9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 133

Checked by

Date

Brazos River at Richmond, Tex

Date Dec. 14, 1938 Party Earhart and Goines

Width 282 Area 584 Vel. .79 G. H. Disch. 1.80 563

Method .6 2-8 No. secs. 21 G. H. change 0 in 1.0 hrs. Susp. Rod

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

GAGE READINGS

Time		Recorder	Inside	Outside
9:32 a.m.		USWB	Wire Wt	2.80
9:40	Start	elec. tape		2.80
9:42		2.76	2.80	2.87
11:28	Start	2.80		
12:30	Finish	2.80		
1:08 pm		2.80	2.80	2.86
		Tape		
	Finish			
Weighted M. G. H.			2.80	
G. H. correction				
Correct M. G. H.				

Date rated Oct. 31, 1938 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 nr. Control.

~~Chain~~, wire, found 58.58, changed to — 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 Moderate upstr. wind

Gage ok

Record removed Yes Intake flushed No.

Observer —

Control clean

Remarks —

Sheet No. 1 of 5 sheets. G. H. of zero flow Not determined ft.

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January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 12/14/38, 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
Start		11:28 a.m.					Water about 2" below					
	Upstr., mod., cool, wind											
REW 2		0					0					
								0	.6	.2	3	—
5		.4	0				0					
								0	4.2	8.5	5	—
10	⊥	1.3	.8	0	40		0					
								.26	15.5		10	4.9
20	⊥	1.8	.4	15	59½	.57	.53					
			1.4	10	46	.49						
								.74	20.0		10	14.8
30		2.2	.4	20	43½	1.02	.94					
			1.8	20	52	.86						
								1.05	36.0	2.4	15	37.8
45		2.6	.5	30	51	1.30	1.16					
			2.1	20	43½	1.02						
								1.16	40.5	2.7	15	47.0
60		2.8	.6	30	50	1.33	1.16					
			2.2	20	44½	1.00						
								1.22	42.8	2.85	15	52.2
75		2.9	.6	30	50	1.33	1.28					
			2.3	30	54	1.23						
								1.25	39.0	2.6	15	48.8
90		2.3	.5	30	50½	1.32	1.22					
			1.8	30	59½	1.12						
									198.6			204.3

No. 2 of 5 Sheets. Comp. by W.H.G. Chk. by J.M.S.

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Date 12/14/38, 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 198.6	Mean depth	Width	Discharge 204.5
								1.10	36.8		15	40.5
105	.99	2.6	.5	30	61½	1.08	.99					
			2.1	25	60½	.92	1.00					
								1.03	38.2 ~~38.4~~		15	39.3 ~~39.6~~
120	.99	2.5	.5	25	50	1.11	1.07					
			2.0	20	42½	1.04	1.08					
								1.00	38.2 ~~38.4~~		15	38.2 ~~38.4~~
135	1	2.6	.5	25	50½	1.10	.92					
			2.1	15	45	.75						
								.92	36.8		15	33.8
150	1	2.3	.5	25	49	1.13	.92					
			1.8	15	47	.72						
								.96	33.8		15	32.4
165		2.2	.4	20	53½	.84	1.00					
			1.8	25	47½	1.17						
								1.02	31.5		15	32.1
180		2.0	.4	20	46	.97	1.05					
			1.6	25	48½	1.14						
								1.00	30.0		15	30.0
195		2.0	.4	25	49½	1.12	.96					
			1.6	20	55	.81						
								1.01	29.2		15	29.5
210		1.9	.4	25	49½	1.12	1.06					
			1.5	20	45	.99						
								1.02	27.8		15	28.4

302.7

No. 3 of 5 Sheets. Comp. by W.H.G Chk. by J.M.

304.7

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UNITED STATES
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WATER RESOURCES BRANCH

Date 12/14/38, 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
225		1.8	.4	25	51	1.09	.98					
			1.4	20	51½	.87						
								1.04	27.0		15	27.0
240		1.8	.4	25	47½	1.17	1.02					
			1.4	20	50½	.88						
								.95	25.5		15	~~24.3~~ 24.2
255	.99	1.6	.3	20	68	.66	.84					
			1.3	25	50½	1.10	.88					
								.78	21.8		15	17.0
270	.99	1.3	.8	20	63½	.70	.89					
								.34	9.1	.65	14	3.1
284		0						0				
									~~592.4~~ 584.3			562.7

No. 4 of 5 Sheets. Comp. by ___ Chk. by J.M.

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(Sept., 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 12/14/38, 19..... No. of Meas.....

SUPPLEMENTARY DISCHARGE MEASUREMENT NOTES

Brazos River 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		: Record	
Wt. Adj.	8 Turq.	: Chart time	clear
Paper	left as found	: Clock Reg.	1b 5l.
	dry		left as found

0.1 ft. mud in well.
O.G. not set (reads high)

No. 5 of 5 sheets

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