9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 294
Checked by SDB
Date 9/10/46

Brazos River at Richmond, Tex.

Date Aug. 12, 1946 Party Fay & Goines

Width 258 Area 516 Vel. 1.72 G. H. 3.09 Disch. 885

Method 2-8 No. secs. 28 G. H. change 0.00 in 0.8 hrs. Susp. Rod

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

GAGE READINGS Tape

Time	W. I.	Recorder	Inside	Outside
9:30 a.m.			3.08	3.07
1:50 p.m.	Start		3.08+	3.08
2:45	Start		(3.09)	
3:35	Finish		(3.09)	
4:10 p.m.			3.10-	3.08± .01
U.S.W.B.	Finish	W-wt Gage.		
9:30 a.m.				3.03
Weighted M. G. H.			3.09	
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~~ 1/2 ~~feet~~, mile, ~~above~~, below gage, and at control.

~~Chain~~, wire, found 58.58, changed to no at

Correct length 58.57

Levels obtained

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

Flow Smooth Weather Hot

Other —

Gage ok see sheet 5

Record removed Yes Intake flushed No

Observer —

Control clean - gravel riffle.

Remarks RATE OF CHANGE IN STAGE: 0.00 ft./HR.

Sheet No. 1 of 5 sheets. G. H. of zero flow ft.

U. S. GOVERNMENT PRINTING OFFICE 6—7440

9-275
September 1943

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 8/12/46, 19___ **DISCHARGE MEASUREMENT NOTES**

Brazos River at Richmond, Tex.

Angle coefficient

2:45 p.m.

Dist. from initial point	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY: At point	VELOCITY: Mean in vertical	VELOCITY: Mean in section	Area	Mean depth	Width	Discharge
REW											
5			V=	0			0	0		2½	0
10	1.2		V=	0			0	9.0		7½	0
20	1.3	.78	30	47			1.41	13.0		10	18.3
30	1.8	.36	40	50	1.76		1.56	18.0		10	28.1
		1.44	30	49	1.35						
40	1.9	.38	40	46	1.91		1.63	19.0		10	31.0
		1.52	30	49	1.35						
50	2.1	.4	50	54	2.03		1.70	21.0		10	35.7
		1.7	30	48	1.38						
60	2.0	.4	50	54	2.03		1.76	20.0		10	35.2
		1.6	30	44	1.50						
70	2.4	.5	50	52	2.11		1.84	24.0		10	44.2
		1.9	40	56	1.57						
80	2.1	.4	50	48	2.29		1.94	21.0		10	40.7
		1.7	40	55	1.60						
90	2.4	.48	50	49	2.24		1.95	24.0		10	46.8
		1.92	40	53	1.66						
100	2.3	.46	50	48	2.29		1.99	23.0		10	45.8
		1.84	40	52	1.69						
110	2.5	.50	50	46	2.38		2.16	25.0		10	54.0
		2.00	40	45	1.95						

No. 2 of 5 Sheets, Comp. by W.H.G. Chk. by SDB

U. S. GOVERNMENT PRINTING OFFICE 16—26076-2

9-275
September 1943

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 8/12/46, 19__ **DISCHARGE MEASUREMENT NOTES**

Brazos River at Richmond, Tex.

Angle coefficient

Dist. from initial point	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY: At point	VELOCITY: Mean in vertical	VELOCITY: Mean in section	Area	Mean depth	Width	Discharge
120	2.6	.52	50	47	2.33		2.10	26.0		10	54.6
		2.08	40	47	1.87						
130	3.0	.60	50	48	2.29		2.00	30.0		10	60.0
		2.40	40	51	1.72						
140	2.7	.54	50	52	2.11		1.97	27.0		10	53.2
		2.16	40	48	1.83						
150	2.8	.56	50	52	2.11		1.86	28.0		10	52.0
		2.24	40	55	1.60						
160	2.8	.56	40	44	2.00		1.75	28.0		10	49.0
		2.24	30	44	1.50						
170	2.3	.46	50	54	2.03		1.88	23.0		10	43.2
		1.84	40	51	1.72						
180	2.5	.50	40	51	1.72		1.55	25.0		10	38.8
		2.00	30	48	1.38						
190	2.0	.40	40	45	1.95		1.74	20.0		10	34.8
		1.60	30	43	1.54						
200	2.2	.44	40	48	1.83		1.60	22.0		10	35.2
		1.76	30	48	1.38						
210	2.0	.40	40	50	1.76		1.58	20.0		10	31.6
		1.60	30	47	1.41						
220	1.7	.34	40	56	1.57		1.37	17.0		10	23.3
		1.36	25	47	1.17						
230	1.4	.84	20	41			1.08	14.0		10	15.1

No. 3 of 5 Sheets, Comp. by W.H.G. Chk. by SDB

U. S. GOVERNMENT PRINTING OFFICE 16—26076-2

9-275
September 1943

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 8/12/46, 19__ **DISCHARGE MEASUREMENT NOTES**

Brazos River at Richmond, Tex.

Angle coefficient

Dist. from initial point	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY: At point	VELOCITY: Mean in vertical	VELOCITY: Mean in section	Area	Mean depth	Width	Discharge
240	.9	.54	20	46			.96	9.0		10	8.7
250	.8	.48	15	49			.68	8.0		10	5.4
260	.3	.15	7	.52			.30	2.0		6½	.6
263	0						0	0		1½	0
LEW											
3:35pm								516.0			885.3

No. 4 of 5 Sheets, Comp. by NHG. Chk. by SDB

U. S. GOVERNMENT PRINTING OFFICE 16—26076-2

9-275 d
(Sept., 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 8/12/46, 19____ No. of Meas.____

SUPPLEMENTARY DISCHARGE MEASUREMENT NOTES

Brazos River at Richmond, Tex.

Enter on this form ample notes in regard to the following:

1. Accuracy of measurement; 2, gage; 3, observer; 4, bench marks; 5, gage-height corrections; 6, adjustments to total discharge; 7, station equipment; 8, channel, control, and point of zero flow; 9, rating, backwater; 10, diversions, regulation; 11, records; 12, cooperation.

Recorder Inspection

Pencil Turq. 3B : Record clear
Wt. Adj. no : Chart time
Paper dry : Clock Reg.

Installed new hinges (not galvanized) on clean-out door. Hinges, door and lower braces show considerable rust. Door, hinges and door frame were given one coat of rust-proof paint.

Found lock on clean-out door gone, installed new bronze lock.

Next visit repair cable car reel mount.

No. 5 of 5 sheets

6—6226 U. S. GOVERNMENT PRINTING OFFICE