

TEXAS BOARD OF WATER ENGINEERS

Durwood Manford, Chairman  
R. M. Dixon, Member  
O. F. Dent , Member

Larry S. Campbell  
Parks and Wildlife Dept.  
4002 North Chadbourne St.  
San Angelo, Texas  
BULLETIN 5906

RECORDS OF WATER-LEVEL MEASUREMENTS IN  
CRANE AND MIDLAND COUNTIES, TEXAS  
1937 THROUGH 1957

Compiled by

Frank A. Rayner, Geological Engineer  
Texas Board of Water Engineers

Prepared in cooperation with the Geological Survey,  
United States Department of the Interior

March 1959

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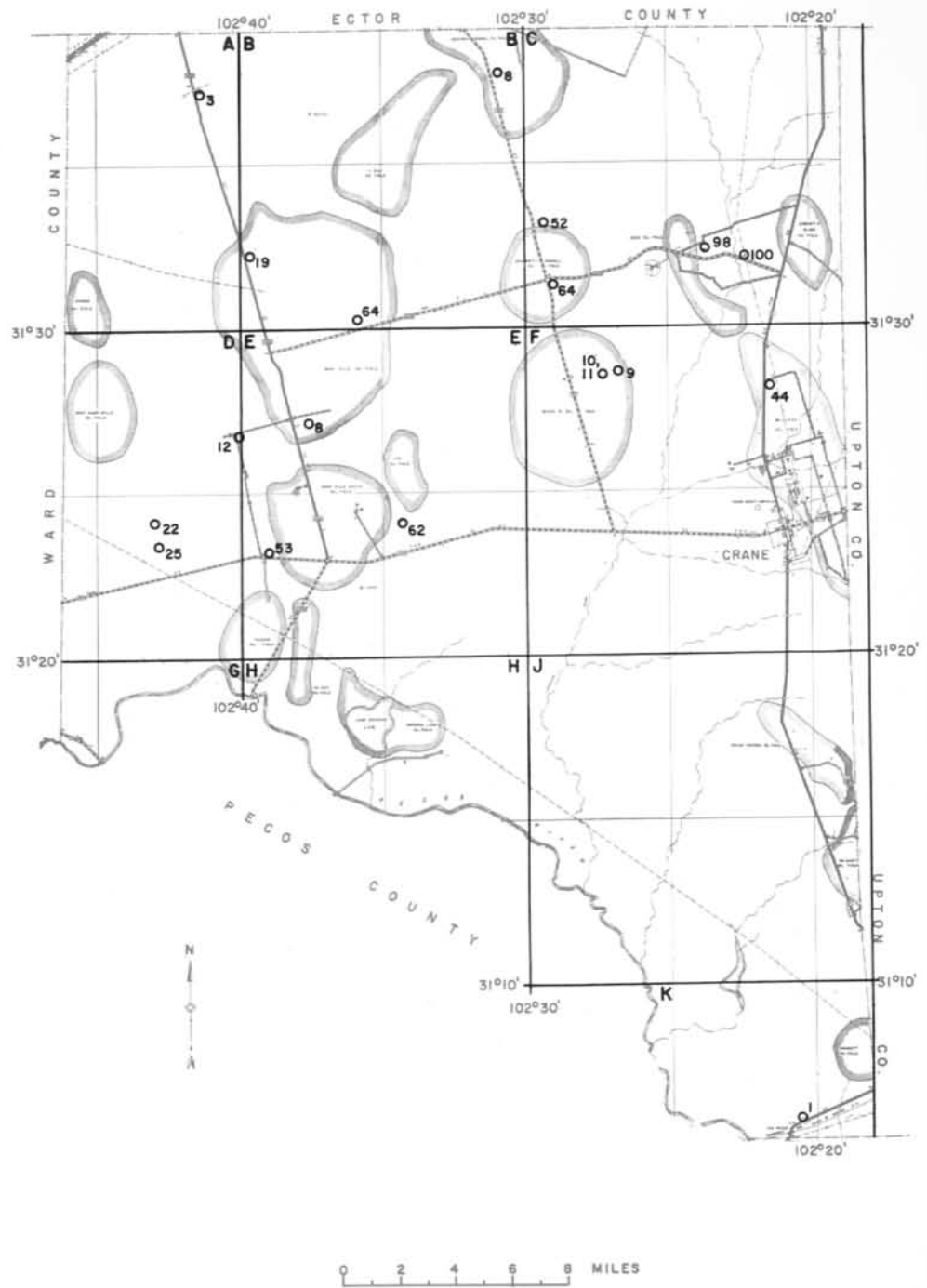
INTRODUCTION

