

TEXAS BOARD OF WATER ENGINEERS

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BULLETIN 5406

RECORDS OF WATER-LEVEL MEASUREMENTS IN  
BAILEY, BRISCOE, CASTRO, PARMER, POTTER, AND RANDALL COUNTIES, TEXAS

Compiled by

C. R. Follett, Engineer

Texas Board of Water Engineers

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

April 1954

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This bulletin contains measurements of the depth-to-water below land-surface datum in wells in Bailey, Briscoe, Castro, Parmer, Potter, and Randall Counties, in the Southern High Plains of Texas. It is one of a series of publications by the Texas Board of Water Engineers which contains measurements of the water levels in selected observation wells. The measurements cover a period from 1913 to January 1954.

Inventories of water wells have been made in these counties and the results published in mimeographed form. Water-level measurements made at the time of inventory are included in this bulletin. Water-level measurements have been made each year as a part of a cooperative program of ground-water investigations by the United States Geological Survey and the Texas Board of Water Engineers. A few early measurements made in 1913-14 by C. L. Baker and some measurements made by the Soil Conservation Service of the Department of Agriculture are included.

If more than one water-level measurement was made during a month, only the highest water level is given in this report. The accompanying maps show the locations of the observation wells. Hydrographs showing fluctuations

of water levels and precipitation are given for all except Potter County. Records of water wells, geologic data, pumpage data, and discussion of water levels are given in the following list of publications.

## LIST OF PUBLICATIONS

- ALEXANDER, W. H., JR., and BROADHURST, W. L., 1942, Progress report on ground water in the High Plains of Texas.\*
- ALEXANDER, W. H. JR., and OTHERS, 1943, Progress report on ground water in the High Plains of Texas.\*
- ALEXANDER, W. H., JR., and LANG, JOE W., 1945, Ground water in the High Plains of Texas, Progress Report No. 5.\*
- ALEXANDER, W. H., JR., and DANTE, JOHN H., 1946, Ground water resources of the area southwest of Amarillo, Texas.
- BAKER, C. L., 1915, Geology and underground waters of the Northern Llano Estacado: University of Texas Bulletin 57.\*
- BALDWIN, B. F., and HINSON, H. H., 1936, Records of wells in Bailey County.\*
- BARNES, J. R., and OTHERS, 1949, Geology and ground water in the irrigated region of the Southern High Plains in Texas, Progress Report No. 7.
- BROADHURST, W. L., 1937, Records of wells in Bailey County.
- \_\_\_\_\_, 1947, Ground water in High Plains in Texas, Progress Report No. 6.\*
- BROADHURST, W. L., and ALEXANDER, W. H., JR., 1944, Progress report on ground water in the High Plains in Texas.
- BROADHURST, W. L., SUNDSTROM, R. W., and WEAVER, D. E., 1949, Public water supplies in western Texas, U. S. Geol. Survey Water-Supply Paper 1106.
- BURLEIGH, H. P., and WELLS, H. M., 1936, Preliminary report on the underground water supply of Plainview and vicinity, Texas.\*
- CHRISTIAN, W. G., and SMYERS, L. C., 1938, Records of wells in Randall County.
- DANTE, JOHN H., 1946, Records of wells in Briscoe County.
- FOLLETT, C. R. and BRADSHAW, E. L., 1938, Records of wells in Parmer County.
- GOULD, C. N., 1906, The geology and water resources of the eastern portion of the Panhandle of Texas, U. S. Geol. Survey Water-Supply Paper 154.\*
- HUGHES, WILLIAM F., 1951, Cost of pumping water for irrigation Texas High Plains.
- JOHNSON, W. D., 1902, The High Plains and their utilization, U. S. Geol. Survey 21st Ann. Rept., pt. 4, Hydrology, pp. 609-741, 1901; 22d Ann. Rept. pt. 4 Hydrography, pp. 637-669.

## LIST OF PUBLICATIONS

- LEGGAT, E. R., 1951, Development of wells for irrigation and fluctuations of water levels in the High Plains of Texas to January 1951, Bulletin 5104.
- \_\_\_\_\_, 1954, Summary of ground-water development in the Southern High Plains of Texas, Bulletin 5402.
- MEINZER, O. E., and WENZEL, L. K., 1938, Water levels and artesian pressure in observation wells in the United States in 1937, U. S. Geol. Survey Water-Supply Paper 840.
- \_\_\_\_\_, 1939, Water levels and artesian pressure in observation wells in the United States in 1938, U. S. Geol. Survey Water-Supply Paper 845.
- \_\_\_\_\_, 1940, Water levels and artesian pressure in observation wells in the United States in 1939, U. S. Geol. Survey Water-Supply Paper 886.
- \_\_\_\_\_, 1941, Water levels and artesian pressure in observation wells in the United States in 1940, Part 4, U. S. Geol. Survey Water-Supply Paper 909.
- \_\_\_\_\_, 1943, Water levels and artesian pressure in observation wells in the United States in 1941, Part 4, U. S. Geol. Survey Water-Supply Paper 939.
- \_\_\_\_\_, 1944, Water levels and artesian pressure in observation wells in the United States in 1942, Part 4, U. S. Geol. Survey Water-Supply Paper 947.
- \_\_\_\_\_, 1944, Water levels and artesian pressure in observation wells in the United States in 1943, Part 4, U. S. Geol. Survey Water-Supply Paper 989.
- PATTON, LEROY T., 1923, The geology of Potter County, University of Texas Bulletin 2330.
- RYMAN, FLOYD J., LANG, JOE W., and BROADHURST, W. L., 1939, Records of wells in Castro County.
- SAYRE, A. N., and OTHERS, 1947, Water levels and artesian pressure in observation wells in the United States in 1944, Part 4, U. S. Geol. Survey Water-Supply Paper 1019.
- \_\_\_\_\_, 1948, Water levels and artesian pressure in observation wells in the United States in 1945, Part 4, U. S. Geol. Survey Water-Supply Paper 1026.

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SAYRE, A. N., and OTHERS, 1949, Water levels and artesian pressure in observation wells in the United States in 1946, Part 4, U. S. Geol. Survey Water-Supply Paper 1074.

\_\_\_\_\_, 1950, Water levels and artesian pressure in observation wells in the United States in 1947, Part 4, U.S. Geol. Survey Water-Supply Paper 1099.

\_\_\_\_\_, 1951, Water levels and artesian pressure in observation wells in the United States in 1948, Part 4, U. S. Geol. Survey Water-Supply Paper 1129.

\_\_\_\_\_, 1951, Water levels and artesian pressure in observation wells in the United States in 1949, Part 4, U. S. Geol. Survey Water-Supply Paper 1159.

\_\_\_\_\_, 1952, Water levels and artesian pressure in observation wells in the United States in 1950, Part 4, U. S. Geol. Survey Water-Supply Paper 1168.

SMYERS, L. C., 1938, Records of wells in Potter County.\*

WHITE, W. N., and OTHERS, 1938, Ground water in the High Plains in Texas.\*

\_\_\_\_\_, 1946, Ground water in the High Plains in Texas, 1940, U. S. Geol. Survey Water-Supply Paper 889-F.

\_\_\_\_\_, 1940, Ground water in the High Plains in Texas.\*

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\*Out of print. Copies available for reference in some public libraries and at the Austin office of the United States Geological Survey.

STATE OF TEXAS  
COUNTY OF BAILEY  
WELLS

BAILEY COUNTY, TEXAS  
OBSERVATION WELLS  
January 1954

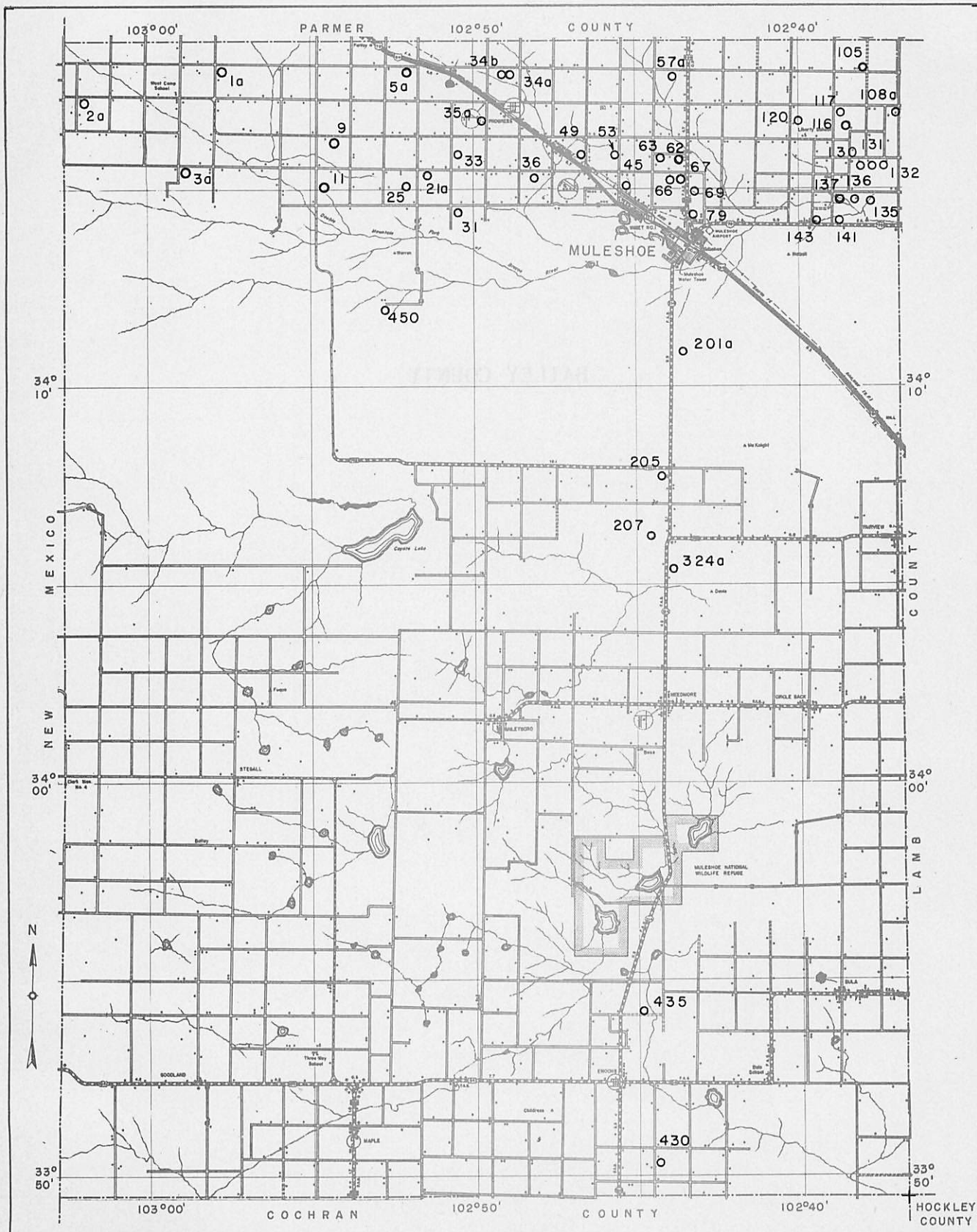
BAILEY COUNTY



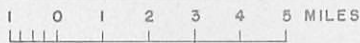
# BAILEY COUNTY, TEXAS OBSERVATION WELLS

January 1954

Bulletin 5406  
Texas Board of Water Engineers  
in cooperation with  
U. S. Geological Survey



Base map from Texas State  
Highway Department



## BAILEY COUNTY

1a. Lat. 34°18', long. 102°57'.

Date	Water level	Date	Water level	Date	Water level
Mar. 29, 1949	90.80	Jan. 20, 1951	93.60	Jan. 6, 1953	96.69
Feb. 15, 1950	96.12	Jan. 15, 1952	95.73	Jan. 9, 1954	98.50

2a. Lat. 34°17', long. 103°01'.

Date	Water level	Date	Water level	Date	Water level
Mar. 29, 1949	93.32	Jan. 15, 1952	96.18	Jan. 9, 1954	97.89
Feb. 13, 1950	98.32	Jan. 7, 1953	96.06		

3a. Lat. 34°15', long. 102°58'.

Date	Water level	Date	Water level	Date	Water level
Mar. 29, 1949	48.30	Jan. 20, 1951	53.73	Jan. 6, 1953	52.34
Feb. 13, 1950	48.75	Jan. 15, 1952	51.18	Jan. 9, 1954	53.96

5a. Lat. 34°17', long. 102°52'.

