9-275 c
(July 1935) RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 373

Checked by RHD

Date 5-1-51

Water temp. 82 °F

Air temp. 89 °F

Time 2 p.m.

Brazos River at ~~Riverside~~ Richmond, Tex. WHG

Date Apr. 26, 1951 Party W. H. Goines

Width 119 Area 115 Vel. 1.25 G. H. 5 Disch. 144

Method 2-8 No. secs. 25 G. H. change .00 in ~~.6~~ hrs. Susp. Rod

Method coef. 1.00 Hor. angle coef. As noted Meter No. 1153 Susp. coef. 1.00

GAGE READINGS Tape

Time		Recorder	~~Inside~~	Outside
12:25 p.m.			0.32+	0.32± 0.05 (wind)
1:13	Start		(.33)	
1:45	Finish		(.33+)	
2:15			0.34	0.30
	USWB-W-wt			±0.1 (wind)
	~~Finish~~			
~~Weighted~~ M. G. H.			0.33	
G. H. correction				
Correct M. G. H.				

Date rated 11-16-44 Used rating for rod Rod susp. Meter — ft. above bottom of wt. Tags checked —

Spin before meas. ok after ok

Meas. plots — % diff. from — rating

Wading, ~~cable, ice, boat, upstr., downstr., side~~ bridge 2 feet, mile, above, below gage, and 1000 ft. below control.

~~Chain~~, wire, found 58.69, changed to no at —

Correct length 58.68

Levels obtained —

Measurement rated ~~excellent (2%)~~, good (5%), ~~fair (8%), poor (over 8%)~~, based on following conditions: Cross section Uniform

Flow Smooth Weather Hot

Other —

Gage ok

Record removed No Intake flushed No

Observer

Control Well defined gravel bar, width about 150 ft and mean depth 0.3 or 0.4 ft. About ½ ft. fall through control.

Remarks Chk bar by dial & location of control indicates sta location as Richmond, Tx

Rising 0.01 ft/hr.

Sheet No. 1 of 3 sheets. G. H. of zero flow 0.33-.5 = -0.17 ± 0.1 ft.

U. S. GOVERNMENT PRINTING OFFICE 6—7440

80 • 75 •

0.1 ft - gh - 0.5 ± 0.1

1pm

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

9-275
January 1935

Date 4/24/51, 19__ **DISCHARGE MEASUREMENT NOTES**

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 vertical	VELOCITY: Mean in section	Area	Mean depth	Width	Discharge
REW 3		0						0	0	0	3½	0
10		.3	.18	7	43			.38	1.80		6	.7
15	⊥	.5	.30	20	44			1.02	2.50		5	2.6
20	99	.8	.48	25	45			1.24	3.96	4.0	5	4.9
25	⊥	1.2	.72	30	44			1.52	6.00		5	9.1
30	99	1.5	30	40	48	1.85		1.65	7.42	7.5	5	12.2
			1.20	30	46	1.45						
35	⊥	1.5	.30	40	47	1.89		1.70	7.50		5	12.8
			1.20	30	44	1.52						
40	99	1.6	32	40	46	1.93		1.68	7.92	8.0	5	13.3
			1.28	30	47	1.42						
45	⊥	1.6	32	30	42	1.59		1.42	8.00		5	11.4
			1.28	25	45	1.24						
50	⊥	1.7	34	25	48	1.17		1.08	8.50		5	9.2
			1.36	20	46	.98						
55	⊥	1.8	36	20	41	1.09		.93	9.00		5	8.4
			1.44	15	44	77						
60		1.4	84	20	46			.98	7.00		5	6.9

No. 2 of 3 Sheets. Comp. by WHG Chk. by RHD

U. S. GOVERNMENT PRINTING OFFICE 16—26076-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

9-275
January 1935

Date 2/26/51, 19__ **DISCHARGE MEASUREMENT NOTES**

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 vertical	VELOCITY: Mean in section	Area	Mean depth	Width	Discharge
65	⊥	.9	.54	20	41			1.09	4.50		5	4.9
70	.98	.7	.42	25	44			1.27	3.43	3.5	5	4.4
75	.97	.6	.36	25	44			1.27	2.91	3.0	5	3.7
80	.96	.6	.36	25	46			1.22	2.88	3.0	5	3.5
85	.98	.6	.36	25	46			1.22	2.94	3.0	5	3.6
90	⊥	.6	.36	25	44			1.27	3.00		5	3.8
95	⊥	.8	.48	25	45			1.24	4.00		5	5.0
100	⊥	.9	.54	25	47			1.19	4.50		5	5.4
105	⊥	1.1	.66	25	46			1.22	5.50		5	6.7
110		1.1	.66	25	46			1.22	5.50		5	6.7
115		.8	.48	20	42			1.07	4.00		5	4.3
120		.5	.30	7	46			.36	1.75		3½	.6
122		0						0	0		1	0

LEW

No. 3 of 3 Sheets. Comp. by WHG Chk. by RHD

1:45 p.m.

U. S. GOVERNMENT PRINTING OFFICE 16—26076-1