9-275 c
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

RECORDED

Meas. No. 140

Checked by M.A.F.

Date 5/29/39

DISCHARGE MEASUREMENT NOTES

Brazos R. at Richmond, Tex.

Date May 26, 1939 Party Goines and Fry

Width 368 Area 4,760 Vel. 3.07 G. H. 11.66 Disch. 14,600

Method 2-8 No. secs. 20 G. H. change -0.06 in 1.2 hrs. Susp. 50 C 1.0

Method coef. 1.00 Hor. angle coef. 1.00 Meter No. 1319 Susp. coef. 1.00

GAGE READINGS				
Time		Recorder	Inside	Outside
3:12 p.m.	Start	U.S.W.B.	Wire Wt.	11.81
3:20		11.75		11.78
3:33		11.78	11.78	11.78
3:33		Tape	11.78	
4:20	Start	11.69		
4:50		11.67		
5:30	Finish	11.68		
6:01	Finish	U.S.W.B.	Wire Wt.	11.67
6:10 p.m.		11.60	11.64 Tape	11.60
Weighted M. G. H.		11.66		
G. H. correction				
Correct M. G. H.				

Date rated Oct. 31, 1938 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 —

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

Flow Smooth Weather Favorable

Other

Gage ok

Record removed No Intake flushed No

Observer —

Control —

Remarks Rate of change in stage -0.05 ft/hr.

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

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UNITED STATES
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GEOLOGICAL SURVEY
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Date 5/26/39, 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
			St	4:20								
LEW 455		0					0					
								.64	58.5		15	37.4
440	⊥	7.8	1.6	30	44	1.51	1.27					
			6.2	20	43	1.03						
								1.58	171		20	270
420		9.3	1.9	40	43	2.05	1.88					
			7.4	40	51½	1.72						
								2.02	203		20	410
400	⊥	11.0	2.2	50	47	2.34	2.17					
			8.8	40	44	2.00						
								2.64	231		20	610
380		12.1	2.4	80	51	3.44	3.10					
			9.7	60	47½	2.77						
								3.29	245		20	807
360		12.4	2.5	80	47½	3.68	3.48					
			9.9	80	53½	3.28						
								3.62	251		20	908
340		12.7	2.5	80	43½	4.03	3.77					
			10.2	80	50	3.51						
								3.84	253		20	973
320	⊥	12.6	2.5	80	43	4.08	3.90					
			10.1	80	47	3.73						
								3.94	249		20	981

No. 2 of 4 Sheets. Comp. by WAG Chk. by M.A.E.

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UNITED STATES
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GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 5/26/39, 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
300		12.3	2.5	80	44	3.98	3.98					
			9.8	80	42	3.98						
			4:50 pm					3.94	258		20	1020
280		13.5	2.7	80	41	4.27	3.90					
			10.8	80	49½	3.54						
								3.78	272		20	1,030
260		13.7	2.7	80	44½	3.94	3.67					
			11.0	80	51½	3.40						
								3.62	283		20	1,040
240		14.6	2.9	80	45	3.90	3.64					
			11.7	80	52	3.37						
								3.54	300		20	1,060
220		15.4	3.1	80	48	3.65	3.44					
			12.3	80	54½	3.22						
								3.46	312		20	1,080
200	⊥	15.8	3.2	80	46	3.81	3.47					
			12.6	80	56	3.13						
								3.38	323		20	1,090
180		16.5	3.3	80	48	3.65 ~~3.68~~	3.28 ~~3.30~~					
			13.2	60	45	2.93						1,040 ~~1,090~~
								3.18 ~~3.19~~	341		20	
160		17.6	3.5	80	52½	3.32	3.08					
			14.1	80	62½	2.81 ~~2.8~~						
								2.77	362		20	1,000

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Date MAY 26, 1939 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
140		18.6	3.7	60	47½	2.77	2.46					
			14.9	50	51½	2.14						
								2.14	350		20	749
120		16.4	3.3	40	42	2.10 ~~2.08~~	1.82 ~~1.81~~					
			13.1	30	43	1.54						
								1.70 ~~1.69~~	202 ~~193~~		15	344 ~~324~~
105		10.5	2.1	40	53	1.67	1.57					
			8.4	40	60	1.47						
								1.24 ~~1.26~~	79.0		10	99.5 ~~132~~
95		5.3	1.1	25	49	1.13	.94					
			4.2	15	44	.16		.47	21.2		8	10
87		0				0						
REW												
												~~14,628.2~~
		5:30 pm										14598.9
									~~4754.7~~ 4764.7			

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