9-275 c
(July 1935)

Water T = 69°
@ 3:15 pm

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 525

Checked by SHH

Date 1-6-58

BRAZOS RIVER AT RICHMOND, TEXAS

Date NOV. 5, 1957 Party LAMAR & SAUER

Width 350 Area ~~5200~~ 5180 Vel. 2.28 4 G. H. _____ Disch. 11,600

Method 2-8 No. secs. 25 G. H. change 0 in 1.3 hrs. Susp. 50 c.g

Method coef. 1.00 Hor. angle coef. noted Meter No. 2815 Susp. coef. 1.00

GAGE READINGS				
Time	W.W.	TAPE ~~Recorder~~	Inside	Outside
12:15 PM	10.92	10.89		10.89
1:08 PM	Start	10.88		
KHD	S	(10.89)		
2:57	f	(10.89)		
	Finish			
3:15 pm	10.95	10.89		10.89
Weighted M. G. H.		10.89		
G. H. correction				
Correct M. G. H.				

Date rated ~~Feb 16 1949~~ Nov. 5, 1950 Used rating for rod 5 susp. Meter 0.9 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 at feet, mile, above, below gage, and

Chain, wire, found 58.70 —, changed to _____ at _____

Correct length 58.68

Levels obtained _____

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

Flow smooth Weather hot - clear

Other —

Gage ~~ok~~ - Repaired carriage and carriage bars - Replaced Pen - Removed pencil Record removed Yes Intake flushed No

Observer not seen

Control bed & banks - Partial sand bar several hundred feet downstream

Remarks (MIN. PK. IND. 1.44) BOTH RESET at 10.90
(MAX. PK. IND. 32.90) approx 1' max surge each direction
Constant stage

Reviewed
[signature]
Engr. in chg.

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

U. S. GOVERNMENT PRINTING OFFICE 6—7440

9-275
January 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

Date Nov 5, 1957 **DISCHARGE MEASUREMENT NOTES**

Brazos River at Richmond, Tex

Angle coefficient	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity At point	Velocity Mean in vertical	Adjusted for hor. angle ~~or~~	Area	Discharge
			Meter	2815	50	c.9					
—	628	11	0		LEW	@ 1:40	pm.				
.97	650	21	4.2	2.5	7	40		.42	86	88	36
.98	670	17½	10.1	2.0	15	56	.62	.63	174	177	110
				8.1	15	54	.64				
.98	685	15	11.7	2.3	20	40	1.13	1.26	172	175	217
				9.4	25	40	1.40				
.96	700	15	13.2	2.6	25	42	1.33	1.44	190	198	274
				10.6	30	43	1.56				
.96	715	15	14.0	2.8	40	47	1.89	1.93	202	210	390
				11.2	40	45	1.97				
.95	730	15	14.9	3.0	40	41	2.16	2.24	213	222	478
				11.9	60	57	2.33				
.94	745	15	16.1	3.2	50	41	2.69	2.50	228	242	570
				12.9	50	48	2.31				
.93	760	15	16.6	3.3	60	48	2.76	2.64	232	249	612
				13.3	50	44	2.51				
.91	775	15	17.0	3.4	60	45	2.94	2.91	232	255	675
				13.6	60	46	2.88				
.88	790	15	17.6	3.5	60	46	2.88	2.70	232	264	626
WWS=10.96		@ 2:15 pm		14.1	50	44	2.51				
.93	805	15	17.9	3.6	60	44	3.01	2.88	249	268	717
				14.3	50	40	2.76				4699

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

9-275
January 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

Date Nov. 5, 19 57 **DISCHARGE MEASUREMENT NOTES**

Brazos River at Richmond, Tex.

Angle coefficient	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	Velocity: At point	Velocity: Mean in vertical	Adjusted for hor. angle or ---	Area	Discharge 4699
.98	820	15	18.4	3.7	50	42	2.63	2.76	271	276	747
				14.7	60	46	2.88				
.95	835	15	19.8	4.0	60	47	2.82	2.85	282	297	804
				15.8	60	46	2.88				
.97	850	15	21.4	4.3	60	46	2.88	2.82	311	321	877
				17.1	50	40	2.76				
.95	865	11½ ~~15~~	26.4	5.3	60	44	3.01	2.64	289	304	762
	-14			21.1	50	49	2.26				
⊙ .92	873	8½	25.9	5.2	60 ~~50~~	~~42~~ 45	2.95	2.98	198 ~~202~~	194 ~~220~~	~~602~~ 529
(7' Pier out)				20.7	60	44	3.01				
.99	887	10	28.3	5.7	50	49	2.26	1.94	280	283	543
				22.6	30	41	1.63				
⊥	900	14	26.7	5.3	50	43	2.57	1.84	374		688
				21.4	20	41	1.10				
⊥	915	15	17.4	3.5	50	43	2.57	2.27	261		593
				13.9	40	45	1.97				
⊥	930	15	17.8	3.6	40	41	2.16	2.04	267		544
				14.2	40	46	1.93				
⊥	945	15	15.2	3.0	40	42	2.11	1.85	228		422
				12.2	30	42	1.59				
⊥	960	17½	11.5	2.3	40	46	1.93	1.72	208		347
				9.2	30	44	1.52				
⊥	980	12½	2.0	1.1	20	50		.91	25		23
	985	2½ ~~0~~			REW @ 2:57 pm				~~5200~~		0

No. 3502 of 3 Sheets. Comp. by 517 Chk. by 11649 11583