9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 239

Checked by HOI

Date 6-16-44

Brazos River at Richmond, Tex

Date March 28, 1944 Party W. H. Goines

Width 368 Area 5.090 Vel. 3.16 G. H. _____ Disch. 16.100

Method 2-8 No. secs. 20 G. H. change -0.04 in 1.0 hrs. Susp. 100<1.0

Method coef. 1.00 Hor. angle coef. As Noted Meter No. 1765 Susp. coef. 1.00

GAGE READINGS

Time	C. W. T.	Recorder	~~Inside~~ Tape	Outside
11:05 a.m.		12.92	12.88	12.95± 0.1
11:10	~~Start~~	12.87	12.87	–
12:00	Start		(12.84)	
1:00	Finish		(12.80)	
1:35 pm		12.78	12.78	12.80± 0.1
	~~Finish~~ U.S.W.B. W-Wt			
1:30 pm				12.78
Weighted M. G. H.			12.82	
G. H. correction				
Correct M. G. H.				

Date rated June 4, 1943 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 no

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 Yes Intake flushed No

Observer –

Control channel

Remarks Falling 0.04 ft./hr.

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

U. S. GOVERNMENT PRINTING OFFICE 6—7440

T 12.88
P 12.92 11:05
O 12.95±.1

11:10
T 1287

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

9-275
January 1935

Date 3-28-44, 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
12:00		Comp. by mid-sect. method Horiz. coeff. applied to area										
LEW 438		0						0	0		9	0
420		9.3	1.9	30	49	1.35		1.41	177		19	250
			7.4	30	45	1.47						
400		11.8	2.4	40	46	1.92		1.98	236		20	470
			9.4	40	43	2.05						
380	⊥	11.8	2.4	80	51	3.43		3.12	236		20	740
			9.4	60	47	2.80						
360	⊥	11.2	2.2	80	48	3.65		3.22	224		20	720
			9.0	60	47	2.80						
340	99	13.0	2.6	100	55	3.98		3.48	257	260	20	890
			10.4	60	44	2.99						
320	99	13.3	2.7	100	53	4.12		3.46	263	266	20	910
			10.6	60	47	2.80						
300	99	15.2	3.0	100	54	4.05		3.51	301	304	20	1060
			12.2	80	59	2.97						
280	99	15.3	3.1	100	54	4.05		3.40	303	306	20	1030
12:25 pm			12.2	60	48	2.74						
260	99	15.8	3.2	100	51	4.28		3.46	313	316	20	1080
			12.6	60	50	2.63						
240	⊥	16.6	3.3	100	51	4.28		3.54	332	332	20	1180
			13.3	60	47	2.80						
220	⊥	16.8	3.4	100	54	4.05		3.71	336		20	~~1240~~ 1250
			13.4	80	52	3.37						

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

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9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 3/28/44, 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
200		15.9	3.2	80	41	4.26		3.62	318		20	1150
			12.7	60	44	2.99						
180	+	16.5	3.3	100	52	4.20		3.85	330		20	1270
12.45			13.2	80	50	3.50						
160		17.3	3.5	80	44	3.98		3.42	346		20	1180
			13.8	60	46	2.86						
140	+	18.0	3.6	60	42	3.13		2.82	360		20	1020
			14.4	50	44	2.50						
120		19.7	3.9	60	47	2.80		2.70	345		17½	930
			15.8	50	42	2.61						
105	+	16.5	3.3	80	57	3.08		2.94	248		15	730
			12.2	60	47	2.80						
90	+	9.3	1.9	20	45	1.96		1.67	163		17½	270
			7.4	30	48	1.38						
70		0						0	0		10	0
REW												
1:00 pm									5088			16130
												16120

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

9-275 d
(Sept., 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 3/28/44, 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	Per Stevens chart ink	Record	
Wt. Adj.	Terg 313	Chart time	clear
Paper	no	Clock Reg.	on time
	dry		no

clock 205926 cleaned 4-21-42

No. 4 of 4 sheets

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