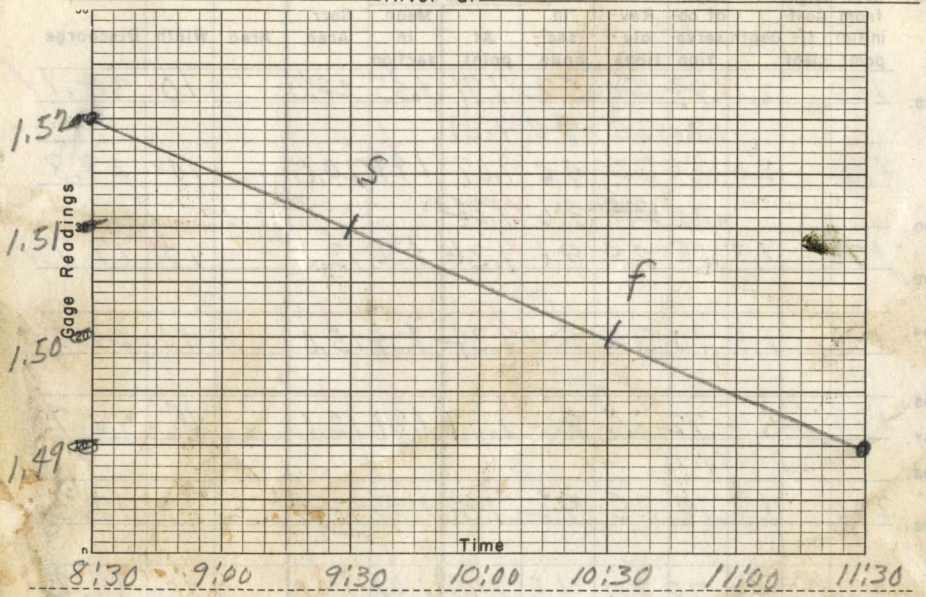
River at



Page ____ of ____

RECORDED

A-34

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Air 92°F
Water 85°F
Time 10:30 am

Meas. No. 401
Checked by
Date 9-27-52

Brazos River at Richmond, Tex.

Date Sept 17, 1952 Party R. L. Smith
Width 268 Area 457 Vel. 1.85 G.H. ____ Disch. ~~839~~ 855
Method 6-pt 2/3 No. Secs. 28 G.H. Chng. -.01 ft. per hr. Time meas. 1.0 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
8:20 am			1.52		1.53
8:30 am			1.52		
9:30 am (S)			(1.51)		
10:30 am (F)			(1.50)		
11:30 am			1.49		1.50
8:00 am		w.wt.		—	1.52
11:00 am		w.wt.		—	1.49
~~Weighted~~ MGH			1.50		
GH Corr.					
Correct MGH					

Meter — ft. above bottom of weight
Spin before meas. ok after ok
Wading, ~~cable, ice, boat, upstr., downstr., side~~ bridge 1/4 ~~feet~~, mile, ~~above~~, below gage, and —
Chain, wire, found 58.68 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 wet m
Other
Gage
Record removed yes Intakes flushed No
Pencil Turq 4B Wt. Adj. No Paper dry
Record Clear Chart time ok Clock Reg. No
Observer —
Control —
Remarks —

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	REW			9:30 am		0		4	0
10		.9	.54	30	40		1.67	8.1		9	13.5
20		1.4	.84	40	51		1.74	14.0		10	24.4
30		2.2	.44	40	41	2.16	2.02	22.0		10	44.5
			1.76	40	47	1.89					
40		2.8	.56	40	42	2.11	1.94	28.0		10	54.4
			2.24	40	50	1.78					
50		2.5	.50	50	46	2.40	2.09	25.0		10	52.3
			2.00	40	50	1.78					
60		1.8	.36	50	44	2.51	2.31	18.0		10	41.5
			1.44	40	42	2.11					
70		1.8	.36	50	45	2.46	2.34	18.0		10	42.1
			1.44	40	40	2.22					
80		1.8	.36	50	45	2.46	2.22	18.0		10	40.0
			1.44	40	45	1.97					
90		2.3	.46	50	42	2.63	2.42	23.0		10	55.6
			1.84	40	40	2.22					
100		2.5	.50	50	42	2.63	2.30	25.0		10	57.5
			2.00	40	45	1.97					
110		2.5	.50	50	42	2.63	2.32	25.0		10	58.0
			2.00	40	44	2.02					
120		2.7	.54	50	47	2.35	2.10	27.0		10	56.6
			2.16	40	48	1.85					
130		2.5	.5	50	48	2.31	2.16	25.0		10	54.0
			2.0	40	44	2.02					
140		2.3	.46	40	42	2.11	1.92	23.0		10	44.2
			1.84	40	51	1.77					
											638.6

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	52	1.71	1.55	22.0		10	34.1
			1.76	25	40	1.39					
160		2.0	.40	30	40	1.67	1.44	20.0		10	28.8
			1.60	25	46	1.22					
170		1.3	.78	25	41	1.36	1.36	13.0		10	17.7
180		1.5	.90	30	50	1.34	1.34	15.0		10	20.1
190		1.2	.72	25	40	1.39	1.39	12.0		10	16.7
200		1.3	.78	25	42	1.33	1.33	13.0		10	17.3
210		1.3	.78	30	45	1.48	1.48	13.0		10	19.2
220		1.4	.84	30	45	1.48	1.48	14.0		10	20.7
230		1.3	.78	30	45	1.48	1.48	13.0		10	19.2
240		1.2	.72	25	44	1.27	1.27	12.0		10	15.3
250		.3	.18	10	40	.57	.57	3.0		10	1.7
260		.5	.30	20	41	1.09	1.09	5.0		10	5.4
270		LEW			10:30	a.m.		0		5	0
								454.1		268	839.4
											854.8

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