9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 305

Checked by F.S.

Date 6-5-47

Brazos River at Richmond, Tex

Date May 27, 1947 Party W. H. Goines

Width 410 Area 6640 Vel. 3.55 G. H. _____ Disch. 23,600

Method 0.2-8 No. secs. 23 G. H. change -0.08 in 1.2 hrs. Susp. 100 c 1.0

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

GAGE READINGS				
Time		Recorder	Inside	Outside
		Tape	w-wt	0.6
8:20 a.m.	~~Start~~	15.25	—	15.3 ± 0.
9:15	Start	(15.20)		
10:30	Finish	(15.12)		
11:00 a.m.			15.11	—
11:05		15.09	—	—
	~~Finish~~			
~~Weighted~~ M. G. H.		15.16		
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 58.62, changed to no at _____

Correct length 58.62

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 No Intake flushed No

Observer —

Control Channel

Remarks Falling 0.06 ft/hr.
Measurement re-computed by 0.2 method
See sheets 4 & 5 Coeff = 0.890

Sheet No. 1 of 5 sheets. G. H. of zero flow — ft.

U. S. GOVERNMENT PRINTING OFFICE 6—7440

T 15.25
P 15.27
O 15.3 ± 0.1
8:20

Broom

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 5/27/47, 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	Corr Area	Mean depth Area	Width	Discharge
			100	1.0		1.79						
LEW 470		0						0	0		10	0
450		9.6	1.9	30	48	1.44		1.74	192		20	330
			7.7	40	45	2.05						
430	⊥	14.5	2.9	50	46	2.50		2.12	290		20	620
			11.6	30	40	1.73						
410	99	13.3	2.7	60	45	3.06		2.72	263	266	20	720
			10.6	50	48	2.39	1.45					
390	99	11.3	2.3	80	51	3.59		3.43	224	226	20	770
			9.0	60	42	3.27						
370	⊥	13.0	2.6	80	48	3.81		3.47	260		20	900
			10.4	60	44	3.13						
350	99	15.6	3.1	80	47	3.89		3.51	309	312	20	1080
			12.5	60	44	3.13						
330	98	17.2	3.4	80	46	3.98		3.36	337	344	20	1130
			13.8	60	50	2.75	.73					
310	99	18.9	3.8	80	43	4.25		3.76	374	378	20	1410
			15.1	60	42	3.27						
290	99	19.2	3.8	80	42	4.35		3.64	380	384	20	1380
			15.4	60	47	2.93	.72					
270	99	18.9	3.8	80	42	4.35		3.84	374	378	20	1440
			15.1	80	55	3.37						
250	99	18.8	3.8	100	51	4.48		4.07	372	376	20	1520
			15.0	80	50	3.66						

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

WW 15.11
11:00 am
58.62

P 15.11
T 1509 11:05

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 5/27/47, 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	Corr. Area	Mean depth Area	Width	Discharge
230	⊥	19.3	3.9	100	48	4.76		3.91	386	386	20	1510
			15.4	60	45	3.06						
210	⊥	19.7	3.9	100	47	4.86		4.19	394		20	1650
			15.8	80	52	3.52	38					
190		18.2	3.6	100	46	4.96		4.38	364		20	1600
			14.6	80	48	3.81	77					
170	⊥	18.3	3.7	80	42	4.35		3.87	366		20	1420
			14.6	80	54	3.39						
150		19.7	3.9	80	47	3.89		3.70	394		20	1460
			15.8	80	52	3.52	141					
130		20.8	4.2	80	46	3.98		3.66	416		20	1520
			16.6	60	41	3.35						
110	⊥	22.5	4.5	80	48	3.81		3.54	394		17½	1400
			18.0	60	42	3.27						
95		20.1	4.0	80	44	4.16		3.76	302		15	1140
			16.1	60	41	3.35						
80		13.7	2.7	60	42	3.27		2.70	171		12½	460
			11.0	40	43	2.14						
70		7.8	1.6	40	57	1.62		1.32	78		10	100
			6.2	20	46	1.01						
60		0						0	0		5	0
LEW												
									6640		410	23560
		470										5
		60										
		410										

10:30 am

No. 3 of 5 Sheets. Comp. by WHG Chk. by

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