9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. _____

Checked by _____

Date _____

Brazos River at Richmond, Tex.

Date May 27, 1947 Party W.H.Goines

Width _____ Area _____ Vel. _____ G. H. 15.16 Disch. *

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

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

GAGE READINGS

Time		Recorder	Inside	Outside
	Start			
	Finish			
Weighted M. G. H.				
G. H. correction				
Correct M. G. H.				

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 _____ feet, mile, above, below gage, and _____

Chain, wire, found _____, changed to _____ at _____

Correct length _____

Levels obtained _____

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

Flow _____ Weather _____

Other *discharge by .2-.8 23,600

do. by .2 26,450

Gage .2 coeff =.89

_____ Record removed _____ Intake flushed _____

Observer _____

Control _____

Remarks _____

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

U. S. GOVERNMENT PRINTING OFFICE 6—7440

9-275
September 1943

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date May 27, 1947 **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
Meas. re-computed by 0.2 depth method to check 0.2 depth method coeff. sta. 450 to 70.											
LEW 470		0					0	0			0
450		.2					1.44	192			280
430							2.50	290			720
410							3.06	263			800
390							3.59	224			800
370							3.81	260			990
350							3.89	309			1200
330							3.98	337			1340
310							4.25	374			1590
290							4.35	380			1650
270							4.35	374			1630
250							4.48	372			1670
230							4.76	386			1840
210							4.86	394			1910
190							4.96	364			1800
170							4.35	366			1590
150							3.89	394			1530
130							3.98	416			1660
110		.2					3.81	394			1500

Angle coefficient

No. 4 of 5 Sheets. Comp. by F.S. Chk. by MAF

9-275
September 1943

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date May 27, 1947 **DISCHARGE MEASUREMENT NOTES**

Brazos River at Richmond, Tex.

Angle coefficient

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
95		.2					4.16	302			1260
80							3.27	171			560
70		.2					1.62	78			130
60		–					0	0			0
REW											26,450

$$C = \frac{Q_{.2-.8}}{Q_{.2}} = \frac{23,550}{26,450} = .890$$

No. 5 of 5 Sheets. Comp. by F.S. Chk. by MAF