9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 26-3

Checked by NAB

Date 6-19-45

Brazos River at Richmond Tex.

Date March 19, 1945 Party W. H. Goines

Width 405 Area 70.80 Vel. 4.34 G. H. 16.92 Disch. 30,500

Method 2-8 No. secs. 25 G. H. change -0.05 in 1.2 hrs. Susp. 100cl.0

Method coef. 1.00 Hor. angle coef. 1.00 Meter No. ~~1705~~ 1791 Susp. coef. 1.00

GAGE READINGS				
Time	W. T.	Recorder	~~Inside~~	Outside
9:10 a.m.		17.00	17.00	17.1±0.1
9:30	~~Start~~	16.98	16.98	–
10:15	Start		(16.95)	
11:30	Finish		(16.90)	
12:15 p.m.		16.87	16.87	16.95±0.1
	~~Finish~~			
9:10 a.m.	U.S.W.B.	W.wt.	17.09	
~~Weighted~~ M. G. H.			16.92	
G. H. correction				
Correct M. G. H.				

Tape

Date rated June 4, 1943 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 58.58, changed to no at –

Correct length 58.57

Levels obtained no

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

Flow Smooth Weather Strong upstr. wind

Other –

Gage ok

Record removed Yes Intake flushed No

Observer –

Control Channel

Remarks Falling 0.04 ft./hr.

Sheet No. 1 of 4 sheets. G. H. of zero flow ____ ft.

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80 • 75 •

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

9-275
January 1935

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Date 3/19/45, 19__ **DISCHARGE MEASUREMENT NOTES**

Brazos River, at Richmond, Tex.

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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
				100	c 1.0		1791		str. upst. wind.			
LEW 470		0						0	0		5	0
460		3.5	2.1	25	58			1.00	44		12½	~~40~~ 44
445	⊥	7.3	1.5	40	52	1.77		1.62	110		15	~~180~~ 178
			5.8	30	47	1.47						
430		12.3	2.5	50	46	2.50		2.34	185		15	43~~0~~3 ◎
			9.8	40	42	2.19						
415	⊥	14.2	2.8	60	44	3.13		2.84	213		15	60~~0~~5
			11.4	50	45	2.55	568					
400		15.7	3.1	80	48	3.81		3.54	274		17½	970
			12.6	60	42	3.27						
380		17.0	3.4	100	50	4.57		3.96	340		20	1350
			13.6	60	41	3.35	792					
360		17.2	3.4	100	48	4.76		4.28	344		20	1470
			13.8	80	48	3.81	57					
340		17.2	3.4	100	45	5.07		4.71	344		20	1620
			13.8	80 80	42 42	4.35 4.35	942					
320		18.1	3.6	100	42	5.43		4.89	362		20	1770
			14.4	80	42	4.35	978					
300		19.6	3.9	100	42	5.43		4.89	392		20	1920
			15.7	80	42	4.35						
280		20.2	4.0	100	42	5.43		4.89	404		20	1980
			16.2	80	42	4.35						

No. 2 of 4 Sheets. Comp. by W. H. G. Chk. by NOB

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9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 3/19/45, 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
260		20.1	4.0	100	40	5.71		5.03	402		20	2020
			16.1	80	42	4.35						
240		21.1	4.2	150	61	5.61		5.18	422		20	2190
			16.9	100	48	4.76						
220		20.1	4.0	150	58	5.90		5.43	402		20	2180
			16.1	100	46	4.96						
200		21.2	4.2	150	60	5.71		5.24	424		20	2220
			17.0	100	48	4.76						
180		21.9	4.4	100	42	5.43		4.92	383		17½	1880
			17.5	100	52	4.40						
165		21.5	4.3	100	44	5.19		4.77	322		15	1540
			17.2	80	42	4.35						
150		22.1	4.4	100	52	4.40		4.00	334		15	1320
			17.7	80	51	3.59						
135		23.5	4.7	80	45	4.07		3.70	352		15	1300
			18.8	80	55	3.32						
120		24.0	4.8	80	50	3.66		3.52	360		15	1270
			19.2	80	54	3.39						
105		22.1	4.4	80	48	3.81		3.78	276		12½	1040
			17.7	80	49	3.74						
95		18.2	3.6	80	42	4.35		3.70	228		12½	840
			14.6	60	45	3.06						
80		10.9	2.2	60	48	2.87		2.29	164		15	380
			8.7	40	54	1.71						
65 REW		0						0	0		7½	0

No. 3 of 4 Sheets. Comp. by W.H.G. Chk. by

9-275 d
(Sept., 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 3/19/45, 19__ No. of Meas.

SUPPLEMENTARY DISCHARGE MEASUREMENT NOTES

Brazos R. 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 Dixon 2B : Record clear

Wt. Adj. no : Chart time 15m F

Paper dry : Clock Reg. no

Wood floor of cableear is rotten and should be replaced

Need 2 - 1"x8"x4'-0" floor width 23¾

2 - 1"x6"x22"

2 - 1"x6"x44"

Plan to get lumber locally

No. 4 of 4 sheets

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