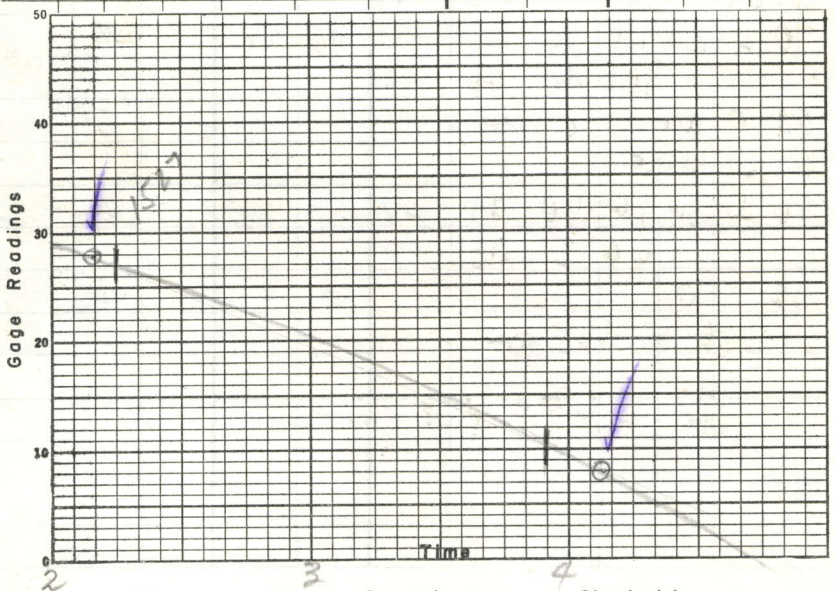
River at

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. 429

Checked by C.T.W.

Date 4-7-54

Boyers 31,600

Water temp. ____ °F

Air temp. ____ °F

Time ____

Brazos River at Richmond Tex

Date Oct 30, 1953 Party Dolman & Sansom

Width 402 Area 6,150 Vel. 4.54 G.H. 15.19 Disch. 27,800

Method 2-8 No. Secs. 28 G.H. Chng. -.10 ft. per hr. Time meas. 1.7 hrs.

Meter No. 252 Date Rated 12-10-52 Susp. 100 < 1° 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~~ WWT	Outside
2:10 pm		15.30	15.28	15.38	
2:15 pm	Start	(15.27)			
3:55 pm	End	(15.10)			
4:08 pm			15.08		15.08
~~Weighted~~ MGH			15.19		
GH Corr.					
Correct MGH					

Meter 1.00 ft. above bottom of weight

Spin before meas. OK after OK

Wading, cable, ice, boat, upstr., downstr., side bridge 125 feet, mile, above, below gage, and

Chain, wire, found 58.69 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 fairly smooth Weather Windy-raining

Other —

Gage OK

Record removed No Intakes flushed No

Pencil OK Wt. Adj. No Paper Dry

Record Clear-some surge Chart time OK Clock Reg. No.

Observer not seen

Control Channel - apparently

Remarks Peak this rise = 15.4 at about noon this date -

Page 1 of 4 G.H. of zero flow — ft.

80. 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
85. Lew @ 2:15 pm Cable 100 Cl. 0 #1252											
LEW 454		0					0	0		8	0
90.											
438		3.3	Est V=0				0	56		17	0
92.											
94. 420	⊥	5.2	1.0	10	49	.47	.36	99		19	36
			4.2	5	45	.26					
96. 400	⊥	12.9	2.6	60	48	2.76	2.66	226		17½	601
97.											
98.			10.3	50	43	2.57					
99. 385	⊥	16.2	3.3	80	47	3.75	3.75	243		15	910
			12.9	80	47	3.75					
370	⊥	16.9	3.4	80	46	3.83	3.64	254		15	925
			13.5	80	51	3.46					
355	⊥	18.5	3.7	100	47	4.68	4.30	278		15	1200
			14.8	80	45	3.91					
340	⊥	17.3	3.5	100	43	5.11	4.90	260		15	1,270
99.			13.8	100	47	4.68					
98. 325	⊥	15.3	3.1	100	45	4.89	4.89	230		15	1,120
97.			12.2	100	45	4.89					
96. 310	⊥	15.3	3.1	100	40	5.58	5.30	230		15	1,220
94.			12.2	100	43	5.11					
92. 295	⊥	15.3	3.1	150	59	5.59	5.48	230		15	1,260
			12.2	100	41	5.36					
90. 280	⊥	14.4	2.9	150	56	5.89	5.78	216		15	1,280
			11.5	150	59	5.59					
265	⊥	14.5	2.9	150	56	5.89	5.70	218		15	1,240
85. Time out @ 3:00 p			11.6	100	40	5.50					
250	⊥	16.3	3.3	150	58	5.68	5.34	245		15	1,300
80. 3:10 pm			13.0	100	44	5.00					
235	⊥	17.1	3.4	150	58	5.68	4.98	256		15	1,280
			13.7	80	41	4.29		3041			13,600

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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
85. Wind & rain upstream								3041			13,600
220	⊥	16.4	3.3	100	40	5.50	5.36	287		17½	1,540
Rain			13.1	100	42	5.23					
200	⊥	18.4	3.7	100	40	5.50	5.09	368		20	1,870
90.			14.8	100	47	4.68					
92. 180	⊥	18.7	3.7	150	57	5.78	5.28	374		20	1,980
94.			15.0	100	46	4.78					
160	⊥	18.8	3.8	100	42	5.23	4.53	376		20	1,700
96.			15.0	80	46	3.83					
97.											
98. 140	⊥	19.8	4.0	100	45	4.89	4.40	396		20	1,740
99.			15.8	80	45	3.91					
120	⊥	21.9	4.4	100	46	4.78	4.48	438		20	1,960
			17.5	80	42	4.19					1700
100	⊥	22.9	4.6	100	43	5.11	4.94	348		15	~~1690~~
			18.3	100	46	4.78					
90	⊥	21.0	4.2	100	41	5.36	5.12	210		10	1,070
			16.8	100	45	4.89					
99. 80	⊥	16.5	3.3	80	41	4.79	3.98	165		10	658
98. Turb 2			13.2	80	48	3.67					
97. 70	⊥	13.2	2.6	20	45	.99	1.46	106		8	155
96. Boils			10.6	40	46	1.92					
94. 64	0	10.2		0	(effective)		0	0	51	5	0
92. New flow											
90. 60	⊥	8.0	1.6	20	41	1.09	.69	48		6	33
			6.4	5	40	.29					
REW 52		0					0	0		4	0
								6152			27840
85. Rew @ 3:55 pm											1926
TH 7											
OG 3 15.08 @ 4:08 pm											
80. Considerable surge											

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