Date	Water level	Date	Water level	Date	Water level
June 22, 1937	63.55	Dec. 6, 1939	63.18	Jan. 15, 1947	63.56
Sept. 1	63.55	Feb. 26, 1940	63.13	Mar. 30	63.48
Nov. 20	63.50	Nov. 14	63.37	Mar. 13, 1948	64.34
Jan. 1, 1938	65.03	Jan. 27, 1941	63.30	Mar. 17, 1949	66.13
June 10	63.44	Mar. 7	63.33	Feb. 14, 1950	67.42
Sept. 16	63.41	Nov. 10	39.22	Jan. 20, 1951	69.90
Oct. 25	63.32	Mar. 17, 1942	53.65	Jan. 15, 1952	72.27
Dec. 1	63.36	July 29	51.92	Jan. 10, 1953	74.55
Mar. 9, 1939	63.24	Feb. 10, 1944	62.42	Jan. 9, 1954	78.40
July 8	63.22	Feb. 10, 1945	62.48		
Sept. 14	63.22	Feb. 28, 1946	62.50		

9. Lat. 34°16', long. 102°54'. Depth 79 feet.

Date	Water level	Date	Water level	Date	Water level
Oct. 20, 1936	40.37	Feb. 26, 1940	39.07	Feb. 28, 1946	39.25
Jan. 27, 1937	39.92	Nov. 14	40.16	Jan. 15, 1947	41.80
Nov. 20	39.77	Jan. 27, 1941	39.83	Mar. 20	41.30
Jan. 11, 1938	39.65	Mar. 10	39.79	Mar. 13, 1948	43.53
Mar. 30	39.65	July 30	39.16	Mar. 17, 1949	47.40
Sept. 16	39.71	Nov. 10	38.25	Feb. 13, 1950	48.88
Oct. 25	39.48	Mar. 17, 1942	37.44	Jan. 20, 1951	49.68
Dec. 1	39.29	Nov. 30	37.10	Jan. 15, 1952	52.57
Mar. 9, 1939	39.08	Feb. 12, 1943	36.84	Jan. 10, 1953	54.93
Sept. 14	40.23	Feb. 10, 1944	37.18	Jan. 9, 1954	58.44
Dec. 7	39.28	Feb. 20, 1945	38.73		

## BAILEY COUNTY

11. Lat.  $34^{\circ}15'$ , long.  $102^{\circ}54'$ . Depth 78 feet.

Date	Water level	Date	Water level	Date	Water level
Oct. 9, 1936	26.39	Feb. 26, 1940	25.57	Feb. 12, 1942	21.20
Oct. 20	23.62	Nov. 14	27.24	Feb. 10, 1944	22.00
Nov. 20, 1937	25.50	Jan. 27, 1941	26.40	Mar. 17, 1949	28.26
Sept. 16, 1938	25.40	Mar. 10	27.70	Feb. 13, 1950	28.52
Oct. 25	25.06	July 30	24.30	Jan. 20, 1951	30.30
Dec. 1	24.90	Nov. 10	22.30	Jan. 15, 1952	32.36
Mar. 9, 1939	24.77	Mar. 17, 1942	21.00	Jan. 10, 1953	35.74
Dec. 7	25.93	Nov. 30	21.20	Jan. 9, 1954	39.65

21a. Lat.  $34^{\circ}15'$ , long.  $102^{\circ}51'$ . Depth 98 feet.

June 20, 1936	22.89	Jan. 27, 1941	25.07	Feb. 28, 1946	25.76
June 10, 1938	27.38	Mar. 10	25.02	Mar. 20, 1947	27.60
Sept. 16	23.83	July 30	22.35	Mar. 13, 1948	30.32
Oct. 25	22.28	Nov. 10	19.73	Mar. 17, 1949	34.35
Mar. 9, 1939	23.00	Mar. 17, 1942	18.43	Feb. 14, 1950	34.82
July 8	24.18	Nov. 30	18.74	Jan. 20, 1951	36.03
Dec. 7	23.26	Feb. 12, 1943	18.65	Jan. 14, 1952	38.34
Feb. 26, 1940	23.08	Feb. 10, 1944	21.40	Jan. 10, 1953	41.50
Nov. 14	25.17	Feb. 20, 1945	22.70	Jan. 9, 1954	43.40

25. Lat.  $34^{\circ}15'$ , long.  $102^{\circ}52'$ . Depth 100 feet.

Oct. 20, 1936	22.84	Nov. 14, 1940	24.36	Jan. 15, 1947	24.23
May 28, 1937	24.82	Jan. 27, 1941	23.48	Mar. 20	24.74
Nov. 20	21.84	Mar. 7	23.37	Mar. 12, 1948	26.86
Mar. 30, 1938	21.98	July 30	18.88	Mar. 17, 1949	29.90
Oct. 25	20.70	Nov. 10	16.09	Feb. 14, 1950	30.60
Dec. 1	20.32	Mar. 17, 1942	14.92	Jan. 20, 1951	33.19
Mar. 9, 1939	19.91	Nov. 30	15.06	Jan. 14, 1952	34.04
July 8	20.53	Feb. 12, 1943	15.63	Jan. 10, 1953	37.05
Sept. 14	25.88	Feb. 12, 1944	18.57	Jan. 9, 1954	41.21
Dec. 7	21.46	Feb. 20, 1945	20.15		
Feb. 26, 1940	21.38	Feb. 28, 1946	23.28		

## BAILEY COUNTY

31. Lat.  $34^{\circ}14'$ , long.  $102^{\circ}50'$ .

Date	Water level	Date	Water level	Date	Water level
Sept. 25, 1936	17.05	Mar. 9, 1939	13.82	Feb. 12, 1943	9.90
Oct. 20	16.07	July 8	13.83	Feb. 28, 1946	17.63
Nov. 20, 1937	15.10	Sept. 14	14.47	Mar. 13, 1948	21.12
Mar. 30, 1938	15.18	Dec. 7	15.15	Mar. 16, 1949	24.77
June 9	15.32	Feb. 26, 1940	15.15	Feb. 14, 1950	24.54
Sept. 16	12.96	Nov. 14	15.80	Jan. 20, 1951	24.39
Oct. 25	13.14	Mar. 17, 1942	8.50	Jan. 14, 1952	25.73
Dec. 1	13.20	Nov. 30	9.50	Jan. 10, 1953	29.52

33. Lat.  $34^{\circ}15'$ , long.  $102^{\circ}50'$ . Depth 96 feet.

Oct. 20, 1936	26.67	Dec. 7, 1939	30.85	Jan. 15, 1947	34.29
May 28, 1937	28.90	Feb. 26, 1940	28.55	Mar. 20	34.21
Nov. 20	27.51	Nov. 14	31.77	Mar. 13, 1948	37.19
Jan. 11, 1938	26.64	Jan. 27, 1941	31.94	Mar. 17, 1949	40.13
Mar. 30	27.33	Mar. 10	31.41	Feb. 14, 1950	41.55
June 9	27.55	July 39	28.97	Jan. 20, 1951	42.49
Sept. 16	26.53	Nov. 10	27.54	Jan. 14, 1952	44.95
Dec. 1	27.50	Mar. 17, 1942	25.95	Jan. 10, 1953	47.95
Mar. 9, 1939	27.19	Nov. 30	26.61	Jan. 9, 1954	51.43
July 8	29.43	Feb. 20, 1945	28.65		
Sept. 14	30.85	Feb. 28, 1946	32.18		

34a. Lat.  $34^{\circ}16'$ , long.  $102^{\circ}48'$ . Depth 49 feet.

June 22, 1937	42.98	Oct. 25, 1938	42.40	Jan. 27, 1941	42.70
Sept. 1	42.98	Dec. 1	42.40	Mar. 7	42.78
Nov. 20	42.72	Mar. 9, 1939	42.30	July 30	42.27
Jan. 11, 1938	42.64	July 8	42.32	Nov. 10	41.53
June 9	42.62	Sept. 14	42.30	Mar. 17, 1942	41.04
Sept. 16	42.44	Dec. 6	42.35	July 29	40.80

34b. Lat.  $34^{\circ}17'$ , long.  $102^{\circ}48'$ .

Mar. 29, 1939	63.30	Jan. 20, 1951	65.01	Jan. 10, 1953	69.46
Feb. 14, 1950	64.36	Jan. 15, 1952	66.96	Jan. 10, 1954	73.69

## BAILLEY COUNTY

35a. Lat.  $34^{\circ}15'$ , long.  $102^{\circ}46'$ .

Date	Water level	Date	Water level	Date	Water level
Mar. 31, 1938	24.27	Sept. 14, 1939	23.50	Nov. 10, 1941	21.10
June 9	23.55	Dec. 7	23.73	Feb. 12, 1943	19.96
Sept. 16	22.21	Feb. 26, 1940	23.86	Feb. 14, 1944	21.76
Oct. 25	22.42	Nov. 14	24.88	Feb. 20, 1945	22.80
Dec. 1	22.53	Jan. 27, 1941	25.01	Feb. 28, 1946	24.88
Mar. 9, 1939	22.79	Mar. 10	24.97		
July 8	22.22	July 30	19.89		

36. Lat.  $34^{\circ}15'$ , long.  $102^{\circ}48'$ . Depth 100 feet.

Sept. 24, 1936	20.90	Feb. 26, 1940	18.80	Feb. 28, 1946	19.41
Oct. 20	19.55	Nov. 14	20.00	Jan. 15, 1947	20.60
Nov. 20, 1937	17.90	Jan. 27, 1941	19.80	Mar. 20	20.10
Mar. 31, 1938	17.60	Mar. 10	19.70	Mar. 12, 1948	22.81
Oct. 25	16.80	July 30	15.50	Mar. 16, 1949	26.83
Dec. 1	17.00	Nov. 10	13.90	Feb. 14, 1950	27.51
Mar. 9, 1939	17.20	Mar. 17, 1942	12.50	Jan. 20, 1951	27.50
July 8	17.90	Feb. 12, 1943	13.10	Jan. 14, 1952	30.43
Sept. 14	19.40	Feb. 10, 1944	16.00	Jan. 10, 1953	32.54
Dec. 7	19.00	Feb. 20, 1945	16.50	Jan. 9, 1954	35.84

45. Lat.  $34^{\circ}15'$ , long.  $102^{\circ}45'$ . Depth 51 feet.

May 28, 1937	20.61	Feb. 26, 1940	20.14	Feb. 28, 1946	19.18
Sept. 1	19.87	Oct. 28	21.59	Mar. 20, 1947	20.07
Nov. 21	19.81	Nov. 14	21.58	Mar. 12, 1948	24.13
Jan. 11, 1938	19.51	Jan. 27, 1941	21.41	Mar. 16, 1949	27.55
Mar. 31	19.68	Mar. 10	21.33	Feb. 14, 1950	28.29
Sept. 19	19.01	July 30	11.45	Jan. 20, 1951	28.59
Dec. 1	19.37	Nov. 12	11.34	Jan. 14, 1952	28.22
Mar. 9, 1939	18.91	Mar. 17, 1942	12.18	Jan. 10, 1953	32.62
July 8	20.13	Feb. 12, 1943	13.30	Jan. 10, 1954	35.85
Sept. 14	20.94	Feb. 14, 1944	16.04		
Dec. 7	20.38	Feb. 20, 1945	16.34		

49. Lat.  $34^{\circ}15'$ , long.  $102^{\circ}46'$ . Depth 72 feet.

May 13, 1936	26.24	Mar. 31, 1938	23.86	July 8, 1939	24.85
Oct. 18	25.10	June 9	28.50	Dec. 7	24.52
Sept. 1, 1937	24.99	Oct. 25	23.58	Feb. 26, 1940	24.20
Nov. 21	23.88	Nov. 30	23.70	Nov. 14	27.04
Jan. 11, 1938	23.73	Mar. 9, 1939	23.12	Jan. 27, 1941	25.48

(Continued on next page)

## BAILEY COUNTY

49.--Continued

Date	Water level	Date	Water level	Date	Water level
Mar. 77, 1941	25.30	Feb. 14, 1944	20.37	Mar. 16, 1949	30.02
May 30	24.57	Feb. 20, 1945	20.82	Feb. 14, 1950	29.73
July 30	20.31	Feb. 28, 1946	23.14	Jan. 20, 1951	30.31
Nov. 12	18.89	Jan. 15, 1947	25.21	Jan. 14, 1952	32.04
Mar. 17, 1942	18.14	Mar. 20	24.07	Jan. 10, 1953	35.03
Feb. 12, 1943	17.74	Mar. 12, 1948	26.76	Jan. 10, 1954	42.22

53. Lat. 34°15', long. 102°45'. Depth 78 feet.

May 28, 1936	26.32	Nov. 14, 1940	26.87	Feb. 28, 1946	22.97
Nov. 9	26.50	Jan. 27, 1941	26.20	Mar. 20, 1947	24.48
May 28, 1937	26.35	Mar. 10	26.43	Mar. 12, 1948	26.45
June 21	26.20	July 30	16.58	Mar. 16, 1949	29.53
Nov. 20	25.52	Nov. 12	18.33	Feb. 14, 1950	31.38
Jan. 11, 1938	25.46	Mar. 17, 1942	18.29	Jan. 20, 1951	33.05
Mar. 31	25.85	Feb. 12, 1943	17.46	Jan. 14, 1952	34.28
Mar. 9, 1939	25.06	Feb. 14, 1944	20.15	Jan. 10, 1953	38.37
July 8	25.38	Feb. 20, 1945	20.80	Jan. 10, 1954	42.73

57a. Lat. 34°18', long. 102°43'.