The Texas Board of Water Engineers is charged with making, independently or in cooperation with other State and Federal agencies, scientific investigations of the source, amount, and quality of ground-water supplies. To evaluate effects of ground-water development in relation to available supply, periodic measurements of water levels are made in principal reservoirs of the State through an observation well program conducted cooperatively by the Texas Board of Water Engineers and the United States Geological Survey.

This bulletin contains measurements of the depth to water in feet below land-surface datum in 19 wells in Crane County and 15 wells in Midland County. The period of record covers measurements made in observation wells from 1937 through 1957.

Observation well location maps precede the corresponding table of water-level measurements for each county. Hydrographs illustrating the fluctuation of monthly high water levels in Well A-34 and Well A-20, combined with a monthly precipitation chart for Midland, follow the associated table of water-level measurements.

CRANE COUNTY



BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

Feb. 1959 DF

### OBSERVATION WELLS IN CRANE COUNTY, TEXAS

WATER-LEVEL MEASUREMENTS IN CRANE COUNTY, TEXAS

A-3. Lat.  $31^{\circ}37'$ , long.  $102^{\circ}41'$ . Diameter 8 inches, depth 94 feet.

Date	Water Level	Date	Water Level	Date	Water Level
Nov. 17, 1954	41.48	Dec. 4, 1955	42.21	Dec. 7, 1956 b	46.10

B-8. Lat.  $31^{\circ}37'$ , long.  $102^{\circ}30'$ . Diameter 6 inches.

Sept. 22, 1954	45.72	Dec. 7, 1956	47.44	Dec. 6, 1957	48.29
Dec. 5, 1955	45.89				

B-19. Lat.  $31^{\circ}32'$ , long.  $102^{\circ}39'$ . Diameter 8 inches, depth 105 feet.

Nov. 4, 1954	58.65	Dec. 7, 1956	59.15	Dec. 6, 1957	59.32
Dec. 4, 1955	58.84				

B-64. Lat.  $31^{\circ}30'$ , long.  $102^{\circ}35'$ . Diameter 12 inches, depth 61 feet.

Sept. 27, 1954	43.82	Dec. 7, 1956	44.73	Dec. 6, 1957	45.03
Dec. 4, 1955 a	57.82				

C-52. Lat.  $31^{\circ}33'$ , long.  $102^{\circ}29'$ . Diameter 7 inches, depth 105 feet.

Feb. 1954	55.5	Dec. 5, 1955	57.70	Dec. 7, 1956	58.12
May	58.6				

C-64. Lat.  $31^{\circ}31'$ , long.  $102^{\circ}29'$ . Diameter 8 to 7 inches, depth 84 feet, casing slotted from 61 to 84 feet.

Sept. 16, 1954	41.86	Dec. 13, 1954	41.94	Dec. 6, 1957	43.80
Oct. 21	41.95	Dec. 5, 1955	42.62		
Nov. 17	41.95	Dec. 7, 1956	43.14		

C-98. Lat.  $31^{\circ}32'$ , long.  $102^{\circ}22'$ . Diameter 6 inches.

Sept. 26, 1954	48.95	Dec. 8, 1956 a	60.52	Dec. 6, 1957	47.57
Dec. 5, 1955 b	55.44				

C-100. Lat.  $31^{\circ}32'$ , long.  $102^{\circ}22'$ . Diameter 6 inches.

Dec. 5, 1955	58.95	Dec. 8, 1956	61.70	Dec. 6, 1957	58.15
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WATER-LEVEL MEASUREMENTS IN CRANE COUNTY -- CONTINUED

F-11. Lat. 31°28', long. 102°27'. Diameter 10 inches, depth 230 feet.

