9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 308

Checked by ES

Date 8-12-47

Brazos River at Richmond, Tex.

Date Aug. 11, 1947 Party W.H. Goines

Width 325 Area 478 Vel. 1.65 G. H. ____ Disch. 786

Method 2-8 No. secs. 21 G. H. change +0.01 in .5 hrs. Susp. Rod

Method coef. 1.00 Hor. angle coef. As Noted Meter No. 1950 Susp. coef. 1.00

GAGE READINGS

Time		Recorder	~~Inside~~ Tape	Outside
1:45 p.m			2.38-	2.36
2:30	~~Start~~	2.38		
2:40	Start	2.47		
3:00		2.48		
3:12	Finish	(2.48)		
4:00 p.m		2.50+	2.50+	2.51
	~~Finish~~		U.S.W.B. W-Wt	A
~~Weighted~~ M. G. H.		2.48		
G. H. correction				
Correct M. G. H.				

Date rated Oct. 3 1944 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 near control ~~Chain~~, wire, found 58.62, changed to no at ____ Correct length 58.62 Levels obtained no

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

Flow Smooth Weather Local shower during meas.

Other –

Gage ok

Record removed No Intake flushed No

Observer –

Control clean

Remarks Rising 0.01 ft/hr.

Sheet No. 1 of 3 sheets. G. H. of zero flow – ft.

Rem 2:30 pm.

1:45 p.m
T 2.38
O 2.36
meas down.

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 8/11/47, 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
2:40 WR		1950	2 mi	below.								
REN 5		.3	V = 0					0	2.2		7½	0
20		.9	V= 0					0	11.2		12½	0
30	1	1.0	.60	10	50			.45	15.0		15	7.8
50		1.2	.72	15	43			.78	24.0		20	18.7
70	99	1.6	32	30	42	1.57		1.44	31.7	32°	20	45.6
			1.28	25	42	1.31						
90	98	1.4	84	40	48			1.83	27.4	28°	20	50.1
110	.98	1.2	.72	40	53			1.66	20.6	21°	17½	34.2
125	99	1.7	34	25	45	1.23		1.10	25.2	25°	15	27.7
			1.36	20	46	.96						
140	99	2.1	.4	50	46	2.38		2.12	31.2	31°	15	66.1
			1.7	40	47	1.87						
155	98	2.4	.5	50	47	2.33		2.14	35.3	36°	15	75.5
			1.9	40	45	1.95						
170	99	2.5	.5	50	46	2.38		2.16	37.1	37°	15	80.0
			2.0	40	45	1.96						
185	99	2.4	.5	40	43	2.04		1.71	35.6	36°	15	60.9
			1.9	30	48	1.38						

No. 2 of 3 Sheets. Comp. by W. H. G. Chk. by

Recorder
3:00 2.48
2:30 2.38
2:40 2.47

58.62

w.w.t
2.51
T 2.50+
4:00
p.m

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

9-275
January 1935

Date 8/11/47, 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	Corr Area	Mean depth Area	Width	Discharge
200	⊥	2.2	.4	40	44	2.00		1.82	33.0		15	60.6
			1.8	30	40	1.65						
215	⊥	1.7	.34	40	41	2.14		2.02	25.5		15	51.5
			1.36	40	46	1.91						
230	⊥	1.9	.4	40	48	1.83		1.74	28.5		15	49.6
			1.5	30	40	1.65						
245	⊥	2.0	.4	50	50	2.19		1.91	30.0		15	57.3
			1.6	40	54	1.63						
260	⊥	1.6	.32	40	41	2.14		2.02	24.0		15	48.5
			1.28	40	46	1.91						
275		1.5	.90	30	41			1.61	22.5		15	36.2
290		.8	.48	20	45			.98	12.0		15	11.8
305		.3	.18	15	48			.70	6.0		20	4.2
330 LEW		0						0	0		12½	0
									478.0		325	~~786.3~~ 785.8

3:12 p.m.

No. 3 of 3 Sheets. Comp. by W.H.G. Chk. by

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