Mar. 29, 1949	50.61	Jan. 20, 1951	52.43	Jan. 7, 1953	56.60
Feb. 14, 1950	50.90	Jan. 14, 1952	54.18	Jan. 10, 1954	58.76

62. Lat. 34°15', long. 102°43'. Depth 140 feet.

May 26, 1936	29.86	Mar. 18, 1940	23.43	Feb. 28, 1946	23.16
Oct. 12	26.56	Nov. 14	27.43	Mar. 20, 1947	25.16
Jan. 29, 1937	23.95	Jan. 27, 1941	25.32	Mar. 13, 1948	28.96
Nov. 21	23.90	Mar. 10	24.92	Mar. 16, 1949	36.53
Mar. 31, 1938	23.61	Nov. 12	19.92	Feb. 14, 1950	38.43
June 9	27.61	Mar. 17, 1942	15.94	Jan. 20, 1951	37.52
Oct. 25	24.01	Nov. 30	16.05	Jan. 14, 1952	46.26
Mar. 9, 1939	23.24	Feb. 11, 1943	15.42	Jan. 8, 1953	50.32
July 9	25.34	Feb. 14, 1944	18.35	Jan. 10, 1954	55.36
Dec. 7	23.93	Feb. 20, 1945	19.15		

## BAILEY COUNTY

63. Lat. 34°15', long. 102°44'. Depth 74 feet.

Date	Water level	Date	Water level	Date	Water level
Nov. 13, 1934	26.49	Mar. 18, 1940	24.14	Feb. 20, 1945	20.70
May 9, 1936	31.25	Oct. 28	28.85	Jan. 15, 1947	24.95
Oct. 12	28.92	Nov. 14	30.32	Mar. 20	25.90
Jan. 29, 1937	26.16	Jan. 27, 1941	26.41	Mar. 12, 1948	27.69
Mar. 14	25.90	Mar. 10	26.09	Mar. 16, 1949	34.02
June 21	26.55	May 30	26.50	Feb. 14, 1950	36.35
Mar. 31, 1938	24.27	July 30	24.48	Jan. 19, 1951	36.30
Oct. 25	25.30	Nov. 12	20.61	Jan. 14, 1952	41.05
Dec. 1	24.43	Mar. 17, 1942	17.77	Jan. 8, 1953	45.25
Mar. 9, 1939	23.51	Nov. 30	17.80	Jan. 10, 1954	49.97
Sept. 14	29.23	Feb. 11, 1943	17.08		
Dec. 7	24.68	Feb. 14, 1944	19.30		

66. Lat. 34°15', long. 102°34'. Depth 90 feet.

May 28, 1936	23.24	Mar. 18, 1940	21.48	Feb. 20, 1945	17.65
June 20	22.90	Nov. 14	23.57	Feb. 28, 1946	21.28
July 20	22.98	Jan. 27, 1941	23.10	Mar. 20, 1947	23.49
Sept. 24	21.95	Mar. 10	22.96	Mar. 12, 1948	27.11
Mar. 31, 1938	20.90	July 30	17.83	Mar. 16, 1949	34.80
June 9	21.70	Nov. 12	15.64	Feb. 14, 1950	37.13
Mar. 10, 1939	20.42	Mar. 17, 1942	14.14	Jan. 20, 1951	39.44
July 8	21.20	Nov. 30	13.48	Jan. 14, 1952	45.17
Sept. 14	21.85	Feb. 11, 1943	13.46	Jan. 8, 1953	49.70
Dec. 7	21.72	Feb. 14, 1944	16.58	Jan. 11, 1954	53.75

67. Lat. 34°15', long. 102°43'.

May 28, 1936	21.16	Sept. 14	20.38	Feb. 20, 1945	16.67
June 20	20.35	Dec. 7	20.36	Feb. 28, 1946	20.26
July 20	20.57	Mar. 18, 1940	20.31	Mar. 20, 1947	22.36
Sept. 23	22.50	Nov. 14	22.80	Mar. 12, 1948	26.33
June 21, 1937	19.77	Jan. 27, 1941	21.32	Mar. 16, 1949	34.16
Sept. 1	20.50	Mar. 10	21.23	Feb. 14, 1950	37.45
Nov. 21	19.81	July 30	16.00	Jan. 20, 1951	38.63
Mar. 31, 1938	19.88	Nov. 12	13.85	Jan. 14, 1952	45.38
June 9	22.02	Mar. 17, 1942	12.43	Jan. 8, 1953	49.74
Dec. 1	19.56	Nov. 30	11.98	Jan. 10, 1954	52.73
Mar. 10, 1939	19.40	Feb. 11, 1943	12.03		
July 8	19.97	Feb. 14, 1944	15.15		

## BAILEY COUNTY

69. Lat. 34°15', long. 102°43'. Depth 68 feet.

Date	Water level	Date	Water level	Date	Water level
May 26, 1936	16.80	July 9, 1939	18.30	Feb. 14, 1944	12.00
June 20	16.25	Dec. 7	16.69	Feb. 20, 1945	12.75
July 24	16.97	Mar. 18, 1940	17.50	Jan. 15, 1947	18.58
Oct. 19	16.36	Nov. 14	17.91	Mar. 12, 1948	21.85
Oct. 27	16.20	Mar. 10, 1941	17.82	Mar. 16, 1949	27.24
June 21, 1937	15.85	July 30	10.91	Feb. 14, 1950	29.93
Nov. 21	16.39	Nov. 12	9.01	Jan. 20, 1951	30.83
Mar. 31, 1938	16.97	Mar. 16, 1942	8.79	Jan. 14, 1952	30.60
Oct. 25	15.58	Nov. 30	8.35	Jan. 8, 1953	34.78
Mar. 10, 1939	15.49	Feb. 11, 1943	8.79	Jan. 10, 1954	42.67

79. Lat. 34°14', long. 102°43'. Depth 70 feet.

May 28, 1936	24.12	Dec. 1, 1938	22.37	Mar. 28, 1941	24.50
Oct. 27	23.59	Mar. 10, 1939	22.29	May 11	24.53
Jan. 27, 1937	23.51	July 7	22.86	June 6	21.83
June 21	21.11	Sept. 14	22.36	July 22	15.58
Aug. 30	22.56	Dec. 7	23.81	Aug. 10	16.21
Nov. 21	22.89	Apr. 15, 1940	23.88	Oct. 28	16.68
Jan. 10, 1938	22.94	Oct. 28	24.94	Nov. 10	15.69
Mar. 31	23.12	Nov. 25	24.78	Mar. 20, 1942	16.58
June 9	23.32	Dec. 7	24.77	Nov. 30	17.50
Sept. 16	22.11	Jan. 27, 1941	24.79	Feb. 11, 1943	17.92
Oct. 25	22.28	Feb. 18	24.75	Feb. 14, 1944	21.36

105. Lat. 34°19', long. 102°37'. Depth 94 feet.

Sept. 10, 1952	60.66	Jan. 7, 1953	60.37	Jan. 10, 1954	68.00
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108a. Lat. 34°16', long. 102°37'.

Mar. 18, 1946	35.50	Dec. 18, 1946	35.70	Mar. 16, 1949	41.02
Apr. 18	36.50	Jan. 18, 1947	36.30	Feb. 14, 1950	39.00
May 18	35.70	Feb. 18	36.20	Jan. 20, 1951	43.80
June 18	37.30	Mar. 20	36.70	Jan. 15, 1952	44.03
Sept. 18	38.50	May 18	39.10	Jan. 7, 1953	48.55
Oct. 18	37.20	June 18	38.00	Jan. 10, 1954	55.01
Nov. 18	36.90	Mar. 12, 1948	41.02		



## BAILEY COUNTY

116. Lat. 34°16', long. 102°38'. Depth 45 feet.

Date	Water level	Date	Water level	Date	Water level
Nov. 14, 1934	23.06	Nov. 14, 1940	28.32	Mar. 20, 1947	24.70
Jan. 10, 1936	24.90	Mar. 10, 1941	27.15	Mar. 12, 1948	28.72
May 9	25.60	Nov. 1	21.45	Mar. 16, 1949	32.28
Oct. 7	25.67	Mar. 20, 1942	20.73	Feb. 14, 1950	37.80
Jan. 28, 1937	25.71	Nov. 30	18.30	Jan. 20, 1951	36.08
June 21	25.78	Feb. 11, 1943	18.24	Jan. 14, 1952	34.27
Dec. 7, 1939	26.79	Feb. 14, 1944	20.60		
Mar. 18, 1940	26.13	Feb. 20, 1945	21.32		

117. Lat. 34°17', long. 102°38'. Depth 53 feet.

Nov. 14, 1934	34.58	Dec. 1, 1938	34.47	Nov. 30, 1942	29.00
Jan. 16, 1936	34.50	Mar. 9, 1939	35.11	Feb. 11, 1943	29.00
May 9	34.90	July 9	36.04	Feb. 14, 1944	30.10
Sept. 29	34.86	Sept. 15	36.14	Feb. 20, 1945	31.25
Jan. 28, 1937	34.70	Dec. 7	36.85	Mar. 1, 1946	32.87
Mar. 14	35.01	Mar. 18, 1940	35.79	Jan. 15, 1947	35.30
May 28	34.91	Nov. 14	38.30	Mar. 20	33.72
June 21	35.97	Jan. 27, 1941	36.64	Mar. 12, 1948	37.46
Sept. 1	34.99	Mar. 10	36.40	Mar. 16, 1949	40.68
Nov. 21	34.75	May 30	36.27	Feb. 14, 1950	42.22
Mar. 31, 1938	34.87	July 31	34.57	Jan. 20, 1951	42.72
June 9	36.01	Nov. 3	32.75	Jan. 14, 1952	44.67
Sept. 16	34.81	Mar. 17, 1942	30.48	Jan. 8, 1953	47.85
Oct. 25	34.92	July 3	30.08	Jan. 10, 1954	52.17

120. Lat. 34°16', long. 102°40'. Depth 67 feet.

Nov. 14, 1934	25.81	Dec. 7, 1939	28.00	Feb. 14, 1944	22.20
May 17, 1936	27.64	Mar. 18, 1940	27.80	Mar. 12, 1948	30.00
Sept. 30	28.67	Nov. 14	29.73	Mar. 16, 1949	33.18
Jan. 28, 1937	28.43	Jan. 27, 1941	29.25	Feb. 14, 1950	34.58
Mar. 14	27.26	Mar. 10	29.07	Jan. 20, 1951	35.87
June 21	28.46	July 31	26.20	Jan. 14, 1952	36.06
Nov. 21	28.43	Nov. 1	22.91	Jan. 7, 1953	39.55
June 9, 1938	28.62	Mar. 17, 1942	20.50		
Sept. 15, 1939	28.90	Nov. 30	20.53		

## BAILEY COUNTY

130. Lat. 34°15', long. 102°38'. Depth 140 feet.

Date	Water level	Date	Water level	Date	Water level
1914	19.00	July 7, 1939	21.77	Feb. 11, 1943	12.28
Sept. 29, 1936	21.38	Sept. 15	22.09	Feb. 14, 1944	15.48
Jan. 28, 1937	20.96	Dec. 7	21.58	Feb. 20, 1945	16.35
Nov. 21	20.49	Mar. 18, 1940	21.31	Feb. 12, 1948	22.80
Mar. 31, 1938	20.59	Nov. 14	22.92	Mar. 16, 1949	27.04
June 9	22.22	Jan. 27, 1941	22.53	Feb. 14, 1950	26.60
Sept. 19	21.63	Mar. 10	22.38	Jan. 20, 1951	28.53
Oct. 25	21.52	Nov. 1	11.50	Jan. 15, 1952	27.98
Dec. 1,	21.29	Mar. 17, 1942	11.67	Jan. 11, 1954	39.66
Mar. 9, 1939	20.88	Nov. 30	11.66		

131. Lat. 34°15', long. 102°37'. Depth 59 feet.

1914	18.00	Nov. 14, 1940	23.25	Mar. 1, 1946	19.33
Sept. 29, 1936	21.60	Jan. 27, 1941	22.52	Jan. 15, 1947	20.49
Jan. 28, 1937	21.04	Mar. 10	22.40	Mar. 20	20.26
Nov. 21	20.69	July 31	15.88	Mar. 12, 1948	23.35
Mar. 31, 1938	20.86	Nov. 1	12.38	Mar. 16, 1949	26.92
June 9	22.34	Mar. 17, 1942	12.30	Feb. 14, 1950	26.66
Mar. 9, 1939	21.91	Nov. 30	12.14	Jan. 20, 1951	27.25
July 7	22.01	Feb. 11, 1943	12.62	Jan. 14, 1952	27.76
Dec. 7	21.62	Feb. 14, 1944	15.64	Jan. 8, 1953	32.60
Mar. 18, 1940	21.37	Feb. 20, 1945	16.82	Jan. 11, 1954	38.61

