9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 228

Checked by NBT

Date 10/6/43

Brazos River at Richmond Tex.

Date Aug 6, 1943 Party WHGaines

Width 313 Area 1.790 Vel. 1.22 G. H. — Disch. 2.190 80

Method 2-8 No. secs. 25 G. H. change -0.03 in 0.9 hrs. Susp. 306.5

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

GAGE READINGS				
Time	C. W. T.	Recorder	Inside	Outside
7:40 a.m.				4.76
8:30	Start	USWB		(4.74)
9:25	Finish	W-wt		(4.71)
9:50 a.m.		Gage		4.70
	Finish	Rec.	Tape	
7:45 a.m.		7.30	7.30	—
Weighted M. G. H.				4.72
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 Hot

Other —

Gage W-wt ok

Record removed Yes Intake flushed No

Observer —

Control channel

Remarks Falling 0.03 ft/hr.

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

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9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 8-6-43, 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
REW 87		0						0	0		1½	0
90		1.9		✓=	0			0	8		4	0
95	⊥	3.4	.7	15	55	.63		.48	17		5	8
			2.7	7	49	.34						
100		5.5	1.1	20	53	.86		.74	41		7½	30
			4.4	15	55	.63						
110	⊥	9.8	2.0	15	43	.80		.76	98		10	74
			7.8	15	48	.72						
120		10.7	2.1	20	49	.92		.90	107		10	96
			8.6	20	52	.88						
130		9.9	2.0	20	47	.97		.92	99		10	91
			7.9	20	52	.88						
140		8.7	1.7	20	44	1.03		.94	87		10	82
			7.0	15	41	.84						
150		7.5	1.5	30	52	1.31		1.20	75		10	90
			6.0	20	42	1.08						
160		8.1	1.6	30	48	1.41		1.31	81		10	106
			6.5	25	47	1.21						
170		8.4	1.7	30	45	1.51		1.30	105		12½	136
			6.7	20	42	1.08						
185		8.8	1.8	30	44	1.54		1.34	132		15	177
			7.0	25	50	1.14						

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

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Meas. comp. by mid-section method.

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 8-6-43, 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
200		9.0	1.8	30	42	1.61		1.38	135		15	186
			7.2	25	49	1.16						
215		7.5	1.5	40	52	1.74		1.58	112		15	177
			6.0	30	48	1.41						
230		6.7	1.3	40	52	1.74		1.62	100		15	162
			5.4	30	45	1.51						
245	⊥	6.9	1.4	40	51	1.77		1.46	104		15	152
			5.5	25	49	1.16						
260		6.3	1.3	40	50	1.80		1.54	94		15	145
			5.0	30	53	1.28						
275		6.0	1.2	30	42	1.61		1.54	90		15	138
			4.8	30	46	1.47						
290		5.3	1.1	40	59	1.53		1.38	80		15	110
			4.2	25	46	1.23						
305		4.5	.9	30	50	1.36		1.16	68		15	79
			3.6	20	47	.97						
320		3.2	.6	25	46	1.23		1.06	56		17½	59
			2.6	20	52	.88						
340	99	2.4	1.4	15	44			.78	48		20	37
360	98	.9	.4	15	49			.70	18	.8	20	13
380	98	1.7	1.0	10	49			.48	34	34	20	16
400		0						0	0		10	0
LEW									1789		313	2177
												69

No. 3 of 5 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 8/6/43, 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.

Recorder inspection

Pen	Stevens chart Ink		
Pencil	Turq 3B	: Record	ok clear
Wt. Adj.	no	: Chart time	40 mm F
Paper	dry	: Clock Reg.	no

Clock should be removed for cleaning (New 8-1-43)

No. of sheets

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