9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 259
Checked by JAL
Date 2-13-45

Brazos River at Richmond, Tex.

Date Feb. 1, 1945 Party Blackburn and Goines

Width 378 Area 4900 Vel. 2.27 G. H. ____ Disch. 11,100

Method .2-.8 No. secs. 23 G. H. change -0.02 in 1.3 hrs. Susp. 50C.9

Method coef. 1.00 Hor. angle coef. 1.00 Meter No. 1791 Susp. coef. 1.00

GAGE READINGS (Tape)

Time	C. W. T.	Recorder	Inside	Outside
9:40 a.m.		11.22	11.17	11.18
10:25	Start		(11.15)	
11:45	Finish		(11.13)	
12:15 p.m.		11.15	11.11	11.16
	Finish			
U.S.W.B. Wire Wt. Gage				
9:35 a.m.				11.17
Weighted M. G. H.			11.14	
G. H. correction				
Correct M. G. H.				

Date rated June 1 1943 Used rating for rod Rod susp. Meter 0.9 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 Cold

Other —

Gage ok

Record removed No Intake flushed No

Observer —

Control Channel

Remarks Falling 0.02 ft./hr.

Sheet No. 1 of 3 sheets. G. H. of zero flow ____ ft.

U. S. GOVERNMENT PRINTING OFFICE 6—7440

Ck bar 58.58 11.17 mn-wt.
corr 58.57 9.35

T 11.17
P 11.22
O 11.18
9:40

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 2/1/45, 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												
70		0					0		0		5	0
80		5.1	1.0	5	40	.30		.34	51		10	17.3
			4.1	7	45	.37						
90		9.8	2.0	25	41	1.41		1.26	122		12½	154 153.7
			7.8	25	52	1.11						
105		16.2	3.2	40	41	2.24		2.15	243		15	520 522.4
			13.0	40	45	2.05						
120		17.3	3.5	40	43	2.14		2.24	260		15	588 590.2
			13.8	50	08	2.39						
135		16.3	3.3	40	48	1.92		1.83	244		15	446.2
			13.0	40	53	1.74 1.65						
150		17.0	3.4	50	48	2.39		2.29	255		15	584.0
			13.6	40	42	2.19						
165		17.1	3.4	50	40	2.87		2.71	256		15	694 693.4
			13.7	50	45	2.55						
180		16.8	3.4	50	43	2.67		2.67	294		17½	785.0
			13.4	50	43	2.67						
200		16.5	3.3	60	46	2.99		2.83	330		20	934 933.9
			13.2	50	43	2.67						
220		16.1	3.2	60	43	3.20		2.78	322		20	895.7
			12.9	45	44	2.35						
240		15.4	3.1	60	47	2.93		2.64	308		20	825 828.5
			12.3	50	47	2.44						

No. 2 of 3 Sheets. Comp. by "G.L.B" Chk. by JKL

12:15pm
T 11.11
P 11.15
O 11.16

9-275
January 1935

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Date 2/1/45, 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
												781
260		14.9	3.0	55	43	2.94		2.62	298		20	~~940.4~~
			11.9	40	40	2.30						
280		14.0	2.8	50	41	2.80		2.55	280		20	714.0
			11.2	45	45	2.30						
300		13.4	2.7	50	41	2.80		2.47	268		20	662.0
			10.7	40	43	2.14						
320		12.4	2.5	50	43	2.67		2.38	248		20	590.3
			9.9	40	44	2.09						
340		11.7	2.3	50	40	2.35		2.10	234		20	491.4
			9.4	40	50	1.84						
360		11.6	2.3	40	40	2.30		2.01	232		20	~~469~~ ~~466.3~~
			9.3	30	40	1.73						
380		11.6	2.3	35	40	2.02		1.88	232		20	~~436.7~~
			9.3	30	40	1.73						
400		10.4	2.1	40	60	1.54		1.49	208		20	~~310~~ 304.9
			8.3	25	40	1.44						
420		8.6	1.7	25	44	1.31		1.23	172		20	~~272~~ ~~211.6~~
			6.9	20	40	1.15						
440		3.4	2.0	15	45	.73		.73	48		14	35.0
L.E.W.												
448		0							0		4	0
		11.9									378	
									4905			~~11,142~~ ~~11,180~~

No. 3 of 3 Sheets. Comp. by "G.L.B." Chk. by JLL

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