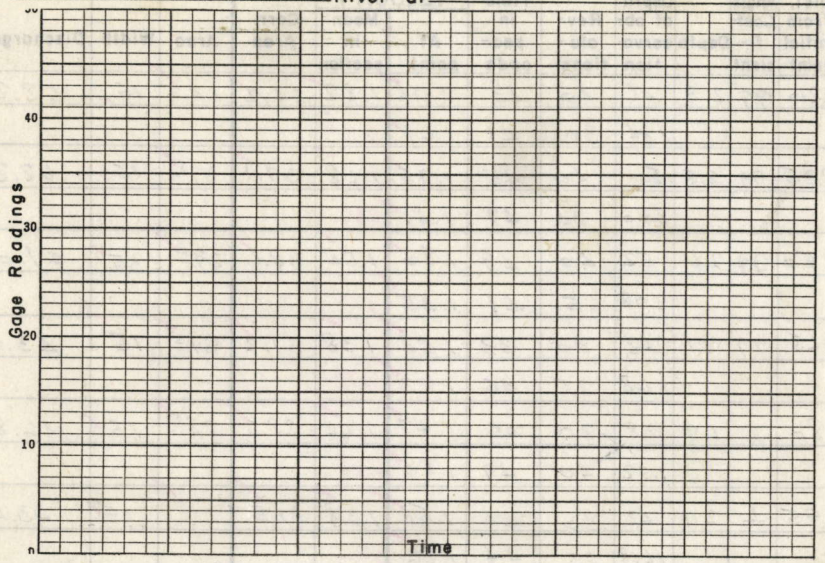
River at



Page ____ of ____

A-34 RECORDED

Water temp. 88 °F

Air temp. 95 °F log in the sun.

Time 4 p.m.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 346

Checked by JRB

Date 9-23-49

Brazos River at Richmond Tex.

Date Aug. 29, 1949 Party Wheeler and Goines

Width 340 Area 726 Vel. 1.53 G.H. ____ Disch. 1,110

Method 2-8 No. Secs. 25 G.H. Chng. -0.01 ft. per hr. Time meas. 0.9 hrs.

Meter No. 2471 Date Rated 1-21-46 Susp. Rod Susp. Coef. 1.00

Method Coef. 1.00 Hor. angle Coef. As noted Used rating for, rod Rod Susp.

GAGE READINGS

Time	Meas	Recorder	Tape	Inside	Outside
2:25 p.m.			w-wt. →		2.39
2:35			2.35	— *	2.36
2:55			2.35		
3:45	start		(2.34)		
4:40	Finish		(2.33)		
5:25 p.m.			2.32		2.25±
			w-wt.		
* 0.6 staff					
Weighted MGH			2.34		
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 near control

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

Changed to no at ____

Correct length 58.68

Levels Obtained —

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

Cross section fairly uniform

Flow Smooth Weather Hot

Other —

Gage ok

Record removed Yes Intakes flushed —

Pencil Turq 3B Wt. Adj. no Paper dry

Record clear Chart time 3h F* Clock Reg. no

Observer ____ *set 2h F 7/28/49

Control gravel bars, clean, 2 miles downstr.

Remarks Well is clean. Installed min. stage indicator on float-tape.

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
3'45"											
REW 3		0					0	0		3 1/2	0
10		1.2	V=	0			0	13.2		11	0
25	.90	2.2	.44	10	49	.47	.51	29.7	33°	15	15.2
			1.76	10	41	55	2				
40	⊥	2.0	.40	25	46	1.20	1.13	30.0		15	33.9
			1.60	20	42	1.06					
55	⊥	2.3	.46	30	46	1.44	1.28	34.5		15	44.1
			1.84	25	50	1.11					
70		2.0	.40	30	40	1.65	1.56	30.0		15	46.8
			7.60	30	45	1.47	1.2				
85		3.0	.60	40	49	1.80	1.49	45.0		15	67.0
			2.40	25	47	1.18	5				
100	⊥	3.3	.66	40	46	1.91	1.74	49.5		15	86.1
			2.64	30	42	1.58	1.5				
115	⊥	4.1	.82	30	40	1.65	1.52	61.5		15	93.5
			3.3	30	48	1.38	10				
130		1.7	.34	40	43	2.04	1.71	25.5		15	43.6
			1.36	25	40	1.38	12				
145	⊥	1.9	.38	40	43	2.04	1.77	28.5		15	50.4
			1.52	30	44	1.50					
160	⊥	1.8	.36	50	48	2.29	2.06	27.0		15	55.7
			1.44	40	48	1.83	412				
175		1.6	.32	50	46	2.38	2.19	24.0		15	52.5
			1.28	40	44	2.00					
190		2.1	.42	50	48	2.29	2.08	31.5		15	63.8
			1.68	40	51	1.73	392				
205		2.3	.46	50	50	2.20	1.80	34.5		15	62.0
			1.84	30	47	1.41	301				

Page 2 of 3 Comp. by: W.H.G. Checked by: JRB

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
220	99	2.3	.46	40	43	2.04	1.82	34.2	34.5	15	62.2
			1.84	30	41	1.61	365				
235	99	2.5	.50	40	45	1.95	1.68	37.1	37.5	15	62.2
			2.00	30	47	1.41	336				
250	99	2.6	.52	40	49	1.80	1.58	38.6	39°	15	61.0
			2.08	25	41	1.35	315				
265	99	2.1	.42	30	43	1.54	1.38	31.2	31.5	15	43.0
			1.68	25	45	1.23	277				
280	⊥	1.9	.38	30	45	1.47	1.64	28.5	28.5	15	46.8
			1.52	40	49	1.80	327				
295	⊥	2.1	.42	30	44	1.50	1.38	31.5	31.5	15	43.4
			16.8	25	44	1.26	270				
310	⊥	1.7	.34	30	41	1.61	1.45	25.5		15	37.0
			1.36	25	43	1.29	250				
325		1.8	.36	30	44	1.50	1.36	27.0		15	36.7
			1.44	25	45	1.23	273				
340		.9	.54	20	44		1.01	8.1		9	8.2
343		0					0	0		1 1/2	0
LEW											
2:40 pm								726		340	1,114.9

Page 3 of 3 Comp. by: WHG Checked by: JRB