132. Lat. 34°15', long. 102°37'. Depth 77 feet.

1913	19.00	Sept. 15, 1939	22.14	Feb. 20, 1945	16.50
May 14, 1936	22.96	Dec. 7	21.97	Mar. 20, 1947	20.15
Sept. 29	22.25	Mar. 18, 1940	21.76	Mar. 12, 1948	22.90
June 21, 1937	22.46	Nov. 14	23.25	Mar. 16, 1949	27.00
Nov. 21	21.18	Jan. 27, 1941	22.90	Feb. 14, 1950	26.96
Mar. 31, 1938	21.26	Mar. 10	22.71	Jan. 20, 1951	28.86
June 9	23.06	Nov. 1	12.80	Jan. 14, 1952	30.57
Oct. 25	21.98	Mar. 17, 1942	12.87	Jan. 8, 1953	33.64
Dec. 1	21.71	Nov. 30	12.54	Jan. 11, 1954	39.88
Mar. 9, 1939	21.42	Feb. 11, 1943	13.04		
July 7	22.46	Feb. 14, 1944	15.40		

## BAILEY COUNTY

135. Lat.  $34^{\circ}14'$ , long.  $102^{\circ}37'$ . Depth 150 feet.

Date	Water level	Date	Water level	Date	Water level
1914	14.00	Mar. 10, 1939	16.72	Feb. 11, 1943	9.79
Jan. 28, 1937	17.00	July 7	17.38	Mar. 16, 1949	19.30
Nov. 21	16.68	Sept. 15	17.54	Feb. 14, 1950	20.38
Mar. 31, 1938	16.61	Dec. 7	17.54	Jan. 19, 1951	22.36
June 9	17.10	July 31, 1941	9.15	Jan. 14, 1952	19.09
Sept. 19	17.18	Nov. 1	7.09	Jan. 8, 1953	22.74
Oct. 25	17.24	Mar. 16, 1942	8.51	Jan. 11, 1954	28.98
Dec. 1	17.10	Nov. 30	9.73		

136. Lat.  $34^{\circ}14'$ , long.  $102^{\circ}38'$ . Depth 86 feet.

1914	15.00	Dec. 7, 1939	16.27	Feb. 14, 1944	11.85
Nov. 13, 1934	14.19	Mar. 18, 1940	17.14	Feb. 20, 1945	12.35
May 9, 1936	16.17	Oct. 28	17.65	Mar. 1, 1946	14.48
Sept. 16	15.17	Nov. 13	18.73	Jan. 15, 1947	15.23
Sept. 28	15.45	Jan. 27, 1941	17.16	Mar. 20	14.58
Oct. 16	15.14	Mar. 10	17.01	Mar. 12, 1948	17.50
Jan. 28, 1937	15.52	May 30	14.86	Mar. 16, 1949	21.32
Mar. 14	15.37	July 31	7.82	Feb. 14, 1950	21.82
Nov. 21	14.71	Nov. 1	5.44	Jan. 20, 1951	22.90
Mar. 31, 1938	16.85	Mar. 16, 1942	7.80	Jan. 14, 1952	20.23
Dec. 1	15.51	July 3	9.37	Jan. 8, 1953	24.06
Mar. 10, 1939	15.40	Nov. 30	8.39	Jan. 11, 1954	28.81
July 7	17.12	Feb. 11, 1943	8.71		

137. Lat.  $34^{\circ}14'$ , long.  $102^{\circ}38'$ . Depth 130 feet.

1914	12.50	Mar. 10, 1941	16.77	Sept. 18, 1946	15.50
May 14, 1935	14.27	Nov. 1	6.37	Oct. 18	13.00
June 20	14.41	Mar. 16, 1942	8.55	Nov. 18	12.80
July 20	14.41	Nov. 30	8.79	Dec. 18	12.50
Oct. 16	14.80	Feb. 11, 1943	9.04	Jan. 18, 1947	12.40
Feb. 12, 1937	14.56	Feb. 14, 1944	11.50	Mar. 12, 1948	14.57
Mar. 31, 1938	14.07	Feb. 20, 1945	10.60	Mar. 16, 1949	20.43
Mar. 10, 1939	14.73	Mar. 1, 1946	13.72	Feb. 14, 1950	20.46
July 7	15.41	Mar. 18	14.60	Jan. 20, 1951	23.74
Dec. 7	16.02	Apr. 18	14.10	Jan. 14, 1952	18.29
Mar. 18, 1940	15.80	May 18	14.10	Jan. 8, 1953	22.67
Nov. 13	17.31	June 18	14.90	Jan. 11, 1954	27.62
Jan. 27, 1941	16.92	July 18	14.70		

## BAILEY COUNTY

141. Lat. 34°14', long. 102°38'. Depth 140 feet

Date	Water level	Date	Water level	Date	Water level
1914	18.0	July 7, 1939	19.66	Feb. 11, 1943	13.70
May 15, 1936	18.40	Sept. 15	19.70	Mar. 12, 1948	24.45
May 28, 1937	18.77	Dec. 7	19.89	Feb. 14, 1950	16.01
Aug. 30	18.57	Mar. 18, 1940	19.77	Jan. 20, 1951	20.50
Nov. 21	18.57	Mar. 10, 1941	20.00	Jan. 14, 1952	20.33
Jan. 10, 1938	18.67	July 31	12.73	Jan. 8, 1953	23.34
Mar. 31	18.93	Nov. 1	11.18	Jan. 11, 1954	25.83
June 9	19.02	Mar. 16, 1942	12.28		
Mar. 10, 1939	19.10	Nov. 30	13.70		

143. Lat. 34°14', long. 102°39'. Depth 99 feet.

1914	20.0	Jan. 10, 1938	22.46	Mar. 10, 1939	22.92
Sept. 28, 1936	22.95	Mar. 31	23.00	Sept. 15	23.33
Feb. 12, 1937	22.87	June 9	24.51	Dec. 7	23.59
Nov. 21	22.00	Sept. 19	23.56	Mar. 18, 1940	23.58

201a. Lat. 34°09', long. 102°44'. Depth 57 feet.

Nov. 30, 1939	*37.58	Aug. 1, 1940	*38.98	June 6, 1941	38.67
Dec. 1	*37.67	Sept. 2	*39.10	July 22	36.92
Jan. 17, 1940	*37.85	Oct. 9	*39.21	Aug. 16	36.89
Feb. 4	*37.94	Nov. 18	*39.38	Oct. 28	36.92
Mar. 1	*38.07	Dec. 6	*39.54	Nov. 17	36.77
Apr. 15	*38.20	Jan. 27, 1941	40.06	Mar. 20, 1942	36.74
May 3	*38.41	Feb. 18	39.90	Feb. 4, 1943	35.38
June 26	*38.72	Mar. 3	39.99		
July 1	*38.78	May 30	39.42		

205. Lat. 34°07', long. 102°44'. Depth 160 feet.

Oct. 19, 1936	53.34	Oct. 12, 1939	55.22	Mar. 13, 1948	48.70
June 23, 1937	53.90	Nov. 3, 1941	50.37	Mar. 16, 1949	50.80
Aug. 31	54.01	Feb. 12, 1943	48.50	Jan. 20, 1951	53.1
Jan. 11, 1938	54.05	Feb. 15, 1944	48.98	Jan. 15, 1952	52.92
June 16	54.60	Feb. 22, 1945	50.00	Jan. 10, 1953	55.66
Jan. 27, 1939	54.41	Mar. 2, 1946	51.10	Jan. 10, 1954	59.42
July 8	54.52	Mar. 24, 1947	50.40		

\* Monthly highest water level from recorder graph.

## BAILEY COUNTY

207. Lat.  $34^{\circ}06'$ , long.  $102^{\circ}44'$ . Depth 142 feet.

Date	Water level	Date	Water level	Date	Water level
Oct. 19, 1936	93.50	Nov. 3, 1941	92.47	Mar. 17, 1949	83.95
July 21, 1937	99.76	Mar. 20, 1942	91.36	Feb. 15, 1950	86.87
Jan. 11, 1938	92.87	Feb. 4, 1943	90.14	Jan. 20, 1951	83.55
June 16	100.88	Feb. 15, 1944	93.25	Jan. 15, 1952	82.03
Jan. 27, 1939	93.13	Mar. 2, 1946	86.80	Jan. 10, 1953	81.24
Mar. 26, 1940	93.61	Mar. 24, 1947	85.13	Jan. 10, 1954	82.33

324a. Lat.  $34^{\circ}05'$ , long.  $102^{\circ}43'$ . Depth 144 feet.

June 22, 1937	99.23	Mar. 26, 1940	98.47	Feb. 15, 1944	95.00
Aug. 30	99.21	Dec. 3	97.87	Mar. 2, 1946	93.49
Jan. 11, 1938	99.13	Mar. 21, 1941	98.35	Mar. 24, 1947	92.58
June 16	99.01	Nov. 3	98.40	Mar. 13, 1948	91.70
Jan. 27, 1939	98.78	Mar. 20, 1942	97.29	Mar. 17, 1949	93.42
July 8	98.77	July 29	97.00	Feb. 15, 1950	92.36
Oct. 12	98.67	Feb. 4, 1943	96.51	Jan. 20, 1951	90.07

430. Lat.  $33^{\circ}50'$ , long.  $102^{\circ}45'$ . Depth 193 feet.

Jan. 12, 1937	82.0	Jan. 27, 1939	82.05	Dec. 3, 1940	81.54
June 22	82.38	July 8	82.10	Mar. 21, 1941	81.48
Aug. 31	83.25	Oct. 12	81.99	Nov. 3	76.87
Jan. 11, 1938	82.21	Mar. 26, 1940	82.05		

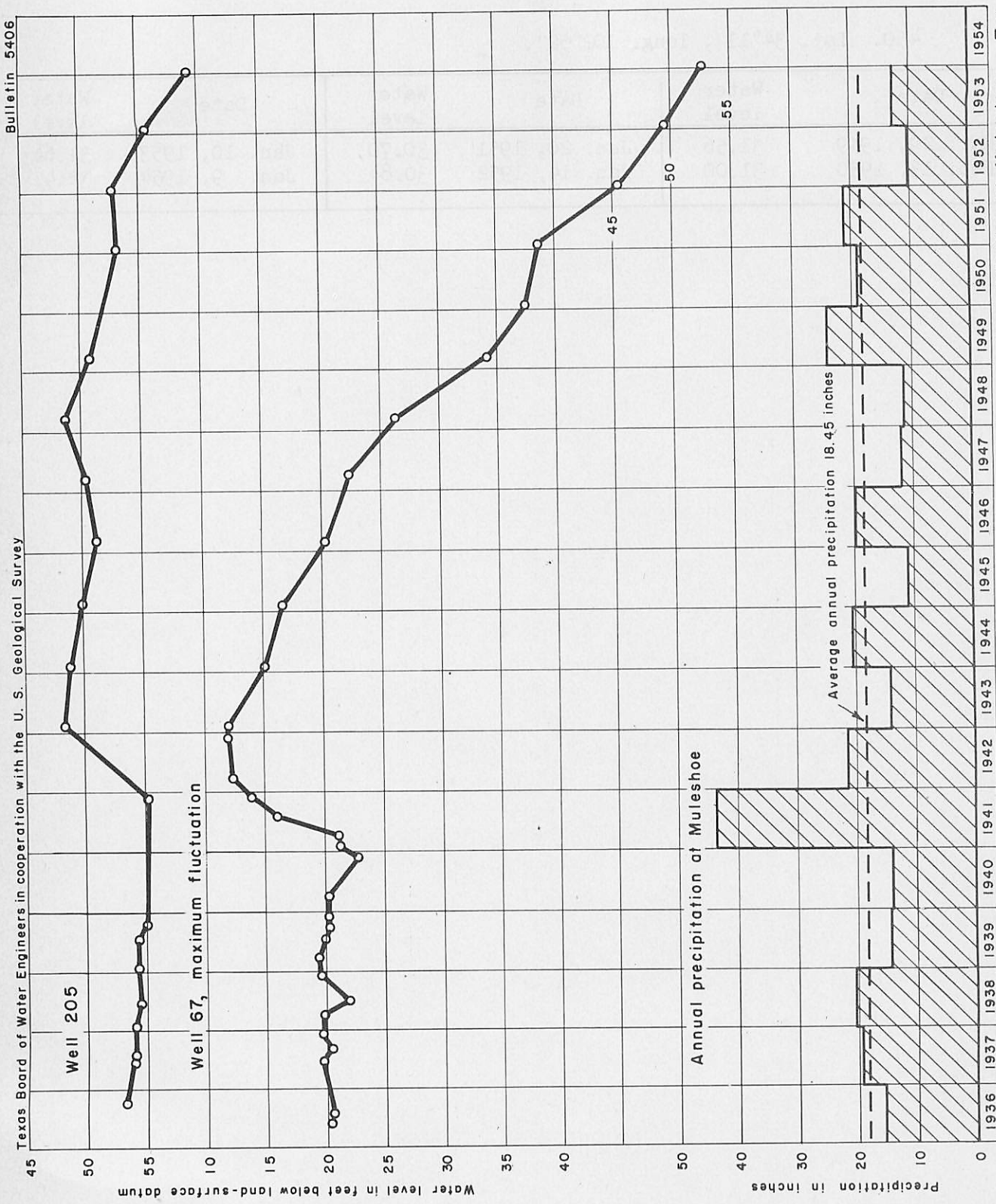
435. Lat.  $33^{\circ}54'$ , long.  $102^{\circ}45'$ . Depth 117 feet.

