RECORDED

9-275 c
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Water temp. 89

Air temp. 82 °F

Time 6:00 p.m.

(C) Meas. No. 393

Checked by B.T.C.

Date 11-5-52

DISCHARGE MEASUREMENT NOTES

Brazos River at Richmond, Tex.

Date July 31, 1952 Party RL Smith

Width 71 Area 87.0 Vel. 2.10 G. H. 0.18 Disch. 173.4

Method .6/2.8 No. secs. 24 G. H. change 0.00 in 1.7 hrs. Susp. Rod

Method coef. 1.00 Hor. angle coef. 1.10 Meter No. 2830 Susp. coef. 1.00

GAGE READINGS

Time		~~Recorder~~	~~Inside~~	Outside
		Tape	Recorder	
1:30	~~Start~~		0.17	
1:05		0.17	—	0.18
3:20	(S)	(.17)	0.18	
5:00	(F)	(.16)	0.17	
6:00 p.m.		0.16	0.17	0.17
1:15 p.m.	Finish	w.wt. at 0.17		
6:00 p.m.		w.wt. at 0.16		
~~Weighted~~ M. G. H.		~~.16~~	0.18	
G. H. correction				
Correct M. G. H.				

Date rated 3/22/49 Used rating for 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~~ 2 ~~feet~~, mile, ~~above~~, below gage, ~~and~~ ____

~~Chain~~, wire, found 58.68, changed to — at —

Correct length 58.68

Levels obtained —

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

Flow — Weather raining

Other 1st meas. this date.

Gage —

Record removed No Intake flushed No

Observer states that w.wt. gage has been busted into

~~Control~~ Dragline digging sand out of river 2 mi downstream

Remarks clock stopped on recorder removed clock 251883 cleaned 1/30/51 Installed clock 506684 cleaned 10/2/51

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

U. S. GOVERNMENT PRINTING OFFICE 6—7440

80 75

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

9-275
January 1935

85

Date 7/31, 1952 DISCHARGE MEASUREMENT NOTES

90 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
2	R.E.W.			3:20	p.m.						~~2~~ 1	0
10		.6	.36	30	40			1.67	1.2		2	2.0
12		.8	.48	40	46			1.93	1.6		2	3.1
14		1.0	.60	40	50			1.78	2.0		2	3.6
16		1.1	.66	40	40			2.22	2.2		2	4.9
18		1.4	.84	40	40			2.22	2.8		2	6.2
20		1.6	.32	40	45	1.97		1.~~68~~ 70	4.0		2½	6.~~7~~ 8
			1.28	30	47	1.42						
23		2.0	.4	40	44	2.02		1.57	6.0		3	~~8.6~~ 9.4
			1.6	20	40	1.12						
26		2.1	.42	40	45	1.97		1.82	6.3		3	~~14.0~~ 11.5
			1.68	30	40	1.67						
29		2.6	.52	50	47	2.35	~~1.4~~	2.14	7.8		3	16.7
			2.08	40	46	1.93						
32		2.7	.54	50	46	2.40		2.03 4	8.1		3	16.~~4~~ 5
			2.16	30	40	1.67						
35		2.8	.56	50	44	2.51		2.33 4	8.4		3	19.~~6~~ 7
			2.24	40	41	2.16						

No. 2 of 3 Sheets. Comp. by BLS Chk. by

75

U. S. GOVERNMENT PRINTING OFFICE 16—26076-1

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 7/31, 1952 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
38		2.8	.56	50	46	2.40		2.18	7.0		2½	15.~~2~~ 3
			2.24	40	45	1.97						
40		2.4	.48	40	40	2.22		2.22	6.0		2½	13.3
			1.92	40	40	2.22						
43		1.8	.36	40	46	1.93		1.74	5.4		3	9.4
			1.44	30	43	1.55						
46		1.1	.66	40	44	2.02		2.02	3.8~~6~~ 3		3½	7.8
50		.7 ~~.6~~	.42 ~~.36~~	40	44	2.02		2.02	2.8		4	5.~~6~~ 7
54		.6	.36	50	48	2.31		2.31	2.4		4	5.5
58		.6	.36	30	42	1.59		1.59	2.4		4	3.8
62		.5	.30	40	40	2.22		2.22	2.0		4	4.4
66		.4	.24 ~~.16~~	40	45	1.97		1.97	1.6		4	3.2
70		.4		40	46	1.93		1.93	1.~~6~~ 8		4½	3.~~1~~ 5
75		.3		15	40	.85		.85	1.~~2~~ 4		4½	1.~~0~~ 2
79		OLEW		5:00 p.m.							2	173.~~0~~ 5
									~~86.7~~ 87.0		~~71~~	

No. 3 of 3 Sheets. Comp. by RLS Chk. by