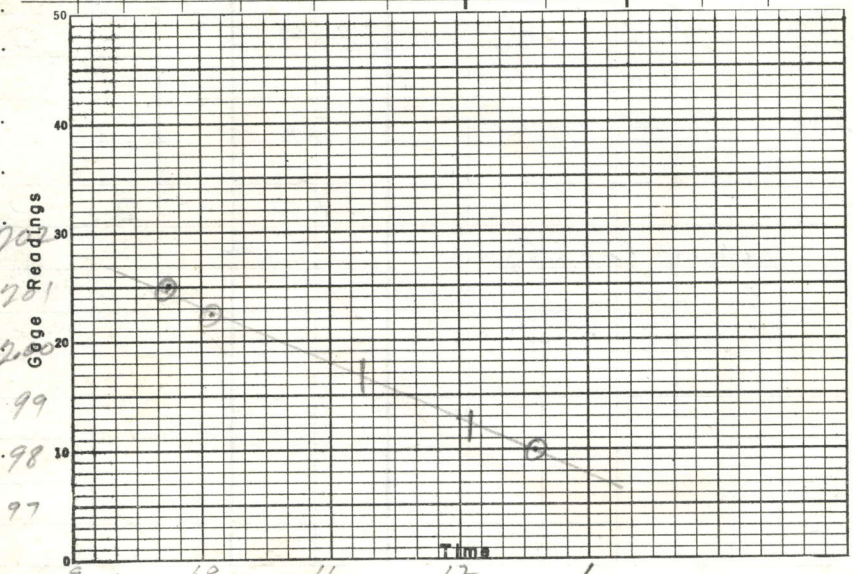
80. River at

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.											



Page 4 of 4 Comp. by: Checked by:

A-34 RECORDED

Water temp. 86 °F

Air temp. °F

Time

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 425

Checked by SWW

Date 11/4/53

Brazos River at Richmond, Tex.

Date Sept. 16, 1953 Party J.N. Sansom

Width 294 Area 469 Vel. 2.33 G.H. Disch. 1,090

Method 2.6.8 No. Secs. 27 G. H. Chng. -.01 ft. per hr. Time meas. .8 hrs.

Meter No. 2827 Date Rated 3-22-49 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
9:45 am			2.01	*	2.02
10:05 am		2.01-	2.01-		
11:15 am	Start		(1.99+)		
12:05 pm	End		(1.98+)		
12:35 pm			1.98		1.99
Weighted MGH			1.99		
GH Corr.					
Correct MGH					

Meter — ft. above bottom of weight

Spin before meas. OK after OK

Wading, cable, ice, boat, upstr., downstr., side bridge 2 feet, mile, above, below gage, and at control

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 fairly uniform - Gravel & Sand

Flow fairly smooth - swift Weather clear - hot - calm

Other —

Gage OK - need new chain on cone flushing system Record removed Yes Intakes flushed No

Pencil AB-OK Wt. Adj. No Paper Dry

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

Observer not visited - WWG OK No USGS observer

Control inspected - consists of gravel riffle - free of debris and subject to shifts 06 @ 6.56

Remarks WWG = 2.02 @ 9:18 am Peak mark on IG at 6.54 Grease

* No IG below 3.3 Max. Stage ind. = 6.52 No Min. -

IG should be extended at least 2 ft. lower

cleaned excess grease & oil from WWG

Not necessary ARH

Page 1 of 4 G.H. of zero flow Not det. ft.

Brazos River at Richmond, Tex.

Dist. from initial point	Angle Coef-ficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY: At point	VELOCITY: Mean in section	Corr. Area	Area	Width	Discharge
REW @ 11:15 am Wade 2 mi. below at control											#2827
REW 0		0					0	0		5	0
10	⊥	.3	.5	20	45		.99	4.5		15	4.4
30		.4	.2	30	43		1.55	8.0		20	12.4
50		.3	.15	25	46		1.21	6.0		20	7.3
70		.4	.2	15	43		.78	8.0		20	6.2
90		1.2	.72	7	42		.38	18.0		15	6.8
100	⊥	1.7	.3	30	41	1.62	1.42	17.0		10	24.2
			1.4	25	46	1.21					
110	⊥	1.6	.3	40	45	1.97	1.89	16.0		10	30.3
			1.3	49	49	1.81					
120	⊥	2.3	.5	40	48	1.84	1.62	23.0		10	37.2
			1.8	25	40	1.39					
130	⊥	2.6	.5	30	41	1.62	1.50	26.0		10	39.0
			2.1	25	40	1.39					
140	⊥	2.4	.5	40	50	1.77	1.77	24.0		10	42.5
			1.9	40	50	1.77					
150	⊥	2.4	.5	50	46	2.40	2.20	24.0		10	52.8
			1.9	40	42	2.01					
160	⊥	2.1	.4	60	42	3.14	2.92	21.0		10	61.3
			1.7	50	41	2.69					
170	⊥	2.4	.5	60	40	3.30	2.90	24.0		10	69.6
			1.9	50	44	2.51					
180	⊥	2.2	.4	80	49	3.58	3.10	22.0		10	68.2
			1.8	60	42	2.62		241.5			462.2

Comp. by: JNS Checked by: _____

Dist. from initial point	Angle Coef-ficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY: At point	VELOCITY: Mean in section	Corr. Area	Area	Width	Discharge
								241.5			462.2
190	⊥	1.7	.3	80	50	3.51	3.01	17.0		10	51.2
			1.4	50	44	2.51					
200	⊥	1.4	.84	50	40		2.75	14.0		10	38.5
210	⊥	1.3	.78	50	41		2.69	13.0		10	35.0
220	⊥	1.6	.96	50	40		2.75	16.0		10	44.0
230	⊥	2.4	.5	80	50	3.51	3.10	24.0		10	74.4
			2.0	50	41	2.69					
240	⊥	2.8	.6	80	49	3.58	3.29	28.0		10	92.2
			2.2	60	44	3.00					
250	⊥	3.4	.7	60	42	3.14	2.92	34.0		10	100.0
			2.7	50	40	2.75					
260	⊥	3.0	.6	60	42	3.14	2.98	30.0		10	89.4
			2.2	60	47	2.81					
270	⊥	2.6	.5	50	48	2.30	2.35	26.0		10	61.1
			2.1	50	46	2.40					
280	⊥	1.9	.4	40	45	1.97	1.80	19.0		10	34.2
			1.5	30	41	1.62					
290	⊥	.9	.54	40	50		1.77	6.3		7	11.1
LEW 294		0					0	0		2	0
								268.8		241	109.3

LEW @ 12:05 pm

TG = 1.98 W = 86

OG = 1.99 @ 12:35 pm

Comp. by: JNS Checked by: _____