Dec. 11, 1936	25.20	Mar. 26, 1940	27.97	Feb. 22, 1945	18.85
June 22, 1937	29.85	Dec. 3	27.96	Mar. 24, 1947	18.18
Aug. 31	29.78	Mar. 21, 1941	27.96	Mar. 17, 1949	18.79
Jan. 11, 1938	28.89	Nov. 21	23.25	Feb. 15, 1950	19.54
Jan. 27, 1939	28.43	July 29, 1942	19.40	Jan. 20, 1951	12.58
July 8	28.56	Feb. 12, 1943	18.22		
Oct. 12	28.26	Feb. 15, 1944	18.38		

## BAILEY COUNTY

450. Lat.  $34^{\circ}11'$ , long.  $102^{\circ}52'$ .

Date	Water level	Date	Water level	Date	Water level
Mar. 29, 1949	31.56	Jan. 20, 1951	30.70	Jan. 10, 1953	31.64
Feb. 13, 1950	31.00	Jan. 14, 1952	30.84	Jan. 9, 1954	32.41



Hydrographs showing fluctuation of water levels in Bailey County wells and the annual precipitation at Muleshoe, Tex.

Bulletin 5406

Texas Board of Water Engineers in cooperation with the U. S. Geological Survey

BRISCOE COUNTY, TEXAS  
OBSERVATION WELLS  
MAY 1954

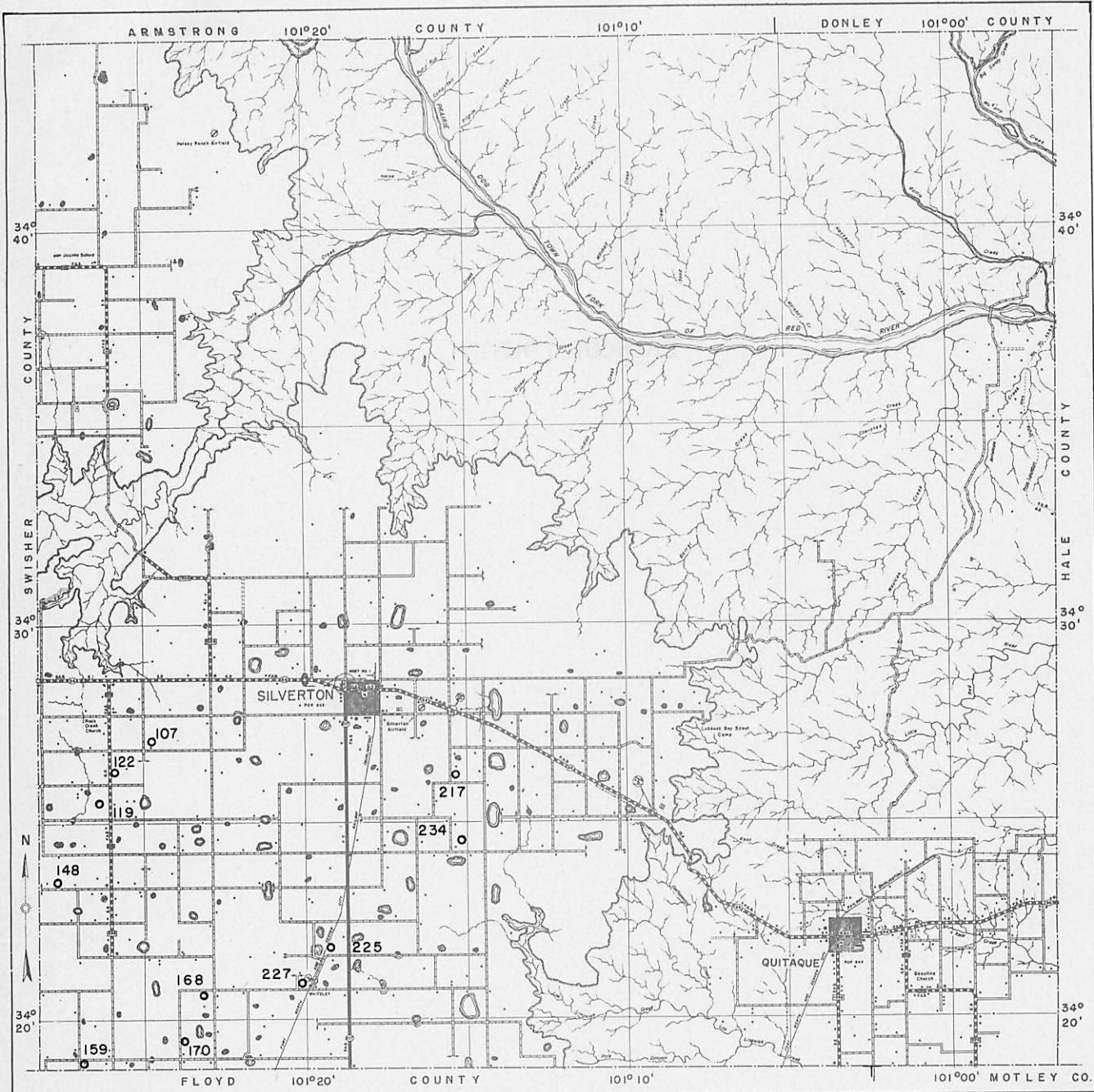
BRISCOE COUNTY, TEXAS  
OBSERVATION WELLS  
MAY 1954

BRISCOE COUNTY

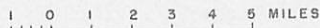


**BRISCOE COUNTY, TEXAS**  
**OBSERVATION WELLS**  
January 1954

Bulletin 5406  
Texas Board of Water Engineers  
in cooperation with  
U. S. Geological Survey



Base map from Texas State  
Highway Department



## BRISCOE COUNTY

107. Lat.  $34^{\circ}27'$ , long.  $101^{\circ}25'$ . Depth 200 feet.

Date	Water level	Date	Water level	Date	Water level
Mar. 14, 1946	85.90	Mar. 14, 1949	87.52	Jan. 16, 1952	86.80
Aug. 31	87.91	Feb. 17, 1950	86.93	Jan. 6, 1953	87.76
Mar. 12, 1948	86.58	Jan. 23, 1951	87.33	Jan. 6, 1954	88.39

119. Lat.  $34^{\circ}25'$ , long.  $101^{\circ}26'$ . Depth 202 feet.

July 1, 1946	*77.90	July 2, 1947	*75.60	Dec. 11, 1950	*83.8
Sept. 16	*77.30	Feb. 2, 1948	*79.4	Jan. 4, 1951	*84.9
Oct. 16	*76.60	Mar. 11	77.61	Feb. 7	*85.10
Nov. 18	*75.40	May 1	*76.6	Jan. 16, 1952	87.05
Dec. 19	*75.20	June 29	*78.0	July 31	*97.3
Jan. 24, 1947	*75.20	Sept. 7	*90.4	Nov. 3	*97.7
Feb. --	*75.20	Mar. 14, 1949	80.50	Jan. 6, 1953	93.81
Mar. 21	74.56	Apr. 5	*79.3	Aug. 3	*97.3
Apr. 9	*73.80	Nov. 30	*82.2	Oct. 30	*101.3
May 7	*74.20	Feb. 17, 1950	83.99	Dec. 23	*96.6
June 6	*74.50	July 31	*85.5	Jan. 6, 1954	97.44

122. Lat.  $34^{\circ}26'$ , long.  $101^{\circ}26'$ . Depth 190 feet.

June 19, 1946	76.00	Mar. 14, 1949	77.78	Jan. 6, 1953	83.10
July 18	78.40	Feb. 17, 1950	77.80	Jan. 6, 1954	88.01
Aug. 30	75.50	Jan. 23, 1951	78.84		
Mar. 12, 1948	76.12	Jan. 16, 1952	80.02		

148. Lat.  $34^{\circ}23'$ , long.  $101^{\circ}28'$ . Depth 218 feet.

July 1, 1946	72.70	Feb. 17, 1950	72.66	Jan. 6, 1953	80.05
Mar. 11, 1948	72.20	Jan. 23, 1951	73.44	Jan. 6, 1954	84.40
Mar. 14, 1949	72.25	Jan. 16, 1952	75.70		

159. Lat.  $34^{\circ}19'$ , long.  $101^{\circ}27'$ . Depth 212 feet.

June 26, 1946	85.60	Mar. 11, 1949	89.80	Jan. 6, 1953	100.98
Aug. 25	87.33	Feb. 17, 1950	90.78	Jan. 6, 1954	104.98
Mar. 12, 1948	87.82	Jan. 16, 1952	96.56		

\*Measured by Soil Conservation Service.

## BRISCOE COUNTY

168. Lat. 34°21', long. 101°23'. Depth 200 feet.

Date	Water level	Date	Water level	Date	Water level
June 18, 1946	87.20	Mar. 11, 1949	91.90	Jan. 16, 1952	97.43
Aug. 28	97.21	Feb. 17, 1950	93.30	Jan. 6, 1953	100.10
Mar. 12, 1948	90.62	Jan. 23, 1951	94.28	Jan. 6, 1954	102.92

170. Lat. 34°20', long. 101°24'. Depth 220 feet.

Mar. 18, 1946	*91.30	May 7, 1947	*93.30	Aug. 1, 1950	*97.0
June 26	*93.10	June 6	*92.60	Dec. 11	*96.8
July 18	*93.30	July 22	*92.40	Jan. 23, 1951	96.44
Aug. 28	96.42	Feb. 2, 1948	*93.6	Feb. 7	*96.0
Sept. 16	*95.10	Mar. 1	*93.7	Jan. 16, 1952	97.98
Oct. 16	*93.20	May 1	*96.4	July 31	*100.5
Nov. 18	*93.40	June 29	*94.8	Nov. 3	*104.3
Dec. 19	*93.30	Mar. 11, 1949	95.25	Jan. 6, 1953	101.52
Jan. 24, 1947	*93.90	Apr. 5	*95.4	Oct. 30	*106.6
Feb. --	*92.90	Nov. 30	*95.8	Dec. 23	*105.9
Mar. 21	92.56	Feb. 17, 1950	95.95	Jan. 6, 1954	105.67
Apr. 9	*93.10	July 31	*97.0		

217. Lat. 34°26', long. 101°15'. Depth 214 feet.

Mar. 11, 1948	113.00	Jan. 23, 1951	114.10	Jan. 6, 1954	123.91
Mar. 14, 1949	113.42	Jan. 16, 1952	115.72		
Mar. 17, 1950	115.04	Jan. 7, 1953	121.15		

225. Lat. 34°22', long. 101°19'. Depth 190 feet.

Aug. 29, 1946	77.15	Feb. 17, 1950	76.59	Jan. 7, 1953	76.61
Mar. 12, 1948	76.28	Jan. 23, 1951	76.84		
Mar. 11, 1949	76.50	Jan. 16, 1952	76.40		

227. Lat. 34°21', long. 101°21'. Depth 219 feet.

June 26, 1946	*78.80	May 7, 1947	*77.80	Dec. 11, 1949	*77.6
July 18	*78.20	June 6	*78.00	Feb. 17, 1950	78.00
Aug. 28	78.84	July 2	*77.80	July 31	*77.9
Sept. 16	*78.00	Feb. 2, 1948	*78.3	Jan. 23, 1951	77.68
Oct. 16	*78.40	Mar. 1	*77.8	Feb. 7	*78.20
Nov. 18	*78.30	May 11	*77.7	Aug. 1	*77.20
Dec. 19	*78.40	June 29	*78.1	Jan. 16, 1952	77.25
Jan. 24, 1947	*78.30	Sept. 7	*77.6	Jan. 7, 1953	77.00
Feb. --	*78.40	Mar. 11, 1949	78.03	Jan. 6, 1954	80.68
Mar. 21	77.97	Apr. 5	*78.1		
Apr. 9	*77.60	Nov. 30	*78.1		

