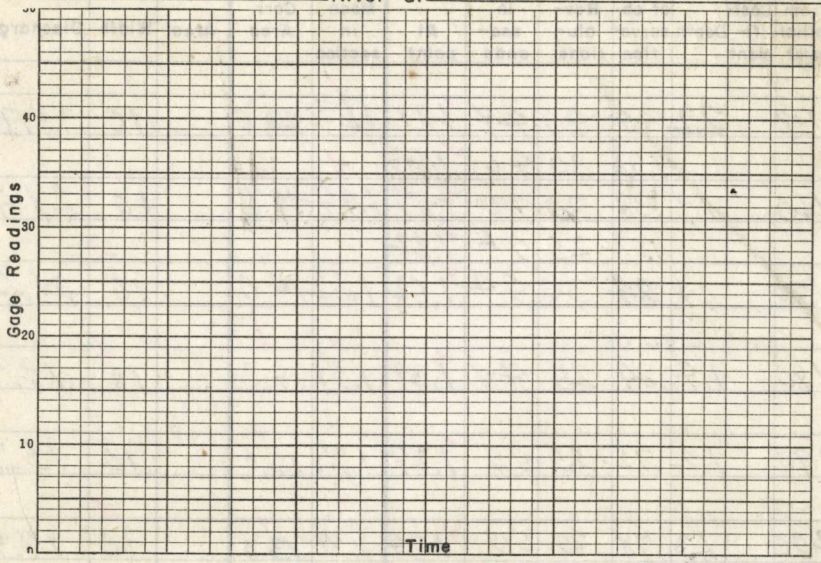
River at



Page ____ of ____

RECORDED

A-34

Water temp. 82 °F

Air temp. 86 °F

Time 8:30 a.m.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 398

Checked by SHH

Date 9-2-52

Brazos River at Richmond, Tex.

Date Aug. 28, 1952 Party RL Smith

Width 274 Area 449 Vel. 1.86 G.H. ____ Disch. 837 3

Method .6 2/8 No. Secs. 28 G.H. Chng. -.01 ft. per hr. Time meas. 1.2 hrs.

Meter No. 2830 Date Rated 3/22/49 Susp. rod Susp. Coef. 1.00

Method Coef. 1.00 Hor. angle Coef. 1.00 Used rating for, rod — Susp.

GAGE READINGS

Time	Meas	Recorder	Tape	Inside	Outside
5:30 am			1.52	—	1.53
6:30		(S)	(1.52)		
7:45		(F)	(1.51)		
8:35			1.51	—	1.51
5:25 a.m. w.wt				—	1.53
8:30 a.m. w.wt				→	1.53
~~Weighted~~ MGH			1.52		
GH Corr.					
Correct MGH					

Meter — ft. above bottom of weight

Spin before meas. ok after ok

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

Chain, wire, found 58.69 at ____ G-Sta.

Changed to — at —

Correct length 58.68

Levels Obtained —

Measurement rated, excellent (2%), good (5%) fair (8%), poor (over 8%) based on following

Cross section even

Flow smooth

Weather Beautiful

Other

Gage ok

Record removed yes Intakes flushed No

Pencil 4B Wt. Adj. No Paper dry

Record clear Chart time 5½ H Fast Clock Reg. No

Observer sleeping

Control —

Remarks Installed clock #370602 Cl. 3/9/51
Removed clock #506684 Cl. 10/2/51

Page 1 of 3

G.H. of zero flow ____ ft.

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 section	Corr. Area	Area	Width	Discharge
2		0	6	30	9 AM	REW		0		4	
10		.7	.54	25	40		1.39	6.3		9	8.7
20		1.4	.84	30	40		1.67	14.0		10	23.4
30		2.0	.4	40	44	2.02	1.77	20.0		10	35.4
			1.6	30	44	1.52					
40		2.6	.52	40	44	2.02	1.84	26.0		10	48.0
			2.28	30	40	1.67					
50		2.8	.56	50	42	1.63	1.82	28.0		10	51.0
			2.24	20	45	1.99					
60		1.8	.36	50	45	2.46	2.22	18.0		10	40.0
			1.44	40	45	1.97					
70		1.7	.34	50	44	2.51	2.24	17.0		10	38.0
			1.36	40	45	1.97					
80		1.8	.36	50	45	2.46	2.12	18.0		10	38.2
			1.44	40	50	1.78					
90		2.3	.46	50	43	2.57	2.27	23.0		10	52.2
			1.84	40	45	1.97					
100		2.5	.5	50	47	2.35	2.28	25.0		10	57.0
			2.0	40	40	2.22					
110		2.5	.5	50	47	2.35 ~~2.69~~	2.28 ~~2.46~~	25.0		10	57.0 ~~61.5~~
			2.0	40	40	2.22					
120		2.7	.54	50	43	2.57	2.40	27.0		10	65.0
			2.16	40	40	2.22					
130		2.6	.52	50	48	2.31	2.08	26.0		10	54.0
			2.08	40	48	1.85					
140		2.4	.48	40	40	2.22	1.94	24.0		10	46.6
			1.92	30	40	1.67					
											618.8

Page 2 of 3 Comp. by: RLS Checked by: _____

Dist. from initial point	Angle Coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in section	Corr. Area	Area	Width	Discharge
150		2.2	.44	40	49	1.81	1.63	22.0		10	35.9
			1.76	30	46	1.45					
160		1.9	.38	30	40	1.67	1.44	19.0		10	27.4
			1.52	25	46	1.22					
170		1.4	.84	30	44	1.52	1.52	14.0		10	21.3
180		1.4	.84	25	40	1.39	1.39	14.0		10	19.4
190		1.2	.72	25	44	1.27	1.27	12.0		10	15.3
200		1.3	.78	30	50	1.34	1.34	13.0		10	17.4
210		1.3	.78	30	50	1.34	1.34	13.0		10	17.4
220		1.4	.84	30	48	1.39	1.39	14.0		10	19.5
230		1.3	.78	25	43	1.30	1.30	13.0		10	16.9
240		1.2	.72	25	44	1.27	1.27	12.0		10	15.3
250		.5	.09	7	40	.41	.41	2.2		5	9.2
270		.3	.18	20	50	.90	.90	3.9		13	3.5
276		0	LEW		7:45 a.m			0		3	0
								449.9		274	837.30

Page 3 of 3 Comp. by: RLS Checked by: _____