9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Meas. No. 280
Checked by MAF
Date 3-7-46

DISCHARGE MEASUREMENT NOTES

Brazos River at Richmond Tex

Date Feb 22, 1946 Party W.H.Goines

Width 420 Area 3.530 Vel. 4.83 G. H. _____ Disch. 41.200

Method .2 No. secs. 24 G. H. change -0.03 in 1.0 hrs. Susp. 100.C1.0

Method coef. 0.93 Hor. angle coef. Noted Meter No. 1791 Susp. coef. 1.00

GAGE READINGS (73pc)

Time	G. W.	Recorder	~~Inside~~	Outside
11:05 a.m.		19.40	19.39	19.5±
11:35	Start		(19.37)	0.2
12:35	Finish		(19.34)	
1:05 p.m.		19.33	19.32	19.5±
2:10 p.m.		19.25	19.24	0.2
	U.S.W.B. W.W.T.			
10:55 a.m.	Finish	by observer		19.51
1:00 p.m.		by W.H.G		19.42
~~Weighted~~ M. G. H.			19.36	
G. H. correction				
Correct M. G. H.				

Date rated June 1, 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 No Intake flushed No

Observer _____

Control channel

Remarks ~~RATE OF CHANGE IN STAGE~~ -0.03 ft./hr.

Marked slope stakes set 2/21/46 with tie at w.s.

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

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80 • 75 • W.Wt 19.51°
10:55
observer

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January 1935

85 •

UNITED STATES
DEPARTMENT OF THE INTERIOR
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Date 2/22/46, 19 ___ DISCHARGE MEASUREMENT NOTES

Brazos River, at Richmond, Tex.

90 •

92 • 11:35

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
94 •												
LEW 477		0						0	0		8½	0
97 •												
98 • 460	⊥	10.7	2.1	40	47			1.96	225		21	440
99 •												
435	⊥	15.6	3.1	60	42			3.27	390		25	1280
410		17.5	3.5	80	53			3.46	438		25	1520
385	⊥	18.7	3.7	80	44			4.16	468		25	1940
99 •												
360	.99	20.1	4.0	100	42			5.43	497	502	25	2700
98 •												
97 • 335	.99	21.1	4.2	100	43			5.31	523	528	25	2780
96 •												
94 • 310	.99	22.2	4.4	100	41			5.57	495	500	22½	2760
2	11:50											
92 • 290	.99	22.1	4.4	150	56			6.11	438	442	20	2680
90 •			Drift									
270	.99	22.7	4.5	70 150	25 54	6.40 6.34		6.37	449	454	20	2860
85 • 250	.99	24.9	5.0	150	55			6.22	493	498	20	3060
80 • 230	.99	24.0	4.8	150	52			6.58	475	480	20	3120

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

75 •

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N-wt 19.42
bar 53.53 Corr. 58.57
1:00 pm

T 19.32
D 19.33
O 19.51.2
1:05 pm

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January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Pk 19.5
4 am 2/24/46

Date 2/22/46, 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
210	⊥	24.3	.4	150	50			6.84	486		20	3320
190	⊥	25.1	5.0	150	52			6.58	502		20	3300
170	⊥	24.1	4.8	150	57			6.00	482		20	2890
2		12:15 pm.										
150	⊥	23.6	4.7	100	47			4.86	472		20	2300
130		25.7	5.1	100	47			4.86	514		20	2500
110	⊥	27.9	5.6	100	50			4.57	418		15	1910
		1355 1785										
100		25.6	5.1	100	47			4.86	256		10	1240
90	⊥	21.4	4.3	100	44			5.19	214		10	1110
80	⊥	16.2	3.2	80	45			4.07	162		10	660
70		10.3	V= 0					0	88		8½	0
			Neg. Flow 7									44370
63		7.1	1.4	10	48			.49	46		6½	-20
									531			
57 REW		0						0	0		3	0
											426	44350
From curve dated 1943 coeff. to convert												x.93
Q2 to Q2-8 is 0.93												41,200

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

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