9-275 c
(August 1949)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

Meas. No. 514

Comp. by

Checked by

.2 depth method

DISCHARGE MEASUREMENT NOTES

Brazos River at Richmond, Tex.

Date May 14, 1957 Party Porterfields, Welborn, Sansom

Width Area Vel. G. H. Disch. 63,240

Method No. secs. G. H. change in hrs. Susp.

Method coef. Hor. angle coef. Susp. coef. Meter No.

Date rated Used rating for rod susp. Meter ft. above bottom of wt. Tags checked Spin before meas. after Meas. plots % diff. from rating Wading, cable, ice, boat, upstr., downstr., side bridge at feet, mile, above, below gage, and Check-bar, chain found changed to at Correct Levels obtained

GAGE READINGS

Time		Recorder	Inside	Outside
Weighted M. G. H.		2	25.64	
G. H. correction				
Correct M. G. H.				

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%), based on following conditions: Cross section

Flow Weather

Other Air ° F. @

Gage Water ° F. @

Record removed Intake flushed { U. L.

Observer

Control Do not use — stationing is questionable

Remarks Q = 59,900 C = .95 {computed using entire measurement

G. H. of zero flow ft. Sheet No. of sheets.

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JMS

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September 1943

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

.2 Depth.

Date May 14, 1957 **DISCHARGE MEASUREMENT NOTES**

Brazos River at Richmond, Tex.

Dist. from initial point	Depth	Observation depth	Revolutions	Time in seconds	Velocity: At point	Velocity: Mean in vertical	Velocity: Mean in section	Area	Mean depth	Width	Discharge
94	These stationing are questionable						0	0			0
110					2.89			276			800
130					4.71			502			2360
150					5.71			590			3370
170					5.81			626			3640
190					5.39			551			2970
200					5.81			384			2230
208	→ Pier ?				(5.81)			352			2040
214					(6.90)			484			3340
230					6.90			723			4980
250					6.25			833			5210
270					6.14			810			4980
290					5.52			972			5360
320					5.52			1074			5930
350					5.14			1051			5410
380					4.90			930			4560
410					3.09			858			2650
440					2.47			551			1360
460					1.90			366			700
490					2.23			433			970
520					1.63			218			360
544						.22		85			20
568						0		0			0
											63240

Angle coefficient

$\frac{Q(.28)}{Q(.2)} = \frac{59920}{63240} = .948$

(.95 used for means 10-18-57)

No. 5 of 5 Sheets. Comp. by SHH (Dec. 1957) Chk. by SHH (10-11-59)