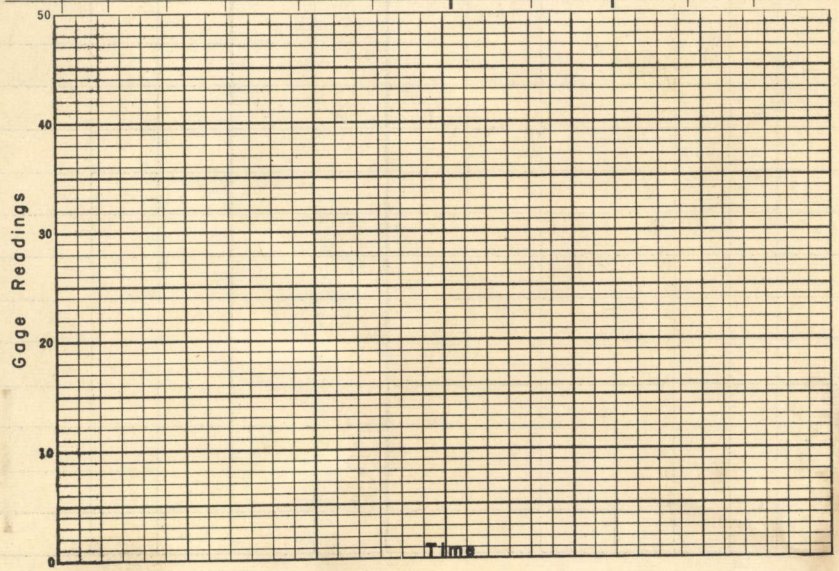
River at

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. 485

Checked by R.D.D.

Date 7-2-56

Water temp. 87 °F

Air temp. _____ °F

Time 4:45 pm

Brazos River at Richmond, Tex.

Date June 14, 1956 Party R.L. Butler & J.N. Sansom

Width 245 Area 576 Vel. 1.57 G.H. _____ Disch. ~~905~~ *896

Method 2.6.8 No. Secs. 20 G.H. Chng. -.01 ft. per hr. Time meas. 1.0 hrs.

Meter No. 2173 Date Rated Oct 52 Susp. Rod Susp. Coef. 1.00

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

GAGE READINGS

Time	Meas	Recorder	Tape	Inside	Outside (w.wt.)
3:20 pm			1.32	*	1.34
3:45 pm		1.314	1.314		
4:40 pm			1.30		1.31
4:45 pm		End	(1.30)		
Weighted MGH			1.30		
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~~ 12,000 feet, mile, above, below gage, and 200' above control

Chain, wire, found 58.68 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 Clear

Other —

Gage OK

Record removed Yes Intakes flushed No

Pencil OK Wt. Adj. No Paper Dry

Record clear Chart time OK Clock Reg. No

Observer not visited - USWB -

Control ½ gravel bar at this wading sect -

Remarks * No IG at this stage -
Max. stage ind = 11.06 Min = 0.58. Reset May 10, 1956

* Storage corr. $\frac{260\,(est) \times 12000 \times .01}{3600} = 8.7$

Page 1 of 3 G.H. of zero flow — ft.

Brazos River — 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	VELOCITY Corr. Area	Area	Width	Discharge
REW - Start - 3:45 pm - Wade 600 ft below - 2173											
0		0					0	0		2½	0
5	⊥	4.0	.8	20	42	1.07	1.00	20.0		5	20.0
			3.2	20	49	.92					
10	⊥	4.0	.8	30	40	1.67	1.53	30.0		7½	46.0
			3.2	30	48	1.39					
20	⊥	3.6	.7	40	50	1.78	1.66	36.0		10	59.8
			2.9	30	43	1.55					
30	⊥	3.4	.7	40	49	1.81	1.70	42.5		12½	72.2
			2.7	30	42	1.59					
45	⊥	3.1	.6	40	42	2.11	1.89	46.5		15	88.0
			2.6	30	40	1.67					
60	⊥	3.0	.6	40	42	2.11	1.89	45.0		15	85.7
			2.4	30	40	1.67					
75	⊥	2.9	.6	40	42	2.11	1.87	43.5		15	81.3
			2.3	30	41	1.63					
90	⊥	3.0	.6	40	42	2.11	1.89	45.0		15	85.7
			2.4	30	40	1.67					
105	⊥	3.1	.6	40	43	2.06	1.84	46.5		15	85.6
			2.5	30	41	1.63					
120	⊥	3.1	.6	40	48	1.85	1.56	46.5		15	72.6
			2.5	25	44	1.27					
135	⊥	2.6	.5	40	52	1.71	1.50	39.0		15	58.5
			2.1	25	43	1.30					
150	⊥	2.3	.5	30	43	1.55	1.44	34.5		15	49.7
			1.8	25	42	1.33					
165	⊥	2.1	.4	25	42	1.33	1.18	31.5		15	37.2
			1.7	20	43	1.04					
180	⊥	1.5	.9	20	45	1.00	1.00	22.5		15	22.5
								5290		167½	863.6

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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	VELOCITY Corr. Area	Area	Width	Discharge
								569.0		167½	863.6
195	⊥	1.1	.7	20	49		.92	16.5		15	15.2
210	⊥	.9	.5	20	50		.90	13.5		15	12.2
225	⊥	.8	.5	20	50		.90	12.0		15	10.8
240	⊥	.5	.3	15	45		.76	5.0		10	3.8
245		0					0	0		2½	0
								616.0		215	905.6
REW - Fin. 4:45 pm											
Water Temp 87°											

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