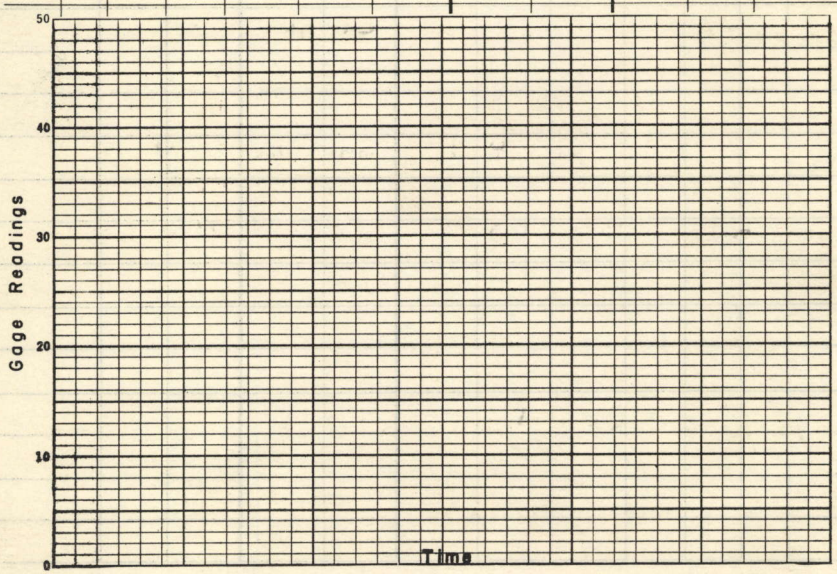
River at

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



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RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 501

Checked by RHD

Date 12-14-56

Water temp. 59 °F

Air temp. _____ °F

Time _____

BRAZOS RIVER AT RICHMOND, TEX

Date DEC. 4, 1956 Party BAUER & POPE

Width 263 Area 1,110 Vel. 0.94 G.H. _____ Disch. 1,040

Method 2.6.8 No. Secs. 19 G.H. Chng. .00 ft. per hr. Time meas. 1.09 hrs.

Meter No. 2833 Date Rated 3-22-49 Susp. 30 c 5 Susp. Coef. 1.005

Method Coef. 1.00 Hor. angle Coef. noted Used rating for, rod 5 Susp.

GAGE READINGS					
Time	Meas	Recorder	Tape	Inside	Outside
~~2:25~~	PM W.	WT. =	1.39	1.39	1.37±04
2			1.39		
2:56	P.M.	1.39	1.39	1.39	1.37±04
~~4:40~~	~~PM~~	~~1.38~~	~~1.38~~		
3:25	E		(1.38)		
4:20	E		(1.38)		
9:40	PM	1.38	1.38		
Weighted MGH			1.38		
GH Corr.					
Correct MGH					

Meter 0.5 ft. above bottom of weight

Spin before meas. OK after OK

~~Wading~~, cable, ice, boat, upstr., downstr., side bridge 270 feet, mile, above, below gage, and _____

~~Chain~~, wire, found ? — 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 fairly uniform

Flow smooth Weather cool & sunny

Other —

Gage apparently OK

Record removed YES Intakes flushed No

Pencil — Wt. Adj. No Paper DRY

Record CLEAR Chart time OK Clock Reg. NO

Observer NOT SEEN

Control _____

Remarks PK. MK ON TAPE = 1.98

Page 1 of 3 G.H. of zero flow _____ ft.

Brazos River at Richmond

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
			LEW @ 3:25 pm.				Windy upstr.	(3065)			
335		0								5	
325	⊥	1.2	.7	7	44		.38	15.0		12½	5.7
310	⊥	2.6	1.6	15	59		.58	39.0		15	22.6
295	.99	3.2	.6	20	46	.98	.87	47.5	48.0	15	41.3
			2.6	15	45	.76					
280	⊥	3.3	.7	20	44	1.03	.95	49.5		15	47.0
			2.6	20	52	.87					
2~~7~~65	⊥	4.0	.8	20	41	1.10	.96	60.0		15	57.6
			3.2	15	42	.81					
2~~6~~50	⊥	4.0	.8	20	40	1.13	1.06	60.0		15	63.6
			3.2	20	46	.98					
235	⊥	4.3	.9	20	46	.98	.94	64.5		15	60.7
			3.4	20	51	.89					
220	⊥	4.4	.9	20	42	1.08	.94	66.0		15	62.0
			3.5	15	43	.79					
205	⊥	4.8	1.0	20	46	.98	.97	72.0		15	69.9
			3.8	20	47	.96					
190	⊥	5.0	1.0	20	42	1.08	.95	75.0		15	71.2
			4.0	20	55	.82					
175	⊥	5.1	1.0	20	44	1.03	.88	76.5		15	67.3
			4.1	15	46	.74					
160	⊥	5.8	1.2	20	45	1.01	.88	87.0		15	76.6
			4.6	15	45	.76					
145	⊥	6.5	1.3	20	52	.87	.79	97.5		15	77.0
			5.2	15	48	.71					
130	⊥	7.0	1.4	15	40	.85	.83	105		15	87.0
			5.6	15	42	.81					
								814.5			809.5

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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
								814.5			809.5
115		7.0	14	15	41	.83	.76	105		15	79.8
			56	15	49	.70					
100		7.2	1.4	20	50	.90	.82	108		15	88.5
			5.8	15	46	.74					
.85		5.8	1.2	20	55	.82	.76	~~87.0~~ 81.2		~~15~~ 14	61.7
335			4.6	15	49	.70					
72		0						0		6½	0
263			REW @ 4:20 pm								1039.5
								2 ~~1~~08.7		263	x1.005
											1044.7

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