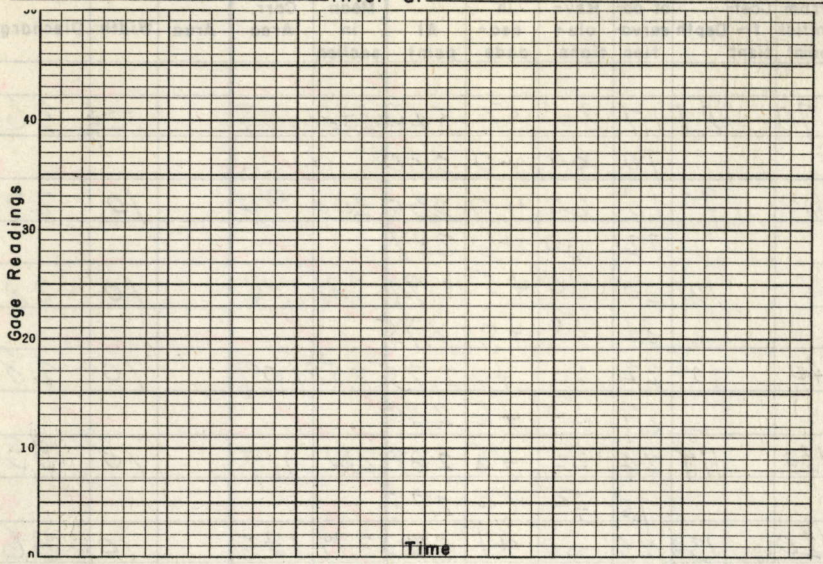
River at _____



Page ____ of ____

A-34 RETURNED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Branch

Water temp. _____ °F
Air temp. _____ °F
Time _____

DISCHARGE MEASUREMENT NOTES

Meas. No. 385
Checked by W.D.R.
Date 5-19-52

Brazos River at Richmond, Tex.

Date April 16, 1952 Party Delmana & Smith 6000
Width 364 Area 2350 Vel. 2.55 G.H. _____ Disch. 5990
Method 6-2-8 No. Secs. 26 G.H. Chng. -.03 ft. per hr. Time meas. 1.3 hrs.
Meter No. 1949 Date Rated 11-5-50 Susp. 50C9 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
			W.W.T.		6.72
10:55 AM		6.70	6.70	—	6.71
11:20 S.			(6.69)		
12:40 P.			(6.65)		
1:00		6.64	6.64		
Weighted MGH			6.67		
GH Corr.					
Correct MGH					

Meter 0.9 ft. above bottom of weight
Spin before meas. OK after OK
Wading, cable, ice, boat, upstr., downstr., side bridge 2.70 feet, mile, above, below gage, and —
Chain, wire, found 58.70 at — G-Sta.
Changed to — at —
Correct length 58.68
Levels Obtained —
Measurement rated, excellent (2%), good (5%) fair (8%), poor (over 8%) based on following
Cross section Uniform
Flow Smooth Weather Fair
Other —
Gage OK
Record removed No Intakes flushed —
Pencil — Wt. Adj. — Paper —
Record — Chart time — Clock Reg. —
Observer —

Control Probably sandbar 6000' below gage

Remarks None

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 at 11:20 AM									
434		0		v=0			0	0		7	0
420	1	1.9		v=0			0	32		1.7	0
400	1	2.5	1.5	5	40		.29	50		20	14
380	1	2.2	1.3	15	56		.61	44		20	27
360	1	1.8	0.9	30	52		1.28	36		20	46
340		3.4	2.2	30	41		1.62	68		20	110
320		3.6	0.7	50	47	2.35	2.26	72		20	163
			2.7	40	41	2.16					
300		4.8	1.0	50	47	2.35	1.96	96		20	188
			3.8	30	42	1.58					
280		4.8	1.0	60	45	2.94	2.84	96		20	273
11:45			3.8	50	40	2.75					
260		5.3	1.1	60	40	3.30	3.02	93		17½	281
			4.2	50	40	2.75					
245		8.2	1.6	60	40	3.30	3.00	123		15	369
			6.6	50	41	2.69					
230		8.8	1.8	60	45	2.94	2.64	132		15	348
			7.0	50	47	2.35					
215		9.0	1.8	60	48	2.75	2.40	135		15	324
			7.2	40	43	2.06					
200		7.8	1.6	60	40	3.30	3.10	117		15	363
			6.2	80	61	2.89					
185		9.0	1.8	60	40	3.30	3.02	135		15	408
			7.2	50	40	2.75					

Page 2 of 3 Comp. by: RHD Checked by: W.D.R

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
170		8.7	1.7	80	51	3.45	3.38	109		12½	368
			7.0	60	40	3.30					
160		9.0	1.8	60	40	3.30	3.08	90		10	277
			7.2	60	46	2.87					
150		10.1	2.0	60	45	2.94	2.84	101		10	287
			8.1	50	40	2.75					
140		10.9	2.2	50	40	2.75	2.58	109		10	281
			8.7	50	46	2.40					
130		11.9	2.4	60	46	2.87	2.81	119		10	334
			9.5	50	40	2.75					76
120		13.0	2.6	60	41	3.22	2.89	130		10	363
			10.4	50	43	2.56					
110		13.1	2.6	60	41	3.22	2.89	131		10	379
			10.5	50	43	2.56					
100		13.0	2.6	60	41	3.22	2.86	130		10	372
			10.4	50	44	2.51					
90		11.9	2.4	60	47	2.81	2.53	119		10	301
			9.5	50	49	2.25					
80		8.0	1.6	30	45	1.48	1.40	80		10	112
			6.4	40	67	1.33					
70		0		v=0				0		5	0
		REW at 12:40						2347		364	5788
											6,001

Page 3 of 3 Comp. by: RHD Checked by: W.D.R