9-275 c
(July 1935)

RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 234

Checked by G.W.H.

Date 2-9-44

Brazos River at Richmond, Tex.

Date Feb. 2, 1944 Party W.H. Goines

Width 405 Area 6780 Vel. 4.22 G. H. _____ Disch. 28,600

Method .2-.8 No. secs. 21 G. H. change -0.06 in 1.1 hrs. Susp. 100<1.0

Method coef. 1.00 Hor. angle coef. As Noted Meter No. 1765 Susp. coef. 1.00

GAGE READINGS

Time	C. W. T.	Recorder	~~Inside~~ Tape	Outside
8:15 a.m.		16.54	16.55	16.6±.2
8:35	Start		(16.53)	
9:40	Finish		(16.47)	
10:05 a.m.		16.43	16.44	16.5±.2
	~~Finish~~			
~~Weighted~~ M. G. H.			16.50	
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 not read, changed to – at

Correct length –

Levels obtained –

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

Flow – Weather Favorable

Other –

Gage ok

Record removed No Intake flushed No

Observer –

Control channel.

Remarks Falling 0.05 ft/hr.

Sheet No. 1 of 3 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 2-2-44, 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 area depth	Width	Discharge
Comp. by mid sect. method Horiz ≠ coeff applied to area												
LEW 470		0						0	0		10	0
450	⊥	4.8	1.0	25	48	1.16		1.04	96		20	100
			3.8	20	48	.93						
430		7.8	1.6	40	42	2.10		1.80	156		20	280
			6.2	30	44	1.51						
410	⊥	15.7	3.1	50	46	2.39		2.20	314		20	690
			12.6	40	44	2.00						
390		19.1	3.8	80	44	3.98		3.89	382		20	1490
			15.3	80	46	3.80						
370		18.8	3.8	100	42	5.20		4.78	376		20	1800
			15.0	80	40	4.37						
350	⊥	17.1	3.4	100	40	5.45		5.06	342		20	1710
			13.7	100	48	4.55						
330	⊥	16.6	3.3	150	58	5.64		5.20	332		20	1730
			13.3	100	46	4.75						
310	99	16.7	3.3	150	57	5.74		5.30	331	334	20	1760
9:00 am			13.4	100	45	4.85						
290	99	17.6	3.5	150	59	5.55		4.96	348	352	20	1730
			14.1	80	40	4.37						
270	99	19.8	4.0	100	40	5.45		4.91	392	396	20	1930
			15.8	50	25	4.37						
250	99	21.2	4.2	100	48	4.55		4.16	420	424	20	1770
			17.0	50	29	3.77						

No. 2 of 3 Sheets. Comp. by MHG Chk. by

8:45 am
Pm 16.54
T 16.55
O 16.6±0.2

10:05
P16.43
T16.44
O16.5±0.2

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Date 2-2-44, 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
230	⊥	20.6	4.1	100	42	5.20		4.68	412		20	1930
9:15 am			16.5	80	42	4.16						
210		20.8	4.2	100	45	4.85		4.61	416		20	1920
			16.6	40	20	4.37						
190	⊥	21.7	4.3	100	42	5.20		4.46	434		20	1940
			17.4	80	47	3.72						
170	⊥	20.5	4.1	100	44	4.96		4.38	410		20	1800
			16.4	80	46	3.80						
150	⊥	19.7	3.9	100	50	4.37		4.22	394		20	1660
			15.6	80	43	4.07						
130	⊥	22.2	4.4	80	42	4.16		3.90	444		20	1730
			17.8	80	48	3.65						
110		21.8	4.4	100	55	3.98		3.68	436		20	1600
			17.4	80	52	3.37						
90		14.5	2.9	80	47	3.72		3.11	326		22½	1020
			11.6	50	44	2.50						
65		0						0	0		12½	0
REW											405	
									6781			28,560

Downstr. from pier & recorder.

9:40

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

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