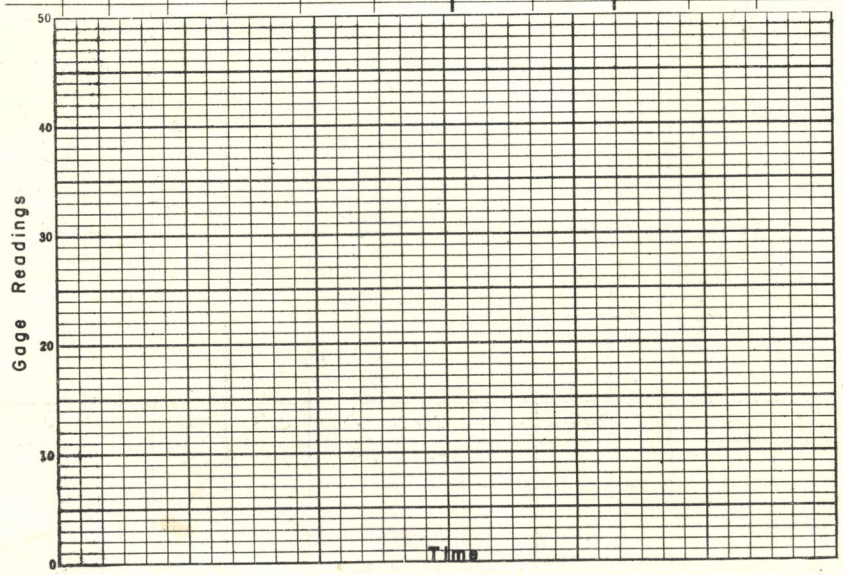
River at

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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A-34 RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 459

Checked by SMH

Date 9-8-54

Water temp. 88 °F

Air temp. _____ °F

Time _____

Brazos River at Richmond Tex.

Date Sept. 7, 1954 Party Sensom & Dolman

Width 180 Area 345 Vel. 1.15 G.H. _____ Disch. 397

Method 6-2-8 No. Secs. 24 G.H. Chng. +01 ft. per hr. Time meas. 0.6 hrs.

Meter No. 2173 Date Rated Oct 1952 Susp. Rod Susp. Coef. 1.00

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

GAGE READINGS					W.WT.
Time	Meas	Recorder	Tape	Inside	Outside
11:00 am			0.47	*	0.50
11:15 a		0.47	0.47		
11:50 s			(0.47)		
12:15 f			(0.48)		
12:50 pm			0.48	*	0.51
Weighted MGH			0.48		
GH Corr.					
Correct MGH					

Meter — ft. above bottom of weight

Spin before meas. OK after OK

Wading, cable, ice, boat, upstr., downstr., side bridge 6000 feet, mile, above, below gage, and below gravel bar

Chain, wire, found 58.71 at _____ G-Sta.

Changed to — at _____

Correct length 58.68

Levels Obtained No

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

Cross section Uniform - sand

Flow Smooth Weather Fair

Other —

Gage OK

Record removed Yes Intakes flushed * No

Pencil OK Wt. Adj. No Paper Dry

Record clear Chart time 3/4 hr. Sl. Clock Reg. No

Observer not seen

Control not verified - (not inspected).

Remarks Found Max. stage ind. = 1.28. Min. stage ind. is missing. Need to install new OG plate 0-3.3 while water is low.
* Need to hook up chain to cone "flusher".
* Bottom of OG is at 1.70 IG = 3.0
42 days remaining supply roll

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		11:50		Meter		2173		
4		0		r	=0					1	0
6	⊥	0.2	.10	10	50		.46	.8		4	0.37
12	⊥	.9	.54	15	46		.76	.63		7	4.7
20	⊥	1.4	.84	20	49		.92	11.2		8	10.3
28	⊥	1.8	.36	20	41	1.09	1.00	14.4		8	14.4
			1.44	20	49	.92					
36	⊥	2.3	.46	25	45	1.24	1.11	18.4		8	20.4
			1.84	20	46	.98					
44	⊥	2.4	.48	25	40	1.39	1.22	19.2		8	23.4
			1.92	20	43	1.04					
52	⊥	2.7	.54	30	46	1.45	1.32	21.6		8	28.5
			2.16	25	47	1.19					
60	⊥	2.8	.56	25	42	1.33	1.20	22.4		8	26.9
			2.24	20	42	1.07					
68	⊥	3.3	.66	25	44	1.27	1.06	26.4		8	28.0
			2.64	20	53	.85					
76	⊥	3.1	.62	30	46	1.45	1.22	24.8		8	30.2
			2.48	20	45	1.00					
84	⊥	3.0	.60	25	43	1.30	1.08	24.0		8	25.9
			2.40	15	40	.85					
92	⊥	2.8	.56	30	47	1.42	1.23	22.4		8	27.6
			2.24	20	43	1.04					
100	⊥	2.8	.56	25	40	1.39	1.10	19.6		7	21.6
			2.24	20	55	.82					
106	⊥	1.8	.36	30	44	1.52	1.34	14.4		8	19.3
			1.44	25	48	1.17					
116	⊥	1.6	.32	25	45		1.24	16.0		10	19.8
			.96								

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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
126	⊥	1.6	.96	20	40		1.12	16.0		10	17.9
136	⊥	1.4	.84	25	41		1.36	14.0		10	19.0
146	⊥	1.3	.78	25	42		1.33	13.0		10	17.3
156	⊥	1.4	.84	25	47		1.19	14.0		10	16.6
166	⊥	1.4	.84	20	46		.98	14.0		10	13.7
176	⊥	1.3	.78	20	49		.92	10.4		8	9.6
182		0.5	.25	15	50		.68	2.0		4	1.4
184		0		r	=0					1	0
			LEW		12:25 pm			345.3		180	396.9

TG=0.48
WW=0.51 @12:50 pm

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