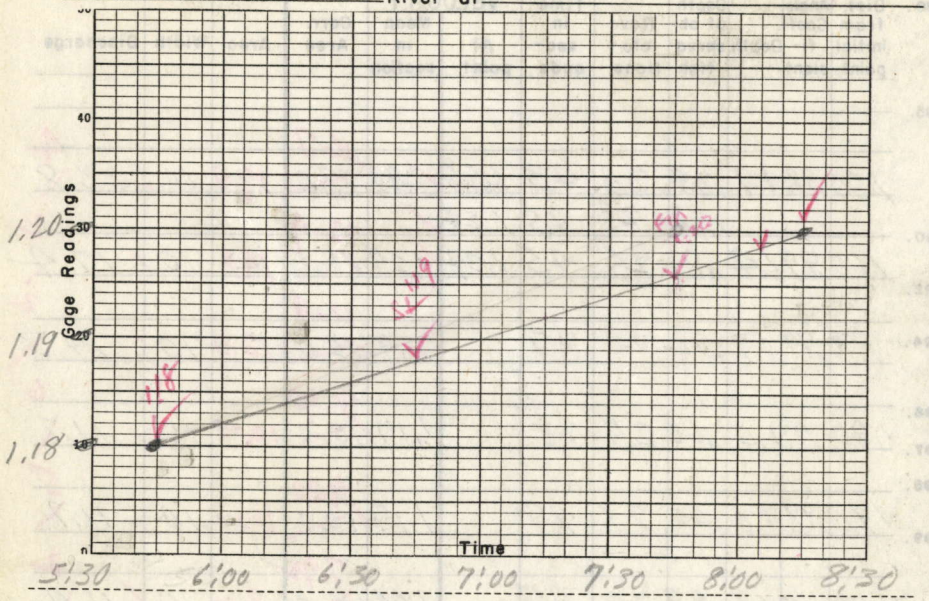
River at




Page ____ of ____

RECORDED

A-34

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Branch

Water temp. 78 °F
Air temp. 80 °F
Time 8:00 a.m.

DISCHARGE MEASUREMENT NOTES

Meas. No. 399
Checked by [illegible]
Date 9-10-52

Brazos River at Richmond, Tex.

Date Sept 4, 1952 Party R.L. Smith

Width 240 Area 386.5 Vel. 1.69 G.H. ____ Disch. 653

Method .6 + .2/.8 No. Secs. 25 G.H. Chng. +.01 ft. per hr. Time meas. 1.0 hrs.

Meter No. 2830 Date Rated 3/22/49 Susp. rod Susp. Coef. 1.00

Method Coef. 1.00 Hor. angle Coef. ~~1.00~~ Noted Used rating for, rod — Susp.

GAGE READINGS

| Time | Meas | Recorder | Tape | Inside | Outside |
|---|---|---|---|---|---|
| 5:45 am | | | 1.18 | | 1.18 |
| | | | | | |
| 6:45 am (S) | | | (1.19) | | |
| 7:45 am (F) | | | (1.20) | | |
| 8:15 am | | | 1.20 | | 1.20 |
| | | | | | |
| | | | | | |
| 8:10 am | | | w.wt | | 1.20 |
| ~~Weighted~~ MGH | | | 1.20 | | |
| GH Corr. | | | | | |
| Correct MGH | | | | | |

Meter 0 ft. above bottom of weight

Spin before meas. ok after ok

Wading, ~~cable, ice, boat, upstr., downstr., side bridge~~ 2 ~~foot~~, mile, ~~above~~, below gage, and —

~~Chain~~, wire, found 58.69 at ____ G-Sta.

Changed to — at —

Correct length 58.68

Levels Obtained —

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

Cross section even

Flow smooth Weather nice

Other —

Gage ok

Record removed yes Intakes flushed no

Pencil 4B Wt. Adj. No Paper dry

Record clear Chart time ok Clock Reg. No

Observer —

Control —

Remarks Installed new roll stevens paper

Page 1 of 3 G.H. of zero flow ____ ft.

