1944

9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 230

Checked by W.H.

Date 11-17-43

Brazos River at Richmond, Tex.

Date Oct. 14, 1943 Party W.H. Gaines

Width 281 Area 691 Vel. 1.65 G. H. ____ Disch. 1,140

Method .2-.8 No. secs. 24 G. H. change +0.01 in 0.9 hrs. Susp. Rod

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

GAGE READINGS				
Time	G.W.T.	Recorder	Inside	Outside
12:00				3.14
12:50	~~Start~~			3.14
2:00	Start			(3.14)
2:55	Finish			(3.15)
3:25				3.15
6:30 p.m.				3.15
	~~Finish~~			
~~Weighted~~ M. G. H.				3.14
G. H. correction				
Correct M. G. H.				

Date rated June 4, 1943 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 about 2 feet, mile, above, below gage, and at control

Chain, wire, found ____, changed to no at —

Correct length ____

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 W.wt. ok

Record removed — Intake flushed —

Observer —

Control clean

Remarks Rising 0.01 ft./hr.

Sheet No. 1 of 2 sheets. G. H. of zero flow — ft.

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12:50
3.14

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 10-14-43, 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	Mean in section	Area	Mean depth	Width	Discharge
Comp by mid sect. method,								see back this sheet.				
REW 5		0	—					0	0		2½	0
10		1.2	—					0	6		5	0
15	⊥	2.0	.4	30	46	1.44		1.88	15		7½	18
			1.6	20	49	1.93						
25		3.5	.7	40	47	1.88		1.73	35		10	61
			2.8	30	42	1.58						
35		3.8	.8	50	51	2.16		1.93	38		10	73
			3.0	40	52	1.70						
45		3.8	.8	50	47	2.34		2.13	38		10	81
			3.0	40	46	1.92						
55		3.6	.7	50	43	2.55		2.28	36		10	82
			2.9	40	44	2.00						
65	⊥	3.4	.7	50	42	2.61		2.30	34		10	78
drift above			2.7	40	44	2.00						
75		2.8	.6	20	58	.77		.82	28		10	23
			2.2	20	51	.88						
85		4.0	.8	60	49	2.69		2.24	40		10	90
			3.2	40	49	1.80						
95		3.8	.8	50	46	2.39		2.16	38		10	82
			3.0	40	46	1.92						
105		1.3	.9	50	46	2.39		2.16	43		10	93
			3.4	40	46	1.92						

No. 2 of 3 Sheets. Comp. by W.H.G. Chk. by

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3.15
3:25p

3.15
6:30p

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

9-275
January 1935

Date 10·14·43, 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
115	.99	4.2	.8	40	43	2.05		1.92	42	~~42~~	10	81
			3.4	40	49	1.80						
125	.99	4.0	.8	40	50	1.76		1.58	40	~~40~~	10	63
			3.2	30	47	1.41						
135	⊥	3.3	.7	40	55	1.61		1.48	41		12½	61
			2.6	30	49	1.35						
150		2.8	.6	40	52	1.70		1.48	42		15	62
			2.2	25	44	1.26						
165	⊥	2.3	.5	30	44	1.51		1.27	35		15	44
			1.8	20	43	1.03						
180		2.1	.4	30	48	1.38		1.18	32		15	38
			1.7	20	46	.97	35					
195		1.7	.3	25	41	1.35		1.12	26		15	29
			1.4	20	50	.89	25					
210		1.5	.9	20	43			1.03	22		15	23
225	⊥	1.4	.8	25	49			1.13	21		15	24
240		1.2	.7	20	48			.93	21		17½	20
260		.8	.5	20	48			.93	18		23	17
286		0						0	0		13	0
LEW												
									691		281	1143

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