9-275 c
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Meas. No. 290

Checked by JDY

Date 6/17/46

RECORDED

DISCHARGE MEASUREMENT NOTES

Brazos River at Richmond, Tex.

Date May 25, 1946 Party Goines & Fry

Width 115 Area 822.20 Vel. 3.13 G. H. 16.89 Disch. 25,700

Method 2 No. secs. 24 G. H. change .06 in 8 hrs. Susp. 100 cl.

Method coef. .93 Hor. angle coef. noted Meter No. 1791 Susp. coef. 1.00

GAGE READINGS

Time	G. W. T.	Recorder	Inside	Outside
2:30pm		17.00	16.98	17.02
3:10	Start		(16.92)	
4:00	Finish		(16.86)	
4:32pm		16.81	16.83	16.95
	Finish			
Weighted M. G. H.			16.81	
G. H. correction				
Correct M. G. H.				

Date rated June 4, 1913 Used rating

for 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 ____

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

Flow smooth Weather fair, hot

Other No wind

Gage ok

Record removed NO Intake flushed NO

Observer —

Control channel

-.08

Remarks RATE OF CHANGE IN STAGE: -.07 ft./HR.

R. bank continues to shuff-off.

Sheet No. 1 of 1 sheets. G. H. of zero flow — ft.

U. S. GOVERNMENT PRINTING OFFICE 6—7440

80 • 75 •

F 16.98
P 17.00
O 11.02702

9-275
January 1935

2:20 pm.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

85 •

Date 5/25/46, 19__ **DISCHARGE MEASUREMENT NOTES**

Dist to W.S. 90 •

Brazos River, at Richmond, Tex.

92 • 11:10

94 •

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
LEW 473		0						0	0		6½	0
460		7.7	1.5	5	43			1.28	127		16½	36 ~~40~~
440		15.5	3.1	25	48			1.20	310		20	372
420		20.7	4.1	25	48			1.20	414		20	497 ~~500~~
400	⊥	21.8	4.4	50	55			2.09	436		20	910
380		21.4	4.3	50	52			2.21	428		20	946
360		21.0	4.2	80	48			3.81	420		20	1600
340	⊥	20.3	4.1	80	50			3.66	406		20	1490
320		21.5	4.3	80	48			3.81	430		20	1640
300	99	21.8	4.4	80	46			3.98	432	436	20	1720
280	99	23.0	4.6	80	43			4.25	455	460	20	1940
260	99	23.4	4.7	80	40			~~4.75~~ 4.57	463	468	20	~~2200~~ 2120

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

75 •

U. S. GOVERNMENT PRINTING OFFICE 6—7682

80 • 75 •

T 16.83
P 81
O 85±
05
2:32 pm

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

85 •

Date 5/25/46, 19__ DISCHARGE MEASUREMENT NOTES

Brazos River, at Richmond, Tex.

90 •

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	⊥	23.3	4.7	100	51			4.48	466		20	2,090
→	3:35											
220	⊥	22.3	4.5	100	49			4.66	446		20	2,080
200		21.4	4.3	100	51			4.48	428		20	1920
180	⊥	20.9	4.2	80	47			3.89	418		20	1630
160		21.1	4.2	80	46			3.98	422		20	1680
140		22.9	4.6	60	44			3.13	458		20	1430
120		25.0	5.0	60	44			3.13	500		20	1560
100		22.3	4.5	80	50			3.66	334		15	1220
90		18.3	3.7	60	40			3.43	229		12½	785
75		11.4	2.3	V=	0			0	142		12½	0
		Negative flow ↓										
65		6.1	1.2	15	51			-.68	52		8½	-35 ~~-40~~
58		0	V=0				0	0	0		3½	0
REW									8,216		415	

33.3 · 33.6 · 34.2 · 34.8 · 35.5 · 36.3 · 37.5 · 38.6 · 39.3 · 40.6 · 41.4

C = .93

.93 × 27,~~700~~ 631 = ~~25,767~~ 25,697

~~27,700~~ 27,631

From 1943 Curve
C = Q2/Q2.8

4:00

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

75 •

U. S. GOVERNMENT PRINTING OFFICE 6—7682