9-275 c
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

RECORDED

DISCHARGE MEASUREMENT NOTES

Meas. No. 227

Checked by RWB

Date 9.7.43

Brazos River at Richmond Tex.

Date July 1, 1943 Party W.H. Goines 4

Width 252 Area 1420 Vel. 0.80 G. H. — Disch. 1130

Method 2-8 No. secs. 24 G. H. change -0.01 in 1.0 hrs. Susp. 306.5

Method coef. 1.00 Hor. angle coef. 1.00 Meter No. 17105 Susp. coef. 1.005

GAGE READINGS				
Time		Recorder	Inside	Outside
4:10 pm				3.13
5:20	Start			(3.11)
6:20	Finish			(3.10)
6:50				3.09± 0.03
	Finish		Tape	
4:15pm		7.16	7.16	—
Weighted M. G. H.				3.10
G. H. correction				
Correct M. G. H.				

Date rated Apr. 9, 1943 Used rating for rod Rod susp. Meter 0.5 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 58.57+, 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 Hot

Other —

Gage W-wt ok - Recorder ok for stages above 10± ft.

Record removed Yes Intake flushed No

Observer —

Control channel

Remarks Falling 0.01 ft/hr.

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

9-275
January 1935

UNITED STATES
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GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 7-1-43, 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 depth	Width	Discharge
		Comp by mid-sect. method:										
REW 90		0						0	0		2½	0
95		2.3	1.4	5	61			.20	11.5		5	2
100		5.0	1.0	10	51	.46		.48	25.0		5	12
			4.0	10	47	.49						
105		6.7	1.3	15	62	.56		.57	33.5		5	19
			5.4	10	40	.58						
110		8.0	1.6	15	52	.66		.64	60.0		7½	38
			6.4	15	56	.62						
120		9.8	2.0	15	44	.78		.72	98.0		10	70
			7.8	15	52	.66						
130		8.8	1.8	15	44	.78		.75	88.0		10	66
			7.0	15	48	.72						
140		7.9	1.6	20	54	.85		.82	79.0		10	64
			6.3	15	44	.78						
150		8.0	1.6	20	47	.97		.85	80.0		10	68
			6.4	15	47	.73						
160		7.9	1.6	20	44	1.03		.94	79.0		10	74
			6.3	15	40	.86						
170		7.9	1.6	20	46	1.01		.94	79.0		10	74
			6.3	20	52	.88						
180		7.5	1.5	20	44	1.03		.96	75.0		10	72
			6.0	20	51	.90						

No. 2 of 4 Sheets. Comp. by WHG. Chk. by

80 • 75 •

3.09 ± 0.02
6:50 pm

9-275
January 1935

85 •

UNITED STATES
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GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 7-1-43, 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
190		7.0	1.4	20	47	.97		.94	70.0		10	66
			5.6	20	50	.91						
200		6.4	1.3	20	42	1.08		.93	64.0		10	60
			5.1	15	44	.78						
210		6.7	1.3	20	49	93		.90	67.0		10	60
6:00 pm			5.4	20	53	.86						
220		6.2	1.2	20	45	1.01		.88	62.0		10	54
			5.0	15	46	.75						
230		5.7	1.1	20	48	95		.80	57.0		10	46
			4.6	15	52	.66						
240		5.1	1.0	20	45	1.01		.88	63.8		12½	56
			4.1	15	46	.75						
255		4.8	1.0	20	46	.99		.87	72.0		15	63
			4.8	15	46	75						
270		4.7	.9	20	49	93		.80	70.5		15	56
			3.8	15	52	.66						
285		4.1	.8	15	42	.82		.72	61.5		15	44
			3.3	15	55	.63						
300		4.0	.8	15	49	.70		.63	70.0		17½	44
			3.2	10	41	.56						
320		2.4	1.4	10	56			42	50.5		21	21
342		0						0	0		11	0
LEW												1127
									1416.2		252	1.005
												1136

No. 3 of 4 Sheets. Comp. by WHG. Chk. by [illegible]

75 •

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9-275 d
(Sept., 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 7-1-43, 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.

Pen Stevens Chart Ink

Recorder inspection

Pencil Tung 3B : Record clear

Wt. Adj. no : Chart time 30m F

Paper dry : Clock Reg. no

Found and left 3.0 ft mud in well

No. 4 of 4 sheets

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