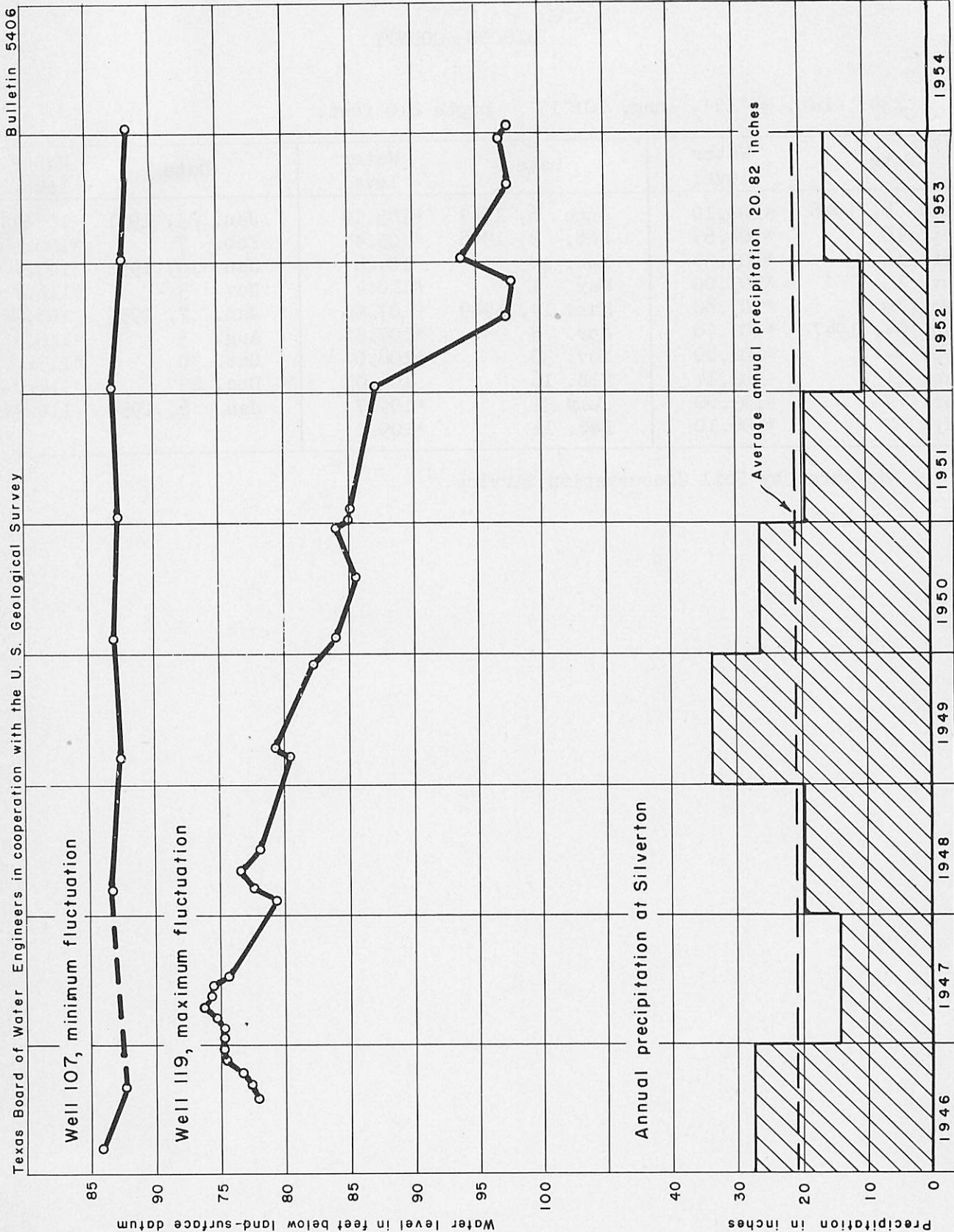
\* Measured by Soil Conservation Service.

## BRISCOE COUNTY

234. Lat. 34°25', long. 101°15'. Depth 210 feet.

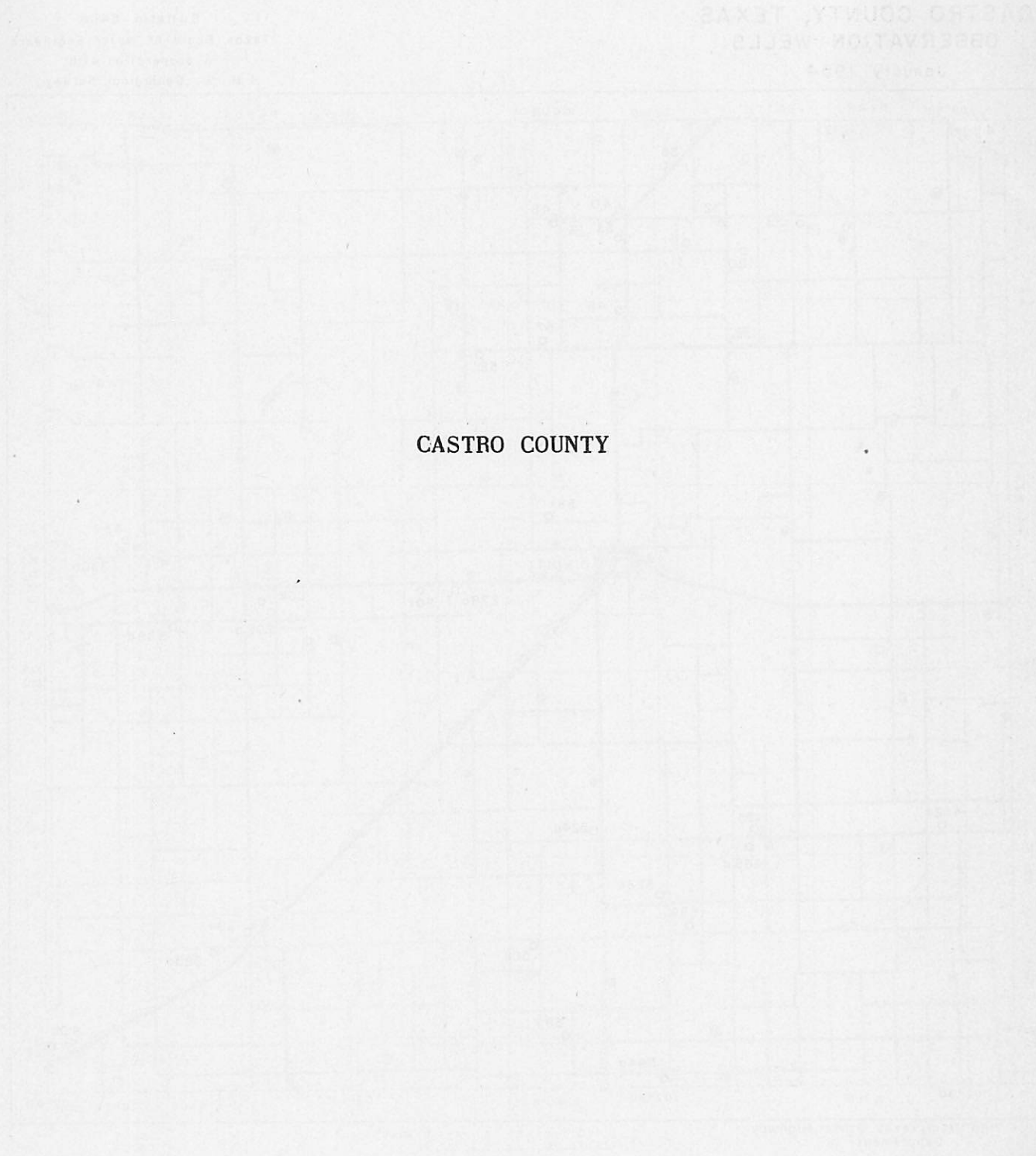
Date	Water level	Date	Water level	Date	Water level
July 8, 1946	*103.10	June 6, 1947	*103.10	Jan. 23, 1951	105.43
Sept. 16	*104.65	Feb. 2, 1948	*105.4	Feb. 7	*108.1
Oct. 16	*103.30	Mar. 18	104.8	Jan. 16, 1952	107.14
Nov. 18	*103.00	May 1	*110.4	Nov. 3	*116.4
Dec. 19	*107.80	Mar. 14, 1949	107.96	Jan. 7, 1953	108.92
Jan. 24, 1947	*102.70	Apr. 5	*107.5	Aug. 3	*116.6
Feb. --	*102.80	Nov. 30	*108.0	Oct. 30	*115.0
Mar. 21	102.14	Feb. 16	104.03	Dec. 23	114.0
Apr. 9	*103.00	July 31	*109.7	Jan. 6, 1954	110.33
May 7	*106.10	Dec. 11	*109.2		

\*Measured by Soil Conservation Service.



Hydrographs showing fluctuation of water levels in Briscoe County wells and the annual precipitation at Silverton, Tex.

CASTRO COUNTY, TEXAS  
OBSERVATION WELLS  
January 1954

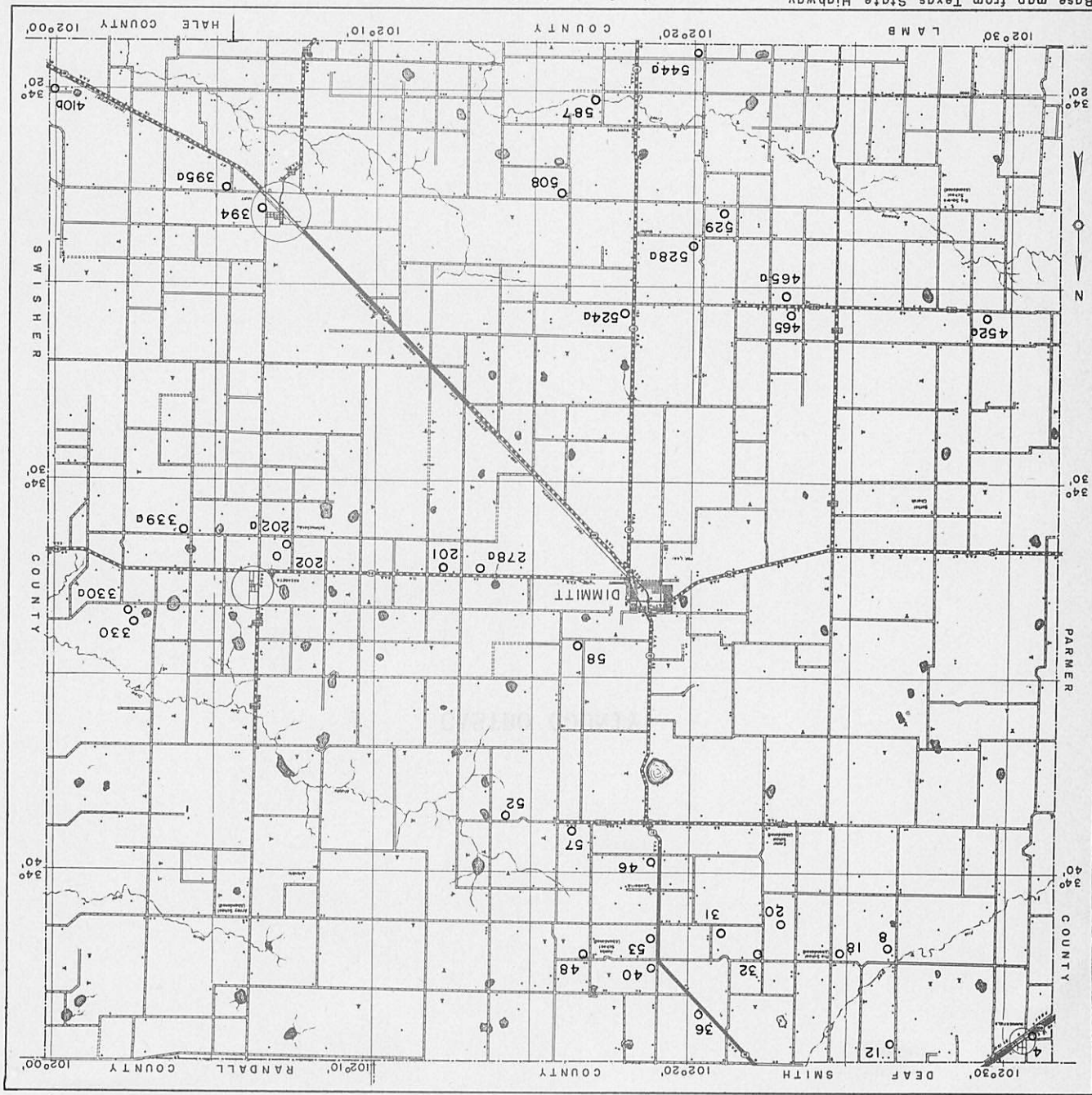


**CASTRO COUNTY**

# CASTRO COUNTY, TEXAS OBSERVATION WELLS

January 1954

Bulletin 5406  
Texas Board of Water Engineers  
in cooperation with  
U. S. Geological Survey



Base map from Texas State Highway Department

0 1 2 3 4 5 MILES

## CASTRO COUNTY

4. Lat.  $34^{\circ}44'$ , long.  $102^{\circ}30'$ . Depth 111 feet.

Date	Water level	Date	Water level	Date	Water level
Aug. 19, 1937	101.50	June 25, 1938	101.87	June 27, 1939	101.86
Sept. 16	101.50	Aug. 12	101.90	Nov. 8, 1940	102.53
Jan. 18, 1938	101.42	Sept. 15	101.78	Mar. 7, 1941	102.65
Feb. 26	101.29	Oct. 21	101.81	Feb. 18, 1944	102.61
Mar. 11	101.55	Dec. 16	101.77	Mar. 20, 1947	104.07
Mar. 29	101.93	Mar. 30, 1939	101.75		