Date	Water Level	Date	Water Level	Date	Water Level
Dec. 5, 1955	43.98	Dec. 8, 1956	45.25	Dec. 6, 1957	44.91

F-44. Lat. 31°28', long. 102°21', Diameter 4 inches, depth 94 feet.

Dec. 18, 1954	62.3	Dec. 5, 1955	62.21	Dec. 5, 1957	62.16
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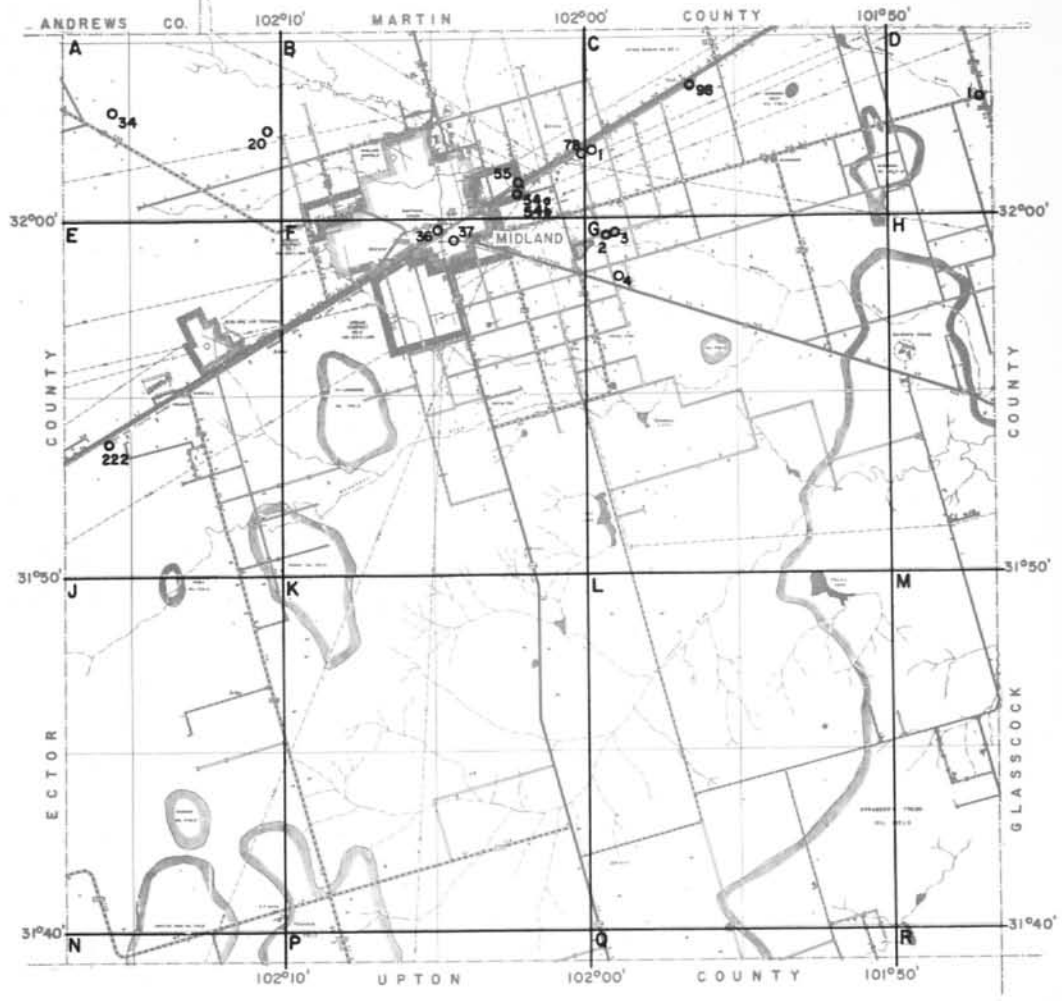
K-1. Lat. 31°05', long. 102°20'. Diameter 6 inches.

