9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 222

Checked by TW

Date 2-5-43

Brazos River at Richmond, Tex.

Date Jan. 21, 1943 Party W. H. Goines

Width 300 Area 2440 Vel. 1.81 G. H. — Disch. 4420

Method 2-8 No. secs. 23 G. H. change -0.02 in 1.5 hrs. Susp. 30 c.s.

Method coef. 1.00 Hor. angle coef. As Noted Meter No. 1705 Susp. coef. 1.005

GAGE READINGS — Tape

Time		Recorder	Inside	Outside
1:20 p.m.		W-wt →		6.81
1.30	~~Start~~	7.92	7.92	7.92
2:00		W-wt. →		6.79
3:05	Start			(6.78)
4:35	Finish			(6.76)
5:00 p.m.		W-wt →		6.75
	~~Finish~~			
Weighted M. G. H.				6.77
G. H. correction				
Correct M. G. H.				

Date rated Apr. 9, 1942 Used rating for rod Rod susp. Meter 0.5 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 58.57, 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 Pool at ~~gage~~ recorder use W-wt. gage - See sheet 4

Record removed Yes Intake flushed No

Observer —

Control channel

Remarks Falling 0.01 ft/hr

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

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 1-21-43, 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
		Meas. Comp by Slack's Method.										
REW 85		0						0	0		2½	—
90		3.5	.7	7	54	.31		.30	26		7½	8
			2.8	5	42	.28						
100		8.4	1.7	20	44	1.03		.96	84		10	81
			6.7	20	52	.88						
110		12.1	2.4	30	45	1.51		1.34	121		10	162
			9.7	25	49	1.16						
120		13.5	2.7	40	57	1.58		1.54	135		10	208
			10.8	30	45	1.51						
130		13.7	2.7	30	46	1.47		1.28	171		12½	219
			11.0	25	52	1.09						
145		11.8	2.4	40	50	1.80		1.67	177		15	296
			9.4	30	42	1.54						
160	⊥	11.2	2.2	40	43	2.09		1.94	168		15	326
			9.0	40	50	1.80						
175		11.3	2.3	50	50	2.25		2.10	170		15	357
			9.0	40	46	1.96						
190		10.8	2.2	50	50	2.25		2.12	162		15	344
			8.6	40	45	2.00						
205		10.3	2.1	50	47	2.39		2.14	154		15	330
3:50 p.m			8.2	40	48	1.88						
220	⊥	9.5	1.9	50	48	2.34		2.24	142		15	318
			7.6	40	42	2.14						

No. 2 of 4 Sheets. Comp. by W.H.G. Chk. by TW

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Date 1-21-43, 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
235		9.3	1.9	50	50	2.25		2.00	140		15	280
			7.4	40	52	1.74						
250	1	8.8	1.8	50	50	2.25		2.08	132		15	275
			7.0	40	47	1.92						
265		8.3	1.7	50	51	2.21		2.06	124		15	256
			6.6	50	59	1.91						
280		8.1	1.6	60	49	2.30		1.97	122		15	240
			6.5	40	55	1.64						
295	.99	8.0	1.6	50	53	2.12	1.96	1.94	120		15	233
			6.4	40	50	1.80						
310	.99	6.5	1.3	40	47	1.92	1.81	1.79	98		15	175
			5.2	40	53	1.70						
325	.99	4.7	.9	40	48	1.88	1.79	1.77	70		15	124
			3.8	40	53	1.70						
340	.99	3.9	.8	40	53	1.70	1.54	1.52	58		15	88
			3.1	30	49	1.39						
355	.98	3.0	.6	30	49	1.39	1.22	1.20	45		15	54
			2.4	20	43	1.06						
370	.98	1.6	1.0	20	51		.90	.88	24		15	21
385		0						0	0		7½	—
* LEW												4395
									2443		300	4396
												1.005
												4419

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

9-275 d
(Sept., 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 1-21-43, 19____ No. of Meas.____

SUPPLEMENTARY DISCHARGE MEASUREMENT NOTES

Brazos R. 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.

Pen Stevens Chart 106 / Recorder inspection

Pencil* : Record ok

Wt. Adj. no : Chart time 1h F

Paper dry : Clock Reg. 1 div sl.

Need sack for comb. clock 264384

O.G sect 374-395 is gone

* Installed auxil. pencil carriage which had been removed for repairs - Turg. 3B

Recorder not in operation ~~below 6.7 ft.~~ during low stages

Use U.S.W.B. record for missing record

Found and removed drift mark from I.G @ 12.33'

Made meas using 1 wire-system - Cable car is properly insulated

Well not inspected for silt

No. 4 of 4 sheets

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