8. Lat.  $34^{\circ}42'$ , long.  $102^{\circ}26'$ . Depth 160 feet.

Oct. 28, 1937	71.58	Mar. 19, 1940	72.96	Mar. 20, 1947	72.84
Nov. 23	74.82	Jan. 28, 1941	74.04	Jan. 15, 1948	76.69
Mar. 12, 1938	71.40	Dec. 22	71.91	Mar. 9	75.71
May 27	72.90	Feb. 4, 1942	71.64	Mar. 14, 1949	78.76
Oct. 21	75.40	Nov. 27	71.03	Feb. 9, 1950	79.64
Nov. 25	72.92	Feb. 8, 1943	71.04	Jan. 25, 1951	81.30
Jan. 3, 1939	73.15	Feb. 17, 1944	71.74	Jan. 18, 1952	83.16
Mar. 3	72.75	Feb. 28, 1945	71.86	Jan. 8, 1953	87.30
June 29	73.81	Feb. 25, 1946	72.63	Jan. 5, 1954	91.14
Dec. 5	73.43	Jan. 17, 1947	73.08		

12. Lat.  $34^{\circ}44'$ , long.  $102^{\circ}26'$ . Depth 111 feet.

Oct. 28, 1937	100.48	June 29, 1939	100.60	Mar. 6, 1941	102.75
Dec. 11	100.53	Sept. 12	100.82	Sept. 18, 1942	102.03
Mar. 30, 1938	100.23	Dec. 5	100.88	Nov. 27	101.92
May 27	100.28	Mar. 19, 1940	101.06	Feb. 8, 1943	101.81
Oct. 21	100.80	Nov. 17	102.46		
Dec. 15	100.58	Jan. 28, 1941	102.53		

18. Lat.  $34^{\circ}42'$ , long.  $102^{\circ}42'$ . Depth 74 feet.

Dec. 13, 1937	65.58	June 29, 1939	67.75	Feb. 28, 1945	69.35
Mar. 12, 1938	66.71	Dec. 22, 1941	68.58	Feb. 27, 1946	70.10
May 27	61.16	Feb. 4, 1942	68.14	Jan. 17, 1947	69.08
June 27	67.21	Nov. 27	67.30	Mar. 20	70.09
Aug. 12	67.18	Feb. 8, 1943	67.38	Mar. 9, 1948	70.98
Nov. 25	67.50	Feb. 17, 1944	68.53	Mar. 14, 1949	72.30



## CASTRO COUNTY

20. Lat. 34°41', long. 102°22'. Depth 120 feet.

Date	Water level	Date	Water level	Date	Water level
May 28, 1936	67.77	June 29, 1939	70.00	Feb. 25, 1946	71.99
June 10	67.30	Dec. 5	72.91	Jan. 17, 1947	73.74
Oct. 28, 1937	68.57	Mar. 19, 1940	70.12	Mar. 20	72.81
Mar. 12, 1938	69.84	Nov. 7	75.86	Jan. 15, 1948	73.87
Mar. 30	69.58	Jan. 28, 1941	71.37	Mar. 9	73.36
May 27	70.63	Mar. 5	72.00	Mar. 14, 1949	74.57
June 27	71.26	Dec. 2	71.14	Feb. 9, 1950	76.38
Aug. 12	71.93	Feb. 4, 1942	70.67	Jan. 25, 1951	74.87
Sept. 15	69.99	Nov. 27	69.21	Jan. 18, 1952	81.02
Oct. 21	68.65	Feb. 8, 1943	68.76	Jan. 8, 1953	82.25
Dec. 16	68.18	Feb. 17, 1944	68.96	Jan. 5, 1954	86.21
Mar. 3, 1939	70.97	Feb. 28, 1945	69.50		

31. Lat. 34°41', long. 102°21'. Depth 140 feet.

May 28, 1936	57.50	June 27, 1938	59.56	Nov. 7, 1940	64.55
June 19	57.51	Nov. 25	59.01	Jan. 28, 1941	61.56
May 20, 1937	63.15	Mar. 4, 1939	58.55	Dec. 22	58.69
Nov. 22	58.64	June 29	60.18	Nov. 27, 1942	57.52
Mar. 12, 1938	58.61	Dec. 5	60.00	Feb. 8, 1943	53.35
Mar. 30	58.49	Mar. 19, 1940	59.58		

32. Lat. 34°42', long. 102°22'. Depth 126 feet.

May 28, 1936	64.73	Sept. 12, 1939	75.10	Feb. 25, 1946	67.25
June 19	64.44	Dec. 5	64.40	Jan. 17, 1947	65.56
May 20, 1937	64.33	Mar. 19, 1940	63.96	Mar. 20	67.23
June 25	63.52	Nov. 7	67.75	Mar. 9, 1948	66.82
Nov. 13	63.32	Jan. 28, 1941	65.73	Mar. 14, 1949	68.78
Mar. 30, 1938	62.97	Mar. 5	65.54	Feb. 16, 1950	70.61
May 27	63.83	Dec. 22	63.74	Jan. 25, 1951	71.81
June 27	64.56	Feb. 4, 1942	62.72	Jan. 18, 1952	73.57
Sept. 15	64.52	Nov. 27	62.17	Jan. 8, 1953	76.23
Nov. 25	63.93	Feb. 8, 1943	62.05	Jan. 5, 1954	78.97
Mar. 3, 1939	63.21	Feb. 17, 1944	63.31		
June 29	64.23	Feb. 28, 1945	64.60		

## CASTRO COUNTY

36. Lat. 34°43', long. 102°20'. Depth 181 feet.

Date	Water level	Date	Water level	Date	Water level
Jan. 14, 1937	79.70	Nov. 7, 1940	91.44	Jan. 16, 1947	87.91
Nov. 18	86.14	Jan. 28, 1941	86.62	Mar. 20	87.57
Dec. --	83.75	Mar. 5	86.89	Jan. 15, 1948	89.86
Mar. 29, 1938	82.74	Dec. 22	84.96	Mar. 9	89.40
May 27	84.78	Feb. 4, 1942	85.51	Mar. 14, 1949	91.66
June 25	85.35	Nov. 27	82.24	Feb. 16, 1950	94.09
Nov. 25	83.27	Feb. 8, 1943	84.02	Jan. 25, 1951	95.48
Mar. 3, 1939	82.18	Feb. 17, 1944	84.91	Jan. 18, 1952	100.52
June 29	86.56	Feb. 28, 1945	85.10	Jan. 5, 1954	107.98
Mar. 19, 1940	84.23	Feb. 25, 1946	86.98		

40. Lat. 34°42', long. 102°18'. Depth 132 feet.

Oct. 26, 1937	63.30	Mar. 19, 1940	64.25	Feb. 25, 1946	67.12
Mar. 30, 1938	62.72	Nov. 7	67.17	Mar. 9, 1948	69.30
May 27	62.24	Jan. 28, 1941	65.75	Mar. 12	69.35
June 25	63.73	Mar. 5	65.52	Feb. 16, 1950	72.19
Sept. 15	63.88	Dec. 22	65.16	Jan. 25, 1951	74.32
Oct. 21	63.31	Feb. 4, 1942	64.70	Jan. 18, 1952	77.12
Jan. 3, 1939	62.67	Nov. 27	63.82	Jan. 8, 1953	80.18
Mar. 3	62.53	Feb. 8, 1943	68.20	Jan. 5, 1954	84.82
June 29	65.04	Feb. 17, 1944	64.28		
Dec. 5	64.85	Feb. 28, 1945	65.29		

46. Lat. 34°39', long. 102°18'. Depth 175 feet.

Oct. 26, 1937	42.09	June 29, 1939	72.33	Mar. 5, 1941	73.13
Mar. 30, 1938	70.22	Sept. 12	72.58	July 26	73.46
May 27	71.12	Dec. 5	71.47	Dec. 22	72.95
June 25	70.79	Mar. 19, 1940	71.20	Feb. 4, 1942	72.58
Nov. 25	70.82	Nov. 7	74.28		
Mar. 3, 1939	70.44	Jan. 28, 1941	73.27		

## CASTRO COUNTY

48. Lat.  $34^{\circ}42'$ , long.  $102^{\circ}16'$ . Depth 162 feet.

Date	Water level	Date	Water level	Date	Water level
May 1, 1936	62.42	Mar. 19, 1940	62.91	Jan. 16, 1947	67.25
Oct. 26, 1937	67.53	Nov. 7	77.36	Mar. 20	64.47
Mar. 30, 1938	60.80	Jan. 28, 1941	65.93	Mar. 9, 1948	64.00
May 27	68.72	Mar. 5	64.38	Mar. 14, 1949	67.56
Aug. 12	64.55	Dec. 22	61.70	Feb. 7, 1950	65.50
Sept. 15	61.47	Feb. 4, 1942	60.80	Jan. 25, 1951	65.02
Oct. 21	61.24	Nov. 27, 1942	58.96	Jan. 18, 1952	67.29
Mar. 3, 1939	59.81	Feb. 8, 1943	58.19	Jan. 8, 1953	69.51
June 29	67.16	Feb. 17, 1944	59.28	Jan. 5, 1954	70.96
Sept. 12	73.23	Feb. 28, 1945	59.01		
Dec. 5	77.66	Feb. 25, 1946	66.20		

52. Lat.  $34^{\circ}38'$ , long.  $102^{\circ}41'$ . Depth 170 feet.

Dec. 1, 1937	71.55	Dec. 5, 1939	71.09	Feb. 25, 1946	75.05
Mar. 12, 1938	71.31	Mar. 19, 1940	71.09	Jan. 16, 1947	79.78
May 27	71.24	Jan. 28, 1941	80.54	Mar. 20	78.15
July 13	71.23	Mar. 5	79.07	Mar. 9, 1948	76.10
Aug. 12	71.14	Dec. 22	74.70	Mar. 14, 1949	79.69
Sept. 15	71.20	Sept. 17, 1942	77.12	Feb. 7, 1950	83.26
Oct. 21	71.19	Nov. 27	74.42	Jan. 25, 1951	86.04
Dec. 16	71.14	Feb. 8, 1943	74.01	Jan. 25, 1952	88.20
June 29, 1939	71.22	Feb. 17, 1944	74.06	Jan. 8, 1953	93.66
Sept. 12	71.08	Feb. 28, 1945	72.97	Jan. 5, 1954	101.07

53. Lat.  $34^{\circ}41'$ , long.  $102^{\circ}18'$ . Depth 135 feet.

Apr. 30, 1936	56.67	Jan. 28, 1941	61.60	Mar. 20, 1947	64.15
May 28	57.97	Mar. 5	61.19	Jan. 15, 1948	67.05
June 19	57.27	July 26	60.55	Mar. 9	65.98
Mar. 29, 1938	57.04	Feb. 4, 1942	59.61	Mar. 14, 1949	68.10
May 27	58.35	July 3	60.60	Feb. 7, 1950	68.68
June 25	58.18	Nov. 24	58.10	Jan. 25, 1951	71.26
Dec. 16	58.42	Feb. 8, 1943	57.34	Jan. 18, 1952	73.59
Mar. 3, 1939	57.09	Feb. 17, 1944	58.26	Jan. 8, 1953	80.87
June 29	58.57	Feb. 28, 1945	59.77	Jan. 5, 1954	85.14
Mar. 19, 1940	60.12	Feb. 25, 1946	61.90		
Nov. 7	62.95	Jan. 16, 1947	65.12		

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CASTRO COUNTY

57. Lat.  $34^{\circ}38'$ , long.  $102^{\circ}16'$ . Depth 100 feet.

Date	Water level	Date	Water level	Date	Water level
May 27, 1938	75.24	Sept. 12, 1939	75.38	Feb. 17, 1944	74.62
June 25	75.48	Dec. 5	75.45	Mar. 20, 1947	79.78
Aug. 12	75.50	Mar. 19, 1940	75.37	Mar. 9, 1948	79.88
Sept. 15	75.48	July 23	75.95	Mar. 14, 1949	80.66
Oct. 21	75.42	Dec. 19	76.07	Feb. 7, 1950	82.23
Dec. 16	75.37	Jan. 28, 1941	76.03	Jan. 25, 1951	84.04
Jan. 26, 1939	75.36	Mar. 5	76.00	Jan. 18, 1952	86.20
Mar. 3	75.30	Dec. 22	74.77	Jan. 8, 1953	90.19
June 29	75.31	Feb. 4, 1942	73.98	Jan. 5, 1954	101.34

58. Lat.  $34^{\circ}34'$ , long.  $102^{\circ}16'$ . Depth 173 feet.

July 13, 1938	153.05	Nov. 7, 1940	153.16	Feb. 28, 1945	151.75
Sept. 15	153.28	Dec. 19	153.16	Feb. 27, 1946	151.75
Oct. 21	152.98	Jan. 28, 1941	153.11	Jan. 16, 1947	151.58
Dec. 16	153.03	Mar. 5	153.07	Mar. 20	151.61
Jan. 26, 1939	153.37	July 26	153.13	Mar. 9, 1948	151.32
Mar. 3	153.21	Dec. 22	152.99	Mar. 14, 1949	151.20
June 29	153.00	Feb. 4, 1942	152.97	Feb. 9, 1950	151.34
Sept. 12	153.05	Aug. 3	152.80	Jan. 27, 1951	151.64
Dec. 5	153.05	Nov. 27	152.50	Jan. 18, 1952	152.08
Mar. 19, 1940	153.04	Feb. 8, 1943	152.40	Jan. 7, 1953	152.20
July 23	153.01	Feb. 3, 1944	152.90	Jan. 4, 1954	157.75

201. Lat.  $34^{\circ}32'$ , long.  $102^{\circ}12'$ . Depth 183 feet.

July 13, 1938	152.52	July 23, 1940	152.29	Feb. 3, 1944	151.82
Sept. 15	152.46	Dec. 19	152.43	Mar. 20, 1947	151.60
Dec. 16	152.51	Mar. 7, 1941	152.43	Mar. 3, 1948	151.49
Jan. 26, 1939	152.56	Dec. 22	152.40	Mar. 14, 1949	152.90
Mar. 1	152.59	Feb. 4, 1942	152.36	Feb. 9, 1950	154.04
June 29	152.42	Aug. 3	152.19	Jan. 15, 1951	154.60
Sept. 12	152.50	Nov. 27	152.08	Jan. 17, 1952	154.80
Mar. 20, 1940	152.42	Feb. 8, 1943	152.05	Jan. 7, 1953	160.91

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CASTRO COUNTY

202. Lat. 34°31', long. 102°06'. Depth 126 feet.

Date	Water level	Date	Water level	Date	Water level
July 13, 1938	104.14	Mar. 7, 1941	104.01	Mar. 3, 1948	102.80
Sept. 15	104.04	Feb. 4, 1942	102.10	Mar. 14, 1949	103.63
Dec. 16	103.89	Aug. 3	102.20	Feb. 9, 1950	104.45
Jan. 26, 1939	103.85	Nov. 27	101.92	Jan. 15, 1951	104.59
Mar. 1	103.83	Feb. 3, 1944	101.50	Jan. 17, 1952	105.35
June 29	103.60	Feb. 28, 1945	103.60	Jan. 7, 1953	105.34
Sept. 12	103.62	Feb. 27, 1946	102.15	Jan. 4, 1954	107.65
Mar. 20, 1940	103.67	Jan. 16, 1947	102.38		
July 23	103.80	Mar. 20	102.40		

202a. Lat. 34°31', long. 105°07'. Depth 250 feet.

Feb. 2, 1944	142.15	Mar. 14, 1949	146.40	Jan. 7, 1953	151.42
Feb. 27, 1946	142.30	Feb. 16, 1950	148.20	Jan. 4, 1954	155.27
Mar. 20, 1947	142.92	Jan. 17, 1952	148.90		

278a. Lat. 34°32', long. 102°13'.

Mar. 29, 1949	161.50	Jan. 15, 1951	163.84	Jan. 6, 1953	160.60
Feb. 16, 1950	164.22	Jan. 17, 1952	157.00	Jan. 4, 1954	165.63

330. Lat. 34°33', long. 102°02'. Depth 225 feet.

Feb. 3, 1943	122.40	Feb. 27, 1946	122.63	Jan. 18, 1952	122.50
Feb. 3, 1944	122.12	Mar. 20, 1947	123.20		
Feb. 28, 1945	122.28	Mar. 3, 1948	124.44		

330a. Lat. 34°33', long. 102°02'.

Mar. 14, 1939	127.27	Jan. 18, 1952	131.73	Jan. 4, 1954	127.63
Feb. 9, 1950	127.37	Jan. 7, 1953	130.03		

## CASTRO COUNTY

339a. Lat. 34°30', long. 102°03'. Depth 230 feet

Date	Water level	Date	Water level	Date	Water level
Feb. 3, 1943	120.25	Feb. 27, 1946	121.05	Feb. 9, 1950	124.33
Feb. 3, 1944	120.32	Mar. 20, 1947	122.19	Jan. 15, 1951	124.97
Feb. 28, 1945	120.56	Mar. 8, 1948	122.55	Jan. 17, 1952	125.04
Nov. 20	122.32	Mar. 14, 1949	122.68	Jan. 6, 1953	127.65

394. Lat. 34°23', long. 102°06'. Depth 296 feet.

Feb. 14, 1939	91.18	Feb. 28, 1945	91.53	Feb. 7, 1950	96.29
Sept. 20	91.13	Feb. 27, 1946	92.70	Jan. 15, 1951	96.71
Aug. 30, 1940	95.28	Jan. 14, 1947	92.56	Jan. 17, 1952	100.08
Nov. 16, 1942	90.70	Mar. 22	92.37	Jan. 7, 1953	101.91
Feb. 24, 1943	90.58	Mar. 9, 1947	93.40	Jan. 4, 1954	107.03
Feb. 7, 1944	91.15	Mar. 11, 1949	95.26		

395a. Lat. 34°22', long. 102°05'. Depth 207 feet.

Feb. 19, 1940	89.97	Feb. 27, 1946	90.50	Jan. 15, 1951	95.99
Nov. 16, 1942	89.00	Mar. 22, 1947	90.81	Jan. 17, 1952	96.64
Feb. 24, 1943	88.00	Mar. 12, 1948	91.60	Jan. 6, 1953	98.89
Feb. 7, 1944	89.30	Mar. 11, 1949	93.14	Jan. 4, 1954	103.74
Feb. 28, 1945	89.43	Feb. 16, 1950	94.37		

410b. Lat. 34°20', long. 102°00'. Depth 228 feet.

Apr. 2, 1942	63.82	Feb. 27, 1946	66.60	Jan. 15, 1951	76.02
Nov. 16	64.15	Mar. 22, 1947	67.93	Jan. 17, 1952	77.80
Jan. 27, 1943	63.83	Mar. 11, 1948	69.58	Jan. 6, 1953	81.32
Feb. 7, 1944	64.48	Mar. 16, 1949	72.53	Jan. 4, 1954	85.77
Feb. 28, 1945	65.88	Feb. 7, 1950	74.53		

452a. Lat. 34°25', long. 102°29'.

Jan. 17, 1952	102.26	Jan. 7, 1953	104.68	Jan. 4, 1954	106.10
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CASTRO COUNTY

465. Lat. 34°25', long. 102°22'. Depth 197 feet.

Date	Water level	Date	Water level	Date	Water level
Jan. 11, 1939	98.80	Feb. 27, 1946	94.43	Jan. 15, 1951	96.96
Nov. 13, 1942	95.60	Jan. 14, 1947	96.97	Jan. 17, 1952	98.05
Feb. 24, 1943	95.24	Mar. 22	94.91	Jan. 7, 1953	99.48
Feb. 4, 1944	94.83	Mar. 3, 1948	95.45	Jan. 4, 1954	102.26
Feb. 28, 1945	94.51	Mar. 16, 1949	95.85		

465a. Lat. 34°25', long. 102°21'.

Feb. 16, 1950	98.32	Jan. 18, 1952	99.95	Jan. 4, 1954	104.45
Jan. 12, 1951	99.57	Jan. 7, 1953	101.36		

508. Lat. 34°22', long. 102°15'. Depth 200 feet.

June 9, 1938	79.53	Feb. 27, 1946	77.25	Feb. 16, 1950	83.15
Nov. 17, 1942	75.53	Mar. 22, 1947	78.40	Jan. 15, 1951	81.69
Feb. 24, 1943	75.33	Mar. 3, 1948	79.43	Jan. 17, 1952	83.84
Feb. 4, 1944	76.02	Mar. 16, 1949	80.48	Jan. 5, 1954	89.69

524a. Lat. 34°25', long. 102°18'.

Feb. 7, 1950	82.04	Jan. 17, 1952	84.48	Jan. 4, 1954	89.76
Jan. 15, 1951	83.32	Jan. 7, 1953	86.24		

528a. Lat. 34°23', long. 102°19'. Depth 202 feet.

Aug. 21, 1942	86.85	Mar. 22, 1947	91.35	Jan. 17, 1952	96.34
Nov. 13	86.07	Mar. 3, 1948	90.40	Jan. 6, 1953	99.19
Feb. 24, 1943	85.77	Mar. 16, 1949	92.20	Jan. 4, 1954	102.68
Feb. 4, 1944	86.00	Feb. 7, 1950	93.12		
Nov. 20, 1945	89.95	Jan. 15, 1951	95.06		

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CASTRO COUNTY

529. Lat. 34°23', long. 102°20'. Depth 200 feet.

Date	Water level	Date	Water level	Date	Water level
Sept. 21, 1939	94.16	Mar. 22, 1947	91.58	Jan. 15, 1951	95.24
Feb. 4, 1944	88.20	Mar. 3, 1948	91.83	Jan. 17, 1952	96.94
Feb. 28, 1945	88.65	Mar. 16, 1949	93.24	Jan. 6, 1953	98.84
Feb. 27, 1946	89.88	Feb. 7, 1950	94.28	Jan. 4, 1954	101.61

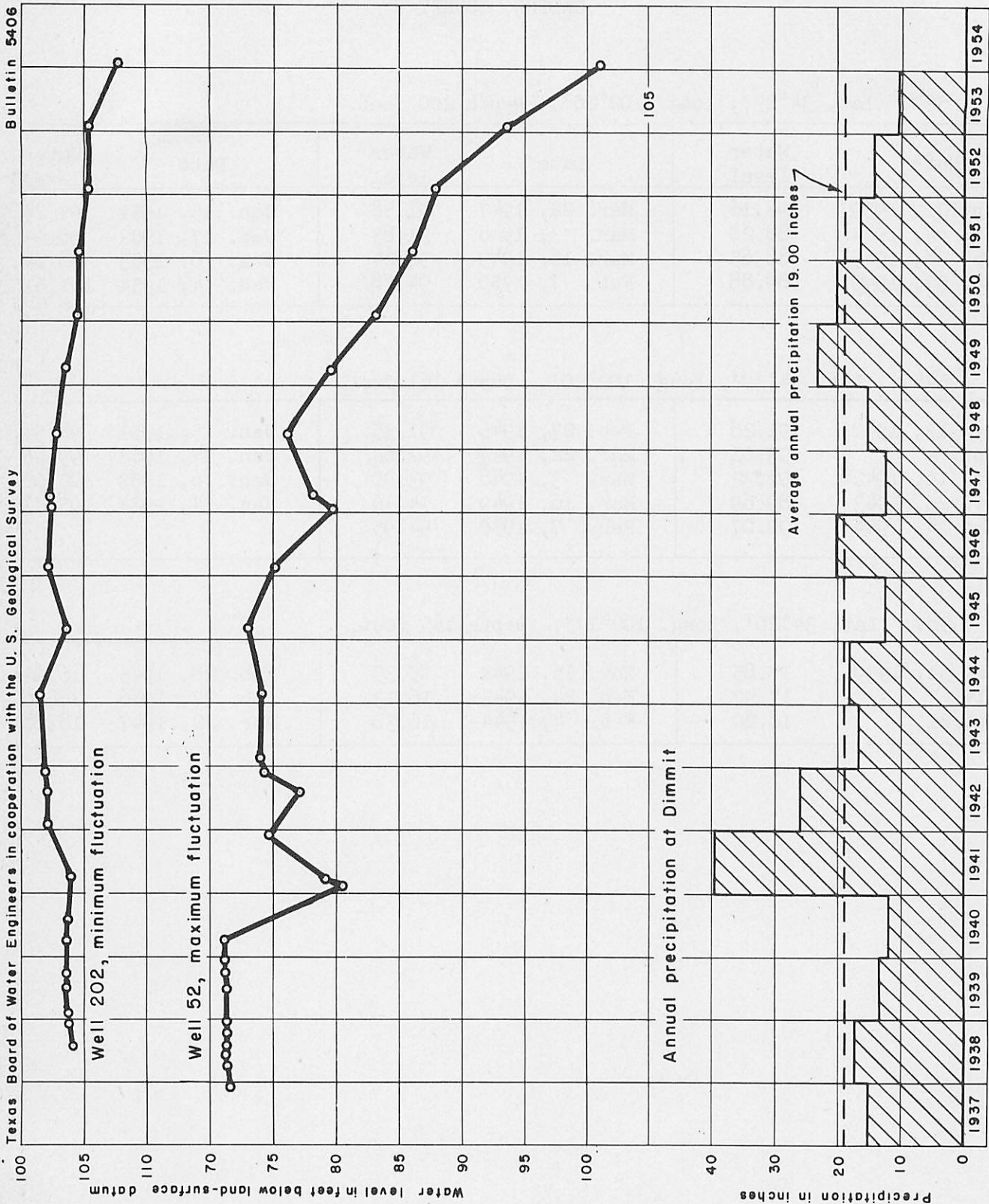
544a. Lat. 34°19', long. 102°20'. Depth 161 feet.

May 13, 1940	91.26	Feb. 27, 1946	91.35	Jan. 15, 1951	98