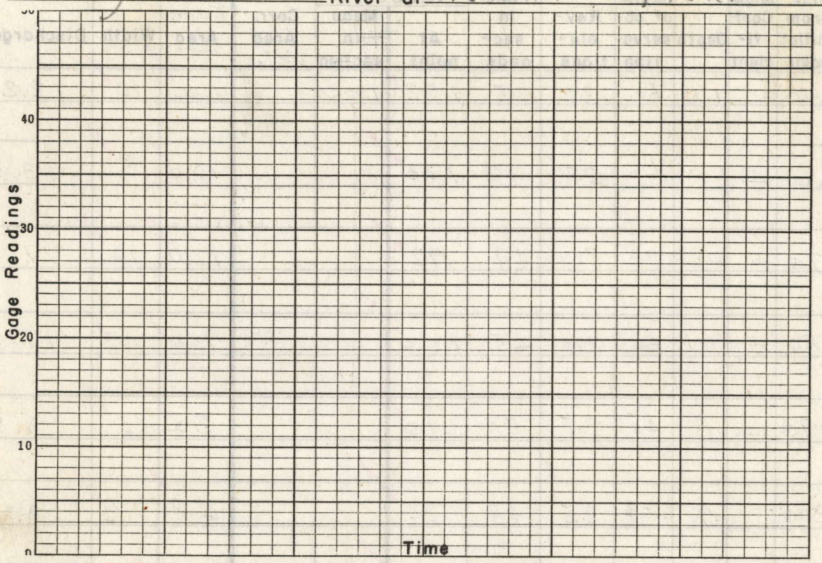
Brazos River at Richmond, Tex.



U.S.W.B. w. wt gage is over a sand bar and should be moved at least 30 ft. to right

Replace O.G. 0.0-3.3, backing is ok

No outside gage readings for this meas. Staff gage is gone below 2.5 ft. and w-wt is over a sand bar. Cone in well is clean.

H. J. Hall painted lower section of well, platform and lower braces, replaced hinges on cleanout door. Work was done July 21, 1948

A-34

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECORDED

Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 326

Checked by FS

Date 9/19/48

Brazos River at Richmond, Tex.

Date Aug. 17, 1948 Party W. H. Goines

Width 207 Area 268 Vel. 1.40 G.H. ____ Disch. 376

Method 2-8 No. Secs. 23 G. H. Chng. 0.00 ft. per hr. Time meas. 0.6 hrs.

Meter No. 1153 Date Rated 11-16-44 Susp. Rod Susp. Coef. 1.00

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

GAGE READINGS					
Time	Meas	Recorder	Tape	Inside	Outside
7:50 a.m.			1.22		—
8:00			1.22		—
9:07	Start				
9:40	Finish				
10:20	a.m.		1.22		—
Weighted MGH			1.22		—
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 400 ft. below control

Chain, wire, found — at ____ G-Sta.

Changed to — at ____

Correct length —

Levels Obtained —

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

Cross section Uniform

Flow Smooth Weather Hot

Other

Gage See page 4

Record removed N Intakes flushed

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

Record clear Chart time 1½ F Clock Reg. no

Observer —

Control Gravel bar about 200 ft. width of water, max. depth 1.3 ft.

Remarks Clock 370556 was cleaned 7-23-46, change next visit

G. H. of zero flow 1.22 - 1.3 = -0.08 ± 0.3 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~~ * Vel. Coeff.	Corr. ~~Area~~ Vel.	Corr Area	Width	Discharge
REW		9:07 a.m.									
2		0						0	0	4	0
10		.1	V=	0				0	0.9	9	0
20		.3	.18	10	58	.40	1.03±	.41	3.0	10	1.2
30	⊥	.6	.36	15	46	.74	1.00	.74	6.0	10	4.4
40		.8	.48	25	48	1.17	1.00	1.17	8.0	10	9.4
50	⊥	1.1	.66	25	47	1.19	1.00	1.19	11.0	10	13.1
60	.99	1.4	.84	30	49	1.37	1.00	1.37	13.9 ~~14.0~~	10	19.0
70	.99	1.8	1.08	40	55	1.62	1.00	1.62	17.8 ~~18.0~~	10	28.8
80	.99	2.2	.44	40	46	1.93		1.66	21.8 ~~22.0~~	10	36.2
			1.76	30	48	1.39					
90	.99	2.3	.46	40	43	2.06		1.84	22.8 ~~23.0~~	10	42.0
			1.84	30	41	1.63					
100	.99	2.8	.56	40	43	2.06		2.00	27.7 ~~28.0~~	10	55.4
			2.24	40	46	1.93					
110	⊥	2.8	.56	40	53	1.68		1.51	28.0	10	42.2
			2.24	30	50	1.34					
120	⊥	2.0	.40	30	48	1.39		1.30	20.0	10	26.0
			1.60	25	46	1.22					
130	⊥	1.4	.84	25	46	1.22	1.00	1.22	14.0	10	17.1
140	⊥	1.0	.60	25	47	1.19	1.00	1.19	10.0	10	11.9

 Comp. by: W.H.G. 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~~ Vel.	Corr. Area	Width	Discharge
150		1.0	.60	30	55	1.22	1.00		10.0	10	12.2
160	⊥	1.0	.60	25	42	1.33			10.0	10	13.3
170	⊥	1.2	.72	20	49	.92			12.0	10	11.0
180	⊥	1.1	.66	20	45	1.00			11.0	10	11.0
190	⊥	.8	.48	25	51	1.10			8.0	10	8.8
200		.9	.54	25	45	1.24			6.8	7½	8.4
205		1.1	.66	20	48	.94	1.00		5.0	4½	4.7
209 LEW		0					0	0	0	2	0
9:40 a.m.									267.7	207	376.1

400' upstr. from meas. sect. gravel bed "0" Fl. = g. ht. − 1.3± 0.3

* Vel. coeff. for shallow depths from WR Bulletin Aug. 10, 1945.

 Comp. by: WHG Checked by: