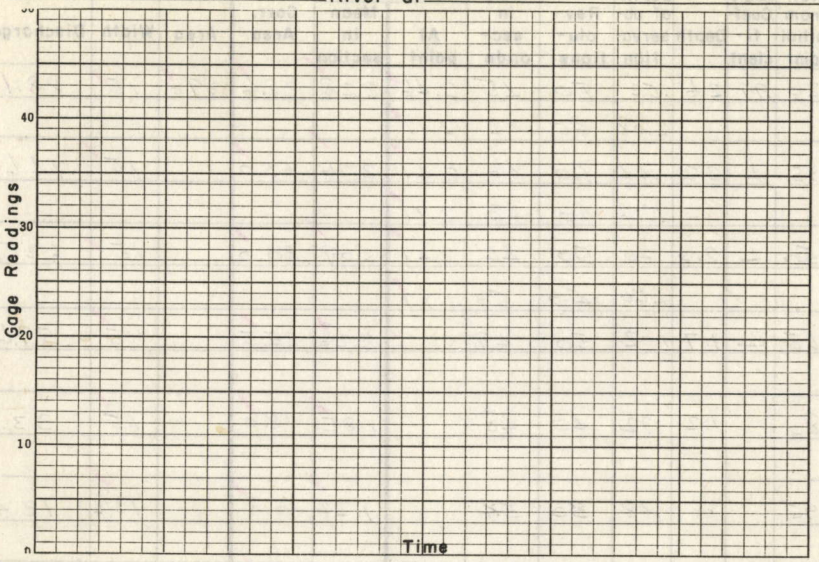
River at



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RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 328

Checked by JRB

Date 9/20/48

Brazos River at Richmond, Tex.

Date Sept. 14, 19 48 Party Ball and Goines

Width 306 Area 530 Vel. 2.17 G.H. ____ Disch. 1,150

Method 2-8 No. Secs. 22 G. H. Chng. 0.00 ft. per hr. Time meas. 8 hrs.

Meter No. 1828 Date Rated 6-13-45 Susp. Rod Susp. Coef. 1.00

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

GAGE READINGS

Time	Meas	Recorder	Tape	Inside	Outside
				w-wt 7	
8:45	a.m.			O.G. 7	2.47±
8:55			2.46	—	2.48±
9:25			2.47	—	—
10:25	Start				
11:15	Finish				
12:00	M.		2.47		2.48
				O.G. 7	
~~Weighted~~ MGH			2.47		
GH Corr.					
Correct MGH					

Meter — ft. above bottom of weight

Spin before meas. ok after ok

Wading, ~~cable, ice, boat, upstr., downstr., side bridge~~ 0.02 2 ~~feet~~, mile, ~~above~~, below gage, and near control.

Chain, wire, found 58.62 at — G-Sta.

Changed to no at —

Correct length 58.62

Levels Obtained no

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

Cross section Uniform

Flow Smooth Weather Favorable

Other —

Gage ok

Record removed Yes Intakes flushed —

Pencil Turq. 3B Wt. Adj. no Paper dry

Record clear Chart time 1½ F Clock Reg. Clock changed

Observer

Control Clean gravel bar

Remarks Found & removed drift mark on I.G. at 6.96
Removed interch. clock No 370556 for periodic cleaning
Installed interch. clock No 535449, now 1-28-48
Left a bottle of ink in gage house.

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
REW		10:25 a.m.									
1		0					0	0		4½	0
10	.4	.24	V=	0			0	4.8		12	0
		Depth									
25	1.0	.60	2.0	44			1.07	15.0		15	15.2
40	1.4	.84	30	43			1.55	21.0		15	32.0
		Depth									
55	.97	1.7	1.08	40	45		1.97	24.8	25.5	15	48.8
70	.98	1.7	1.02	40	41		2.16	25.0	25.5	15	54.0
85	.98	1.8	1.08	50	47		2.36	26.5	27.0	15	62.5
100	.98	1.9	1.14	50	43		2.57	28.0	28.5	15	72.0
115	.98	1.9	1.14	50	41		2.70	28.0	28.5	15	75.5
130	.96	2.0	.4	60	45	2.95	2.46	28.8	30.0	15	70.9
			1.6	40	45	1.97					
145	.97	1.7	1.02	50	46		2.41	24.8	25.5	15	59.8
160	.98 ~~.85~~	2.3	.46	50	42	2.63	2.37	33.8 ~~29.3~~	34.5	15	80.2 ~~69.4~~
			1.84	40	42	2.11					
175	.98 ~~.85~~	2.6	.52	50	44	2.51	2.26	38.2	39.0	15	86.3
			2.08	40	44	2.01					
190	.98	2.5	.50	50	45	2.46	2.24	36.7	37.5	15	82.2
			2.00	40	44	2.01					
205	.98	2.6	.52	50	46	2.41	2.24	38.2	39.0	15	86.6
			2.08	40	43	2.06					

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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	2.6	.52	50	45	2.46	2.28	38.6	39.0	15	88.1
			2.08	40	42	2.11					
235	⊥	2.2	.44	50	46	2.41	2.26	33.0		15	74.6
			1.76	40	42	2.11					
250	⊥	2.0	.40	50	46	2.41	2.09	30.0		15	62.7
			1.60	40	50	1.77					
265	⊥	1.7	1.02	50	49		2.26	25.5		15	57.6
280		1.2	.72	40	48		1.85	18.0		15	33.3
295		.8	.48	30	54		1.24	10.8		13½	13.4
307		0					0	0		6	0
LEW											
11:15											
307 − 1 = 306								529.5		306	1154.7
307 − 1 = 306											

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