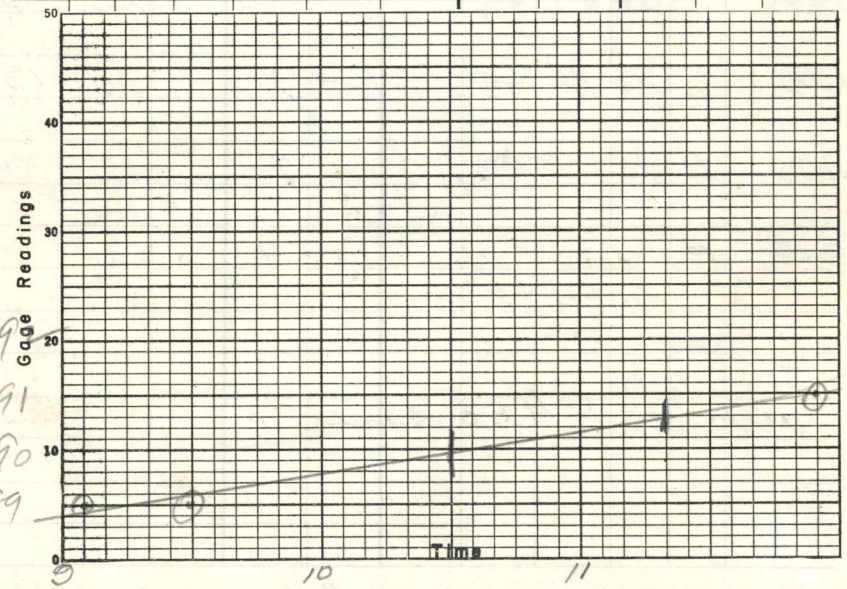
80. _____ River at _____

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 ___ of ___ Comp. by: _____ Checked by: _____

A-34

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
RECORDED
Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 471
Checked by RHD
Date 7-26-55

Water temp. 87 °F
Air temp. _____ °F
Time 11:18 am.

Brazos River at Richmond, Tex.

Date July 21, 1955 Party Sansom & Green
Width 412 Area 628 Vel. 1.87 G.H. _____ Disch. 1,210
Method 2.6.8 No. Secs. 27 G.H. Chng. +.01 ft. per hr. Time meas. 1.8 hrs.
Meter No. 1318 Date Rated 9-16-49 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
9:05	am		1.89	*	1.90
9:30	am	1.89	1.89		
10:30	am	Start	(1.90)		
11:18	am	End	(1.90+)		
11:55	am		1.91		1.92
~~Weighted~~ MGH			1.90		
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 at control
Chain, wire, found 38.67 at _____ G-Sta.
Changed to 5 at _____
Correct length 38.68
Levels Obtained No
Measurement rated, excellent (2 %), good (5 %)
fair (8 %), poor (over 8 %) based on following
Cross section Uniform - gravel & sand

Flow Smooth Weather clear hot calm

Other —

Gage * IG ends at 3.4 USWB Aux. WWG = 1.90 @ 9:00 am.

Record removed Yes Intakes flushed No

Pencil OK Wt. Adj. No Paper Dry

Record clear Chart time 1 hr Sl. Clock Reg. No

USWB Observer not seen clock # 574541 d. 10-18-54

Control is gravel bar 6000 ft below - clear -

Remarks Installed new lock on lower door - installed new roll recorder chart paper.
Max. stage ind. = 7.83. No min. - installed one

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
LEW @ 10:30 am wading 6000 feet below met #1318											
12		0	U = 0				0	0		1	0
14	+	.3	.15	15	47		.71	1.2		4	.8
20		.6	.24	15	40		.83	7.8		13	6.5
40		.9	.36	20	40		1.10	18.0		20	19.8
60		1.0	.40	20	41		1.07	20.0		20	21.4
80		.9	.36	25	42		1.30	18.0		20	23.4
100		1.4	.56	30	44		1.49	28.0		20	41.7
120		1.5	.60	30	42		1.56	30.0		20	46.8
140		.9	.36	20	52		.85	18.0		20	15.3
160		1.3	.52	40	52		1.67	26.0		20	43.4
180		1.8	.36	20	43	1.02	1.26	36.0		20	45.3
			1.44	30	44	1.49					
200		2.3	1.84	40	47	1.89	1.67	46.0		20	76.8
			.46	30	45	1.45					
220		3.0	.6	40	46	1.89	2.12	45.0		15	95.3
			2.4	50	46	2.36					
230		3.1	2.48	50	44	2.46	2.14	31.0		10	66.3
			.62	40	48	1.81					
240		3.1	2.48	50	42	2.58	2.20	31.0		10	68.2
			.62	40	48	1.81		356.0			571.0

Page 2 of 3 Comp. by: CWG JNS Checked by:

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
								356.0			571.0
250	+	3.0	2.4	50	46	2.36	2.07	30.0		10	62.1
			.6	40	49	1.78					
260		3.0	2.4	50	43	2.52	2.20	30.0		10	66.0
			.6	40	46	1.89					
270		3.1	2.48	50	43	2.52	2.20	31.0		10	68.2
			.62	40	46	1.89					
280		2.7	2.16	50	42	2.58	2.14	40.5		15	86.8
			.54	40	51	1.71					
300		2.1	1.68	60	47	2.76	2.48	42.0		20	104.0
			.42	50	49	2.21					
320		1.7	1.36	50	40	2.71	2.44	34.0		20	83.0
			.34	40	40	2.17					
340		1.5	.90	40	40		2.17	30.0		20	65.1
360		1.2	.72	40	41		2.12	24.0		20	50.9
380		.9	.54	40	46		1.89	18.0		20	35.9
400		.6	.36	30	41		1.59	12.0		20	19.1
420		.2	.10	7	46		.35	2.4		12	.8
424		0	U = 0				0	0		2	0
								649.4		412	1212.9

REW @ 11:18 am
Temp = 87°
TG = 1.91
MW = 1.92 @ 11:55 am

Page 3 of 3 Comp. by: CWG JNS Checked by: RHD