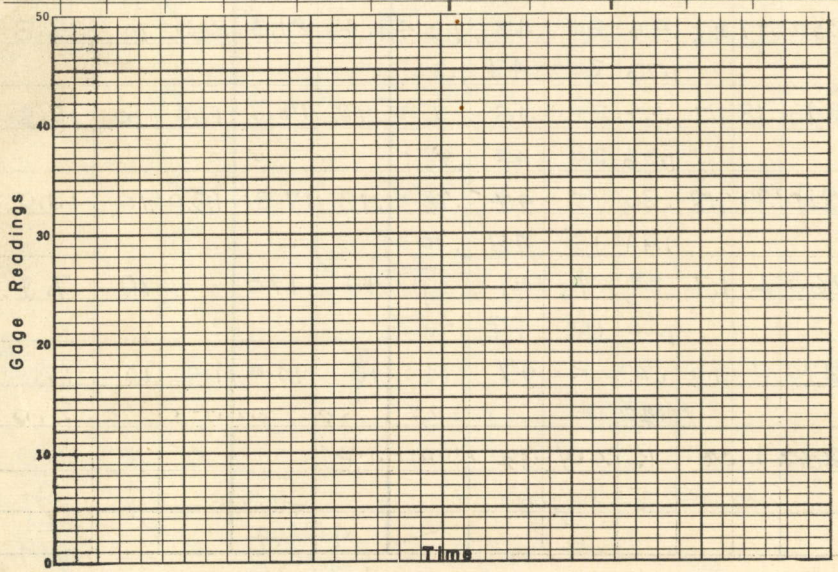
River at

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



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

A-34 RECORDED

CS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 502

Checked by VBS

Date 12-21-56

Water temp. 60 °F

Air temp. _____ °F

Time _____

Brazos River at Richmond, Tex

Date Dec. 17, 1956 Party Sansom & Pope 910

Width 280 Area ~~285.74~~ Vel. ~~2.00~~ 1.92 G.H. _____ Disch. 887

Method 2.6.8 No. Secs. ~~29~~ 30 G.H. Chng. 00 ft. per hr. Time meas. 1 hrs.

Meter No. 1949 Date Rated Dec. 53 Susp. Rod Susp. Coef. 1.00

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

GAGE READINGS w.wt.

Time	Meas	Recorder	Tape	Inside	Outside
2:50 pm			1.18		1.18
4:00 pm	Start		(1.18)		
5:00 pm	End		(1.18)		
5:30 PM			1.18		1.18
~~Weighted~~ MGH			1.18		
GH Corr.					
Correct MGH					

Meter — ft. above bottom of weight

Spin before meas. OK after OK

Wading, cable, ice, boat, upstr., downstr., side bridge 1 feet, mile, above, below gage, and at low water control

Chain, wire, found 58.70 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 - gravel

Weather Cloudy - calm

Flow Smooth

Other —

Gage O.K.

Record removed No Intakes flushed No

Pencil None Wt. Adj. No Paper Dry

Record clear Chart time OK Clock Reg. No

Observer not visited

Control is bed and banks

Remarks Found temp. pen not marking - blotter in wrong position behind take-up roller.

Page 1 of 3 G.H. of zero flow

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
0	⊥	0	L.E.W.		4:00 pm		0	0		2	0
4	⊥	.6	.36	20	40		1.11	~~1.2~~ 3.0		5	3.3
10	⊥	1.0	.6	25	49	1.13	1.13	~~5.0~~ 8.0		8	~~5.6~~ 9.0
20	.98	1.9	.38	40	41	2.14	1.89 90	~~14.9~~ 18.6	~~15.2~~ 19.0	10	~~28.2~~ 35.3
			1.52	30	40	1.65					
30	.98	1.6	.32	40	40	2.20	1.92	15.7	16.0	10	30.2
			1.28	30	40	1.65					
40	.99	1.0	.6	40	40		2.20	9.9	10.6	10	21.8
50	.99	1.1	.66	50	47		2.33	10.9	11.0	10	25.4
60	.99	1.5	.90	50	49		2.24	~~14.8~~ 9.0	15.0	10	~~32.6~~ 33.1
70	⊥	1.4	.84	50	41		2.68	14.0		10	~~36.4~~ 37.5
80	⊥	1.4	.84	50	42		2.61	14.0		10	36.5
90	⊥	1.9	.38	60	45	2.92	2.50	19.0		10	47.5
			1.52	40	42	2.09					
100	⊥	1.7	.34	60	45	2.92	2.58	17.0		10	43.9
			1.36	50	49	2.24					
110	⊥	1.6	.32	60	45	2.92	2.53	16.0		10	40.5
			1.28	40	41	2.14					
120	⊥	1.7	.34	50	40	2.74	2.34	17.0		10	39.8
			1.36	40	45	1.95					
130	⊥	1.6	.32	50	42	2.61	2.24	16.0		10	35.8
			1.28	40	47	1.87					
								~~14.4~~		135	~~425.5~~

Page 2 of 3 Comp. by: WRP Checked by: VBS

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
								~~45.4~~		135	~~425.5~~
140	.99	2.0	.40	50	47	2.33	~~1.86~~ 1.99	19.8	20.0	10	~~36.8~~ 34.4
			1.60	30	40	~~1.88~~ 1.65					
150	.99	2.3	.46	50	48	2.29	~~1.84~~ 1.97	22.8	23.0	10	~~42.0~~ 4.9
			1.84	30	40	~~1.88~~ 1.65					
160	⊥	2.6	.52	50	43	2.55	2.21	26.0		10	57.5
			2.08	40	47	1.87					
170	⊥	2.6	.52	60	46	2.86	2.55	26.0		10	66.3
			2.08	50	49	2.24					
180	⊥	2.3	.46	50	42	2.61	2.28	23.0		10	52.4
			1.84	40	45	1.95					
190	⊥	2.0	.40	40	41	2.14	1.95	20.0		10	39.0
			1.60	40	50	1.76					
OK ~~200~~	~~.99~~	~~1.9~~	~~.38~~	~~40~~	~~41~~	~~2.14~~	~~2.07~~	~~18.8~~	~~19.0~~	~~10~~	~~39.0~~
			~~1.52~~	~~40~~	~~44~~	~~2.00~~					
200	.97	2.0	.40	40	48	1.83	~~1.60~~ 1.74	19.4	20.0	10	~~51.0~~ 33.8
			1.60	30	40	~~1.88~~ 1.65					
220	.97	2.2	.44	30	43	1.54	1.40	21.3	22.0	10	29.8
			1.76	25	44	1.26					
230	.97	2.2	.44	30	43	1.54	1.44	21.3	22.0	10	30.7
			1.76	30	49	1.35					
240	.98	1.7	.34	20	48	.93	.93	16.7	17.0	10	15.6
			1.36	20	48	.93					
250	.99	1.8	.36	15	44	.76	.73	17.8	18.0	10	13.0
			1.44	15	48	.70					
260	⊥	1.7	.34	7	41	.40	.44	17.0		10	7.5
			1.36	10	47	.49					
270	⊥	1.0	.6	2	47		~~.19~~ .2	10.0		10	~~1.0~~ 2
280	⊥	0	L.E.W.				0	0	0	5	0
	Row @ 5:00 pm										
							~~446.4~~ 473.8	~~45.3~~		180	~~887.0~~ 909.7

Page 3 of 3 Comp. by: WRP Checked by: VBS