9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 243

Checked by [illegible]

Date 7-21-44

Brazos River at Richmond, Tex.

Date May 5, 1944 Party Goines and Longacre

Width 448 Area 14,000 Vel. 6.22 31 G. H. _____ Disch. 87,000 8

Method .2 No. secs. 22 G. H. change +0.04 in 0.7 hrs. Susp. 100 Cl. 0

Method coef. .93 Hor. angle coef. as noted Meter No. 1705 Susp. coef. 1.00

GAGE READINGS				
Time	C. W. T.	Recorder	Inside	Outside (Tape)
1:35 p.m.		30.09	30.10	30.2 ± 0.5
2:00	Start		(30.13)	
2:45	Finish		(30.17)	
3:10 p.m.		30.18	30.20	30.2 ± 0.5
	Finish			
Weighted M. G. H.			30.15	
G. H. correction				
Correct M. G. H.				

Date rated Apr. 9, 1942 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 —, changed to — at —

Correct length —

Levels obtained no

Measurement rated ~~excellent (2%)~~, good (5%), fair (8%), ~~poor (over 8%)~~, based on following conditions: Cross section See x-sect. attached to meas. 5/3/44

Flow Smooth Weather Favorable

Other

Gage ok

Record removed No Intake flushed No

Observer —

Control Channel

Remarks Rising 0.06 ft./hr.

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

U. S. GOVERNMENT PRINTING OFFICE 6—7440

0 30.2 ±.5
T 30.10
P 30.09 1:35 pm

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 5/5/44, 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	Uncorr. area / Mean depth	Width	Discharge
		Comp by mid-sect. method										
LEW 500		0						0	0		10	0
480	.98	11.0	2.2	20	49			.93	269	275	25	250
450	98	18.2	3.6	30	50			3.59	490	500	27½	1760
425	99	32.2	6.4	80	45			3.98	799	806	25	3180
400	⊥	34.6	6.9	100	40			5.60	779		22½	~~2690~~ 4360
380		35.1	7.0	150	48			6.99	702		20	4900
360	⊥	32.0	6.4	150	48			6.99	640		20	4470
	2:15 pm											
340		* 34.6	6.0	150	48			6.99	692		20	4830
320		37.0	6.1	150	43			7.80	740		20	5770
300		38.0	6.2	150	46			7.29	760		20	5540
280		38.4	6.3	150	48			6.99	768		20	5360
260		37.5	6.5	75	21			7.98	750		20	5980
	2:35										25 0	

No. 2 of 3 Sheets. Comp. by WHG JKL Chk. by

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* See X-Sect. attached to meas. of 5/2/44

3:10 T 30.29 O 30.25.5 P 30.18

9-275
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Date 5/5/44, 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
240	⊥	37.7	6.6	75	19¾			8.52	754		20	6420
220		37.4	6.6	125	33½			8.36	748		20	6260
200		37.8	6.7	100	27			8.28	756		20	6260
180		39.3	6.8	100	31			7.~~33~~ 21	786		20	5760
160		37.7	6.9	100	34			6.58	754		20	4960
140		37.5	6.8	75	25			6.71	750		20	5030
120	⊥	38.1	7.1	150	47			7.14	666		17½	4750
105		36.7	6.6	150	49			6.85	469		12½	3210
95		32.2	5.7	75	23			7.29	403		12½	2840
80		24.1	4.8	50	17½			6.39	518		21½	3310
52		0						0	0		14	0
REW									14003			95,100
												93,530
												X .93
												86,942
												88,443

From discharge relation curve
coeff to convert $Q_{.2}$ to $Q_{.2-.8}$ = 0.93

No. 3 of 3 Sheets. Comp. by WHG JRL Chk. by AAP