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 section | Corr. Area | Area | Width | Discharge |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | 0 | REW | | 6:45 | | A p.M. 0 | | | 5 | 0 |
| 10 | | 1.3 | .78 | 25 | 46 | | 1.22 | 13.0 | | 10 | 15.9 |
| | | | 1.57 | 25 | 45 | 1.24 | | | | | |
| 20 | | 1.9 | .38 | 30 | 40 | 1.67 | 1.46 | 19.0 | | 10 | 27.8 |
| | | | 1.92 | 30 | 45 | 1.48 | | | | | |
| 30 | | 2.4 | .48 | 30 | 40 | 1.67 | 1.58 | 24.0 | | 10 | 37.9 |
| | | | 1.54 | 30 | 43 | 1.55 | | | | | |
| 40 | | 2.7 | .54 | 40 | 51 | 1.74 | 1.64 | 27.0 | | 10 | 44.3 |
| | | | 2.16 | 30 | 43 | 1.55 | | | | | |
| 50 | | 2.0 | .40 | 40 | 42 | 2.11 | 1.89 | 20.0 | | 10 | 37.8 |
| | | | 1.60 | 30 | 40 | 1.67 | | | | | |
| 60 | | 1.7 | .34 | 40 | 40 | 2.22 | 2.10 | 17.0 | | 10 | 35.7 |
| | | | 1.36 | 40 | 45 | 1.97 | | | | | |
| 70 | | 1.5 | .90 | 40 | 44 | 2.02 | 2.02 | 15.0 | | 10 | 30.3 |
| 80 | | 1.8 | .36 | 40 | 40 | 2.22 | 1.94 | 18.0 | | 10 | 35.0 |
| | | | 1.44 | 30 | 40 | 1.67 | | | | | |
| 90 | | 2.2 | .44 | 40 | 40 | 2.22 | 1.98 | 22.0 | | 10 | 43.6 |
| | | | 1.76 | 40 | 51 | 1.74 | | | | | |
| 100 | | 2.4 | .48 | 50 | 48 | 2.31 | 2.10 | 24.0 | | 10 | 50.4 |
| | | | 1.92 | 40 | 47 | 1.89 | | | | | |
| 110 | | 2.4 | .48 | 40 | 40 | 2.22 | 2.00 | 24.0 | | 10 | 48.0 |
| | | | 1.92 | 40 | 50 | 1.78 | | | | | |
| 120 | | 2.0 | .4 | 40 | 43 | 2.06 | 1.87 | 20.0 | | 10 | 37.4 |
| | | | 1.6 | 30 | 40 | 1.67 | | | | | |
| 130 | | 2.2 | .44 | 40 | 40 | 2.22 | 1.95 | 22.0 | | 10 | 43.8 2.9 |
| | | | 1.76 | 40 | 53 | 1.68 | | | | | |
| 140 | | 2.0 | .4 | 40 | 50 | 1.78 | 1.60 | 20.0 | | 10 | 32.0 |
| | | | 1.6 | 30 | 47 | 1.42 | | | | | |

Page 2 of 3 Comp. by: RLS Checked by: _____

| Dist. from initial point | Angle Coefficient | Depth | Depth of observation | Revolutions | Time in seconds | VELOCITY At point | VELOCITY Mean in section | Corr. Area | Area | Width | Discharge |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 150 | .98 | 1.7 | .34 | 30 | 43 | 1.55 | 1.40 | 16.7 17.0 | 17.0 | 10 | 23.8 4 |
| | | | 1.36 | 25 | 45 | 1.24 | | | | | |
| 160 | .99 | 1.4 | .84 | 25 | 45 | 1.24 | 1.24 | 13.9 14.0 | 14.0 | 10 | 17.4 2 |
| 170 | .99 | 1.2 | .72 | 25 | 47 | | 1.19 | 11.9 12.0 | 12.0 | 10 | 14.3 2 |
| 180 | .99 | 1.0 | .60 | 25 | 48 | | 1.17 | 9.90 10.0 | 10.00 | 10 | 11.7 6 |
| 190 | .98 | 1.0 | .60 | 25 | 48 | | 1.17 | 9.80 10.0 | 10.00 | 10 | 11.7 5 |
| 200 | .99 | .8 | .48 | 30 | 47 | | 1.42 | 7.94 8.0 | 8.00 | 10 | 11.4 2 |
| 210 | | 1.0 | .6 | 30 | 45 | | 1.48 | 10.0 | | 10 | 14.8 |
| 220 | | 1.0 | .6 | 30 | 46 | | 1.45 | 10.0 | | 10 | 14.5 |
| 230 | | 1.0 | .6 | 25 | 40 | | 1.39 | 10.0 | | 10 | 13.9 |
| 240 | | | LEW | | 7:45 | | a.m. | 0 | | 5 | 0 |
| | | | | | | | | 386 | | 240 | 652.60 |

Page 3 of 3 Comp. by: RLS Checked by: _____