9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 244

Checked by MKH

Date 7-21-44

Brazos River at Richmond, Tex.

Date May 7, 1944 Party Goines and Longacre

Width 456 Area 15,800 Vel. 5.90 G. H. _____ Disch. 93,200

Method 2 No. secs. 24 G. H. change +0.05 in 0.8 hrs. Susp. 100 c/o

Method coef. 93 Hor. angle coef. as Noted Meter No. 1705 Susp. coef. 1.00

GAGE READINGS

Time	C. W. T.	Recorder	Inside (Tape)	Outside
2:55 p.m.		33.35	33.35	33.3 ± 0.1
3:25	Start		(33.38)	
4:10	Finish		(33.43)	
4:30		33.45	33.45	33.4 ±0.05
	~~Finish~~			
Weighted M. G. H.			33.40	
G. H. correction				
Correct M. G. H.				

Date rated Apr. 9, 1942 Used rating for rod Rod susp. Meter 1.0 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~~ 270 feet, ~~mile, above,~~ below gage, and —

Chain, wire, found —, changed to — at —

Correct length —

Levels obtained no

Measurement ~~rated excellent (2%)~~, good (5%), to fair (8%), ~~poor (over 8%)~~, based on following conditions: Cross section See x-sect. attached to meas. 5/3/44

Flow Smooth Weather Favorable

Other

Gage ok

Record removed No Intake flushed No

Observer —

Control Channel

Remarks Rising 0.06 ft/hr.

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

U. S. GOVERNMENT PRINTING OFFICE 6—7440

80 • 75 •

T ↘ 33.35
o 33.3 ± 0.1 2:55 pm

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

9-275
January 1935

85 •

Date 5/7/44, 19___ **DISCHARGE MEASUREMENT NOTES**

90 • Brazos River, at Richmond, Tex.

3.25

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	Uncorr. area ~~Mean depth~~	Width	Discharge
LEW 503		0						0	0		11½	0
480	.97	13.2	2.6	40	55			1.64	339	350	26½	560
450	⊥	24.1	4.8	80	52			3.45	667		27½	2300
425		35.8	7.2	80	49			3.66	895		25	3280
400		38.2	7.6	100	45			4.98	860		22½	4280
380	⊥	40.5	8.1	150	55			6.10	810		20	4940
360		* 41.3	7.0	150	53			6.33	826		20	5230
340		40.8	6.6	150	51			6.58	816		20	5370
320		40.2	6.7	150	49			6.85	804		20	5500
300		41.2	6.8	150	47			7.14	824		20	5870
280		41.6	6.9	75	23			7.29	832		20	6060
260		40.7	7.1	150	47			7.14	814		20	5800

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

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

75 • * See X-Sect attached to meas. 5/8/44

80 • 75 •

Tp) 3345
0 33.4 ± 0.05

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

9-275
January 1935

85 •

Date 5/7/44, 19___ **DISCHARGE MEASUREMENT NOTES**

3:50

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
240		40.9	7.2	150	44			7.62	818		20	6230
220		40.6	7.3	150	45			7.45	812		20	6050
200	⊥	41.0	7.3	150	45			7.45	820		20	6110
180		42.6	7.4	150	46			7.29	852		20	6210
160		40.9	7.5	150	46			7.29	818		20	5950
140		40.8	7.4	150	50			6.71	816		20	5470
120	⊥	41.4	7.7	150	49			6.85	725		17½	4960
105		39.9	7.2	150	50			6.71	499		12½	3350
95		35.4	6.3	150	52			6.45	443		12½	2860
80		27.4	5.4	150	54			6.21	411		15	2560
65		17.4	5.5	100	51			4.39	288		16½	1260
47		0						0	15789		9	0
REW												
		From discharg relation curve										100,200
		coeff. to convert $Q_{.2}$ to $Q_{.2:8}$ = 0.93										x .93
												93,186

4:10

No. 3 of 3 Sheets. Comp. by WHG JKL Chk. by MYP

75 •

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