Dec. 5, 1955	24.68	Dec. 8, 1957	22.71		
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- a Pumping
- b Pumped recently

M I D L A N D   C O U N T Y





BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

Feb. 1959 - DF

### OBSERVATION WELLS IN MIDLAND COUNTY, TEXAS

WATER-LEVEL MEASUREMENTS IN MIDLAND COUNTY, TEXAS

36. Lat. 31°59', long. 102°09'. Diameter 6 inches, depth 76 feet.

Date	Water Level	Date	Water Level	Date	Water Level
June 28, 1937	32.90	Apr. 28, 1938	33.03	Jan. 17, 1940	32.72
Aug. 5	32.90	July 21	32.93	Aug. 1	33.35
Jan. 24, 1938	32.96	Aug. 11, 1939	33.04	Nov. 23	33.41

37. Lat. 31°59', long. 102°04'. Diameter 6 inches, depth 84 feet.

June 28, 1937	42.72	July 21, 1938	43.78	Nov. 23, 1940	40.80
Aug. 5	43.91	Aug. 11, 1939	44.11	Dec. 16, 1941	38.30
Jan. 24, 1938	43.78	Jan. 17, 1940	40.45	July 7, 1949	37.64
Apr. 28	43.63	Aug. 1	44.57		

54a. Lat. 32°00', long. 102°02'. Diameter 72 inches.

Aug. 5, 1937	19.99	Aug. 11, 1939	20.26	Nov. 23, 1940	22.36
July 21, 1938	20.11	Jan. 17, 1940	21.17	Dec. 16, 1941	15.84
Jan. 27, 1939	19.02	Aug. 1	21.67		

54b. Lat. 32°00', long. 102°02'. Diameter 25 inches.

July 21, 1938	11.58	Jan. 17, 1940	12.67	Nov. 23, 1940	13.88
Aug. 11, 1939	11.92	Aug. 1	13.34		

55. Lat. 32°00', long. 102°02'. Diameter 8 inches, depth 76 feet.

June 1, 1937	27.05	July 21, 1938	28.05	Aug. 1, 1940	29.25
Aug. 6	27.05	Jan. 27, 1939	27.41	Nov. 23	29.56
Jan. 24, 1938	27.72	Aug. 11	28.13	Dec. 16, 1941	26.85
Apr. 28	27.94	Jan. 17, 1940	28.31	July 7, 1949	35.51

78. Lat. 32°01', long. 102°00'. Diameter 5 inches, depth 69 feet.

July 10, 1937	50.8	Aug. 11, 1939	50.31	Dec. 16, 1941	49.91
Apr. 28, 1938	50.87	Jan. 17, 1940	50.16	July 7, 1949	47.90
July 20	50.56	Aug. 1	50.17		
Jan. 27, 1939	50.20	Nov. 23	50.16		

WATER-LEVEL MEASUREMENTS IN MIDLAND COUNTY -- CONTINUED

C-1. Lat.  $32^{\circ}01'$ , long.  $101^{\circ}59'$ . Depth 86 feet.

Date	Water Level	Date	Water Level	Date	Water Level
Dec. 2, 1955	48.38	Dec. 14, 1956	49.84	Dec. 7, 1957	48.38

D-1. Lat.  $32^{\circ}03'$ , long.  $101^{\circ}47'$ . Diameter 6 inches.

Dec. 7, 1954	20.10	Dec. 14, 1956	19.75	Dec. 7, 1957	19.46
Dec. 2, 1955	18.82				

G-2. Lat.  $31^{\circ}59'$ , long.  $101^{\circ}59'$ .

