9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 231

Checked by W.H.

Date 12-18-43

Brazos River at Richmond, Tex.

Date Nov. 17, 1943 Party W. H. Goines

Width 227 Area 442 Vel. 1.78 G. H. 2.48 Disch. 786

Method 2-8 No. secs. 24 G. H. change -0.01 in 0.8 hrs. Susp. Rod

Method coef. 1.00 Hor. angle coef. Noted Meter No. 1765 Susp. coef. 1.00

GAGE READINGS				
Time	C. W. T.	Recorder	~~Inside~~ Tape	Outside
12:05 p.m.			2.52	2.53
1:00	~~Start~~	2.51	2.51	—
1:45	Start	2.49		
2:30	Finish	2.48		
3:45 p.m.		2.47+	2.47+	2.47
	~~Finish~~			
U.S.W.B.M. wt. Gage				
12:00				2.47
~~Weighted~~ M. G. H.		2.48		
G. H. correction				
Correct M. G. H.				

Date rated June 4, 1943 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 58.58, 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 Uniform and smooth

Flow Smooth Weather Favorable

Other —

Gage ok

Record removed Yes Intake flushed —

Observer —

Control clean

Remarks Falling 0.01 ft./hr.

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

U. S. GOVERNMENT PRINTING OFFICE 6—7440

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 11-17-43, 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	uncorr. area Mean depth	Width	Discharge
Comp. by mid-sect. method								Horiz. & coeff. applied to area				
REW 5		0.1	V=0					0	.2		2½	0
10		.2	V=⅓ of 20					29	1.5		7½	4.3
20	.98	1.0	.6	20	52			.86	9.8	10.0	10	8.4
30	.99	1.9	.4	40	48	1.84		1.70	18.8	19.0	10	31.9
			1.5	40	57	1.55						
40	⊥	2.1	.4	40	47	1.88		1.73	21.0		10	36.3
			1.7	40	56	1.58						
50	⊥	2.2	.4	50	46	2.39		2.10	22.0		10	46.2
			1.8	40	49	1.80						
60		2.2	.4	60	54	2.44		2.12	22.0		10	46.7
			1.8	40	49	1.80						
70	⊥	1.7	.34	50	44	2.50		2.12	17.0		10	36.0
			1.36	40	51	1.73						
80	.99	1.8	.4	50	43	2.55		2.20	17.8	18.0	10	39.1
			1.4	40	48	1.84						
90	.99	2.6	.5	40	47	1.88		1.68	25.7	26.0	10	43.2
			2.1	30	45	1.47						
100	⊥	2.5	.5	25	50	1.11		1.07	25.0		10	26.8
			2.0	25	54	1.03						
110	⊥	2.6	.5	40	54	1.63		1.60	26.0		10	41.7
			2.1	30	42	1.58						

Dist. 200 ft

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

9-275
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WATER RESOURCES BRANCH

Date 11-17-43, 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 area, [redacted]	Width	Discharge
120	⊥	3.2	.6	50	46	2.39		2.16	32.0		10	69.1
			2.6	40	46	1.92						
130		3.4	.7	50	42	2.61		2.36	34.0		10	80.3
			2.7	40	42	2.10						
140	⊥	3.0	.6	50	46	2.39		2.24	30.0		10	67.2
			2.4	40	42	2.10						
150		2.8	.6	50	50	2.20		2.02	28.0		10	56.5
			2.2	40	48	1.84						
160	⊥	2.8	.6	40	46	1.92		1.78	28.0		10	49.8
			2.2	40	54	1.63						
170		2.7	.5	40	50	1.76		1.57	27.0		10	42.4
			2.2	30	48	1.38						
180	⊥	2.0	.4	30	42	1.58		1.34	20.0		10	26.8
			1.6	25	50	1.11						
190		1.6	.96	25	48			1.16	16.0		10	18.6
200	⊥	1.1	.66	15	40			.84	11.0		10	9.2
210		.7	.42	15	54			.63	7.0		10	4.4
220		.2	V = 1/2 q		210			.32	2.2		11	.7
232		0						0	0		6	0
LEW											227	
									442.0			785.6

2.30 p.m.

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

9-275 d
(Sept., 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 11-17-43, 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	Turq. 38	: Record	clear
Wt. Adj.	no	: Chart time	1h 15m F
Paper	dry	: Clock Reg.	1 div sl.
Pen	Stevens chard ink		

Installed o.G 0.0-3.3, set from sect. above by steel tape.

Well is clean.

Installed new roll Stevens Recorder paper, last 10d marked.

No. 4 of 4 sheets

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