340
			13.9	80	52	3.52	.161					

No. 2 of 3 Sheets. Comp. by W.H.G. Chk. by MAF

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75 •

80 • 75 •

9-275
January 1935

85 •

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 2/25/46, 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	Mean in section	Corr. Area	Mean depth Area	Width	Discharge
94 • 210	⊥	17.4	3.5	80	42	4.35		3.70	348		20	1290
			13.9	80	60	3.06	.741					
96 • 97 • 190	⊥	17.5	3.5	80	46	3.98		3.75	350		20	1310
98 •			14.0	80	52	3.52						
99 • 170	⊥	18.1	3.6	80	45	4.07		3.60	362		20	1300
			14.5	60	44	3.13						
150		18.5	3.7	60	42	3.27		3.20	370		20	1180
			14.8	60	44	3.13						
130		19.8	4.0	50	41	2.80		2.50	396		20	990
			15.8	40	42	2.19						
99 • 110	⊥	21.8	4.4	50	42	2.73		2.67	327		15	870
			17.4	50	44	2.61						
98 • 100		19.4	3.9	60	47	2.93		2.54	194		10	490
97 •			15.5	40	43	2.14						
96 • 90		15.1	3.0	50	40	2.87		2.56	151		10	390
94 •			12.1	40	41	2.24						
92 • 80		9.3	1.9	30	42	1.65		1.67	93		10	160
			7.4	30	41	1.69						
90 • 70		5.1	1.0	7	41	.40		.41	46		9	20
			4.1	15	66	.53						
62 REW		0						0	0		4	0
85 • 110 ft/m												
									589		405	18380
467 62 405												
80 •												

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