9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 275

Checked by CRG

Date 2/14/46

Brazos River at Richmond, Tex.

Date Jan. 19, 1946 Party W. H. Goines

Width 41.0 Area 6.370 Vel. 4.37 G. H. _____ Disch. 27.800

Method 2 No. secs. 24 G. H. change -0.05 in 0.8 hrs. Susp. 100 C 1.0

Method coef. 0.93 Hor. angle coef. As noted Meter No. 1791 Susp. coef. 1.00

GAGE READINGS				
Time		Recorder	Inside	Outside (Tape)
2:00 p.m.		16.08	16.08	16.15 est
2:55	Start		(16.03)	
3:45	Finish		(15.98)	
4:23 p.m.		15.95	15.95	–
5:30			15.90	
	Finish	U.S.W.B. w-wt.		
4:20	p.m.			16.02
~~Weighted~~ M. G. H.			16.00	
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 58.58+, 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 Showers

Other –

Gage ok

Record removed No Intake flushed No

Observer Slope stakes were set on left bank, levels to be run later.

Control channel

Remarks

RATE OF CHANGE IN STAGE: -0.05 ft./hr.

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

9-275
January 1935

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date 1/19/46, 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
LEW 470		0						0	0		5	0
460		7.0	1.4	40	48			192	105		15	200
440	⊥	11.6	2.3	50	53			2.17	232		20	500
420		12.9	2.6	80	56			3.27	258		20	840
400	⊥	12.3	2.5	100	52			4.40	246		20	1080
380	99	12.9	2.6	100	44			5.19	255	258	20	1320
360	98	13.0	2.6	100	41			5.57	255	260	20	1420
340	98	13.9	2.8	150	61			5.61	272	278	20	1530
320	98	15.0	3.0	100	44			5.19	294	300	20	1520
300	98	15.9	3.2	100	43			5.31	312	318	20	1660
280	99	16.0	3.2	100	41			5.57	317	320	20	1770
260	99	16.1	3.2	100	41			5.57	319	328	20	1780
		3.20										

No. 2 of 3 Sheets. Comp. by N.H.G. Chk. by CRG

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9-275
January 1935

UNITED STATES
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Date 1/19/41, 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
240	.99	17.1	3.4	150	59			5.80	339	342	20	1970
220	.99	18.7	3.7	100	42			5.43	370	374	20	2010
200	.99	20.1	4.0	100	43			5.31	398	402	20	2120
180	⊥	18.9	3.8	100	45			5.07	378		20	1920
160		20.2	4.0	100	47			4.86	404		20	1980
140	⊥	21.9	4.4	80	45			4.07	438		20	1780
120	⊥	24.2	4.8	80	48			3.81	423		17½	1620
105		23.0	4.6	80	49			3.74	288		12½	1080
95	⊥	20.1	4.0	80	43			4.25	201		10	860
85		14.5	2.9	80	50			3.66	145		10	530
75	⊥	9.8	2.0	40	48			1.92	123		12½	240
60 REW		0						0	0	631	7½	0

From curve dated 1943 Coeff to convert P_2 to P_{B-8} = .93

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