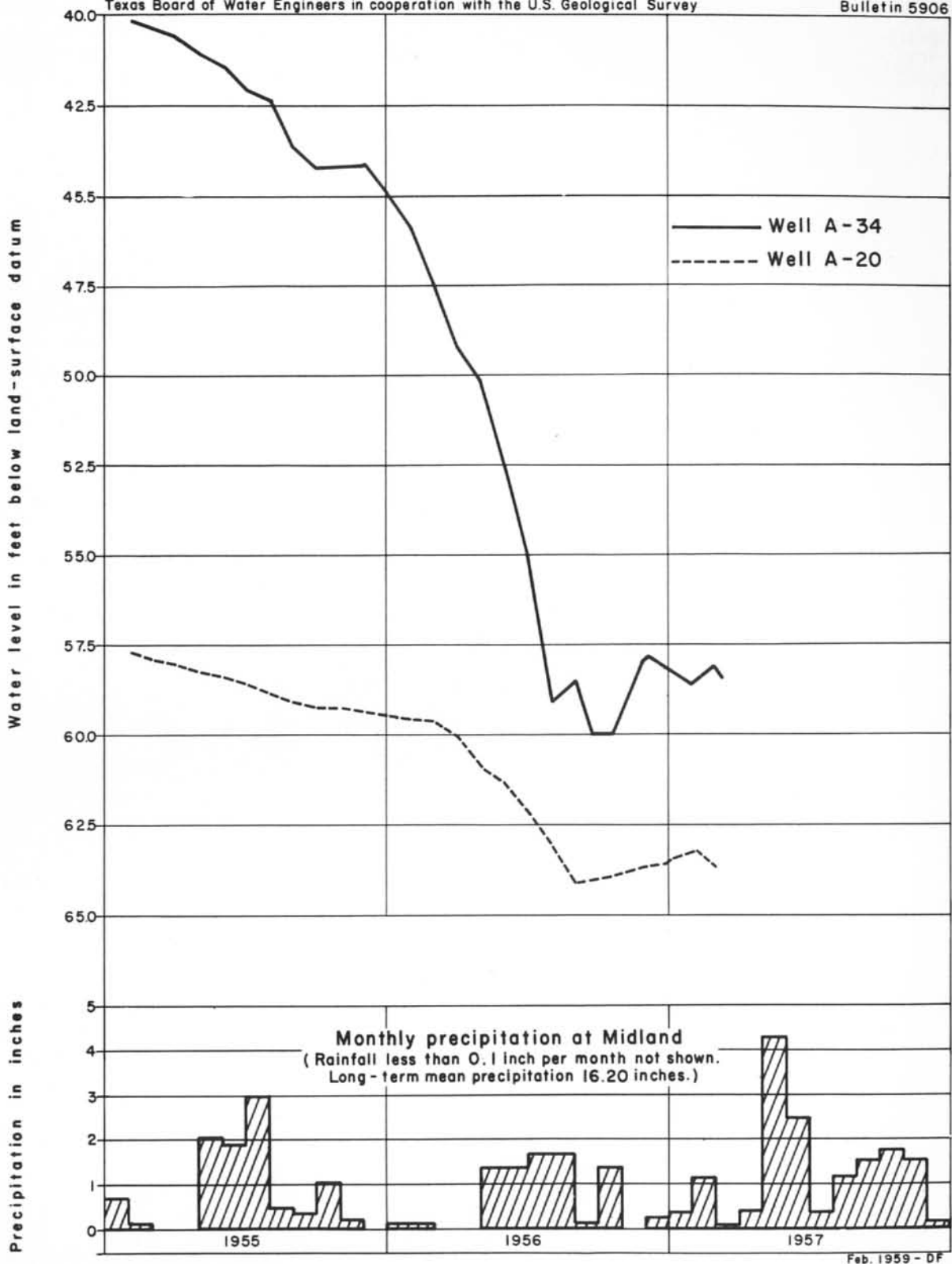
Dec. 3, 1955	42.00	Dec. 14, 1956	49.35	Dec. 7, 1957	57.92
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G-3. Lat.  $31^{\circ}59'$ , long.  $101^{\circ}59'$ .

Dec. 3, 1955	43.40	Dec. 14, 1956	52.02	Dec. 7, 1957	53.96
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G-4. Lat.  $31^{\circ}58'$ , long.  $101^{\circ}58'$ .

Dec. 3, 1955	53.02	Dec. 14, 1956	57.17	Dec. 7, 1957	60.91
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HYDROGRAPHS OF MONTHLY HIGH WATER LEVELS FROM RECORDER CHART IN WELL A-34, AND WELL A-20, MIDLAND COUNTY, AND MONTHLY PRECIPITATION AT MIDLAND, TEXAS