9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 226

Checked by EWS

Date 7.7.43

Brazos River at Richmond, Tex.

Date May 24, 1943 Party W. H. Goines

Width 269 Area 1620 Vel. 1.25 G. H. — Disch. 2,020

Method 6-8 No. secs. 21 G. H. change 0.00 in 0.8 hrs. Susp. 200.5

Method coef. 1.00 Hor. angle coef. As Noted Meter No. 1705 Susp. coef. 1.005

GAGE READINGS				
Time		Recorder	Inside	Outside
3:50 p.m.				4.32
4:10	Start	W-wt.		4.32
5:15	Start	Gage		
6:05	Finish			
6:35 p.m.				4.32
	Finish			
Weighted M. G. H.				4.32
G. H. correction				
Correct M. G. H.				

Date rated Apr. 9, 1942 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

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

Flow Smooth Weather Favorable

Other —

Gage W-wt. gage ok, recorder will function above about 10 ft. Record removed Yes Intake flushed No

Observer —

Control channel

Remarks Constant stage

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 5/24/43, 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
REW 88		0						0	0		3½	0
95		3.2	.6	7	55	.30		.32	27		8½	9
			2.6	7	47	.35						
105		7.5	1.5	20	52	.88		.85	75		10	64
			6.0	15	42	.82						
115		10.4	2.1	25	52	1.09		1.10	104		10	114
			8.3	20	41	1.11						
125	⊥	10.1	2.0	20	44	1.03		1.00	101		10	101
			8.1	20	47	.97						
135		9.0	1.8	20	45	1.01		1.00	90		10	90
			7.2	20	46	.99						
145		8.8	1.8	30	57	1.19		1.12	110		12½	123
			7.0	20	43	1.06						
160		9.1	1.8	30	42	1.61		1.48	136		15	201
			7.3	30	50	1.36						
175	⊥	8.7	1.7	40	54	1.67		1.45	130		15	188
			7.0	25	46	1.23						
190		8.3	1.7	40	55	1.64		1.39	124		15	172
			6.6	25	50	1.14						
205	.99	7.4	1.5	40	51	1.77		1.55	110	1.1	15	170
			5.9	30	51	1.33						
220	.99	7.0	1.4	40	53	1.70		1.56	104	105	15	162
			5.6	30	48	1.41					139½	

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

80 • 75 •

4.32 6:35 pm

9-275
January 1935

85 •

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 5/24/43, 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 (139½ / 129½ / 269)	Discharge
235	.99	6.5	1.3	30	42	1.61		1.38	97	98	15	135
			5.2	25	49	1.16						
250	.99	5.8	1.2	30	42	1.61		1.41	86	87	15	121
			4.6	25	47	1.21						
265	.99	5.0	1.0	40	57	1.58		1.40	74	75	15	104
			4.0	30	56	1.21						
280	.99	4.7	.9	30	47	1.44		1.22	69	70	15	84
			3.8	20	45	1.01						
295	.99	4.2	.8	25	43	1.32		1.12	62	63	15	70
			3.4	20	50	.91						
310	.99	3.6	.7	25	47	1.21		1.00	53	54	15	53
			2.9	15	43	.80						
325	.99	2.9	.6	20	49	.93		.78	44	44	15	34
			2.3	15	56	.62						
340	.99	1.4	.8	15	50			69	22	22	16	15
357 LEW		0						0	0		8½	0
									1618		269	2010 (19509)
												×1.005
												2020 (19)
											425	

6:05

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

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75 •

9-275 d
(Sept., 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 5-24-43, 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 Stevens Chart Ink	:	Record of clear
Wt. Adj. Turg. 3B	:	Chart time 1" =
Paper no	:	Clock Reg. 1 div Sl.
dry		

Clock is now complete with sock, studs & plugs.

Insulated cable car angle finder so that one-wire "hook-up" may be used.

No. 4 of 4 sheets

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