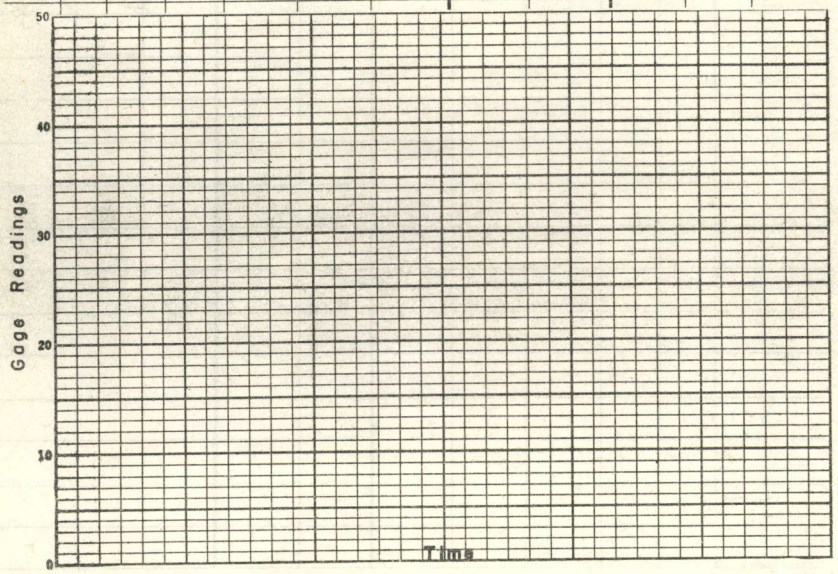
80. _____ River at _____

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

85. 90. 92. 94. 96. 97. 98. 99. 99. 98. 97. 96. 94. 92. 90. 85. 80. 75.



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RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 433

Checked by CTW

Date 4-7-54

Water temp. Not taken °F

Air temp. °F

Time

Brazos River at Richmond, Tex.

Date Jan. 18, 19 54 Party Sansom & Beck

Width 287 Area 1,344 Vel. 1.27 G.H. _____ Disch. 1,710

Method 2.6.8 No. Secs. 22 G.H. Chng. 0 ft. per hr. Time meas. 0.9 hrs.

Meter No. 3055 Date Rated 8-12-49 Susp. 30 c.s. Susp. Coef. 1.005

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

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 58.76 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

GAGE READINGS

Time	Meas	Recorder	Tape	Inside	Outside
9:20 am			2.79	*	2.80
9:00 am		2.79+	2.79		
10:40 am Start (2.80)					
11:34 am End (2.80)					
11:58 am			2.80		2.80
Weighted MGH			2.80		
GH Corr.					
Correct MGH					

Flow Smooth - Weather cloudy - cool

Other Med. breeze upstream

Gage OK

Record removed Yes Intakes flushed No

Pencil 3B OK Wt. Adj. No Paper Dry

Record clear Chart time 1 hr Slow Clock Reg. No

Observer did not see -

Control not inspected this date - inspected 1-19-54 at gravel bar 2 mi. below - appears to have scoured some -

Remarks Max. stage ind. = 2.79 Found min. missing - Installed new

* No IG at this stage WW = 2.85 @ 9:45 am

WW = 2.82 @ 11:58 am WWG not accurate at low stages with

52 Days remain on supply roll (waves on water

Instr. shelf should be redesigned so that pk. stg. ind. will work.

(see J.N.S.)

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
			Start - 10:40								
L.E.W. 356		0	0	0	0	0	0	0		3	0
350	.95	.6	.1	15	49	.69	.69	4.6	4.8	8.0	3
340	.95	1.5	.9	15	40	.84	.84	21.4	22.5	15.0	18
320	.96	3.2	.6	25	43	1.29	1.16	61.4	64.0	20.0	71
			2.6	20	43	1.04					
300	.99	5.0	1.0	30	43	1.55	1.34	89.1	90.0	18.0	119
			4.0	20	40	1.12					
284	.99	5.6	1.1	30	46	1.45	1.28	88.7	89.6	16.0	114
			4.5	20	40	1.12					
268	.99	5.9	1.2	30	45	1.48	1.30	93.5	94.4	16.0	122
			4.7	20	40	1.12					
252	.99	5.4	1.1	30	42	1.58	1.42	85.5	86.4	16.0	121
			4.3	25	44	1.26					
236	.99	5.6	1.1	30	43	1.55	1.40	88.7	89.6	16.0	124
			4.5	25	45	1.24					
220	.99	4.5	.9	30	44	1.51	1.34	71.3	72.0	16.0	96
			3.6	25	48	1.16					
204	.99	3.7	.7	30	43	1.55	1.36	58.6	59.2	16.0	80
			3.0	25	47	1.18					
188	.99	3.8	.8	30	42	1.58	1.36	~~58.7~~ 60.2	~~58.8~~ 60.8	16.0	~~79~~ 82
			3.0	30	59	1.13					
172	.99	4.0	.8	30	44	1.51	1.38	59.4	60.0	15.0	82
			3.2	25	45	1.24					
158	.99	4.7	.9	30	45	1.48	1.40	65.1	65.8	14.0	91
			3.8	25	42	1.32					
144	.99	5.7	1.1	30	46	1.45	1.30	73.4	74.1	13.0	96 5
			4.6	25	48	1.16		~~918.9~~ 20.9		218.0	1216 1456

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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
								~~918.9~~ 209		218	1216
132	⊥	6.2	1.2	30	47	1.42	1.30	74.4	74.4	12.0	97
			5.0	25	47	1.18					
120	⊥	6.5	1.3	25	40	1.39	1.30	78.0	78.0	12.0	101
			5.2	25	46	1.21					
108	⊥	7.1	1.4	25	40	1.39	1.24	85.2	85.2	12.0	106
			5.7	20	41	1.09					
96	⊥	7.6	1.5	25	42	1.32	1.28	91.2	91.2	12.0	117
			6.1	25	45	1.24					
84	⊥	6.7	1.3	15	41	.82	.76	80.4	80.4	12.0	61
			5.4	15	48	.71					
72	⊥	1.6	1.0	5	51	.24	.24	12.0	12.0	7.½	3
R.E.W. 69		0	0	0	0	0	0	0		1.½	0
								1342.1			1703
			End - 11:34 a.m.								
287										287	x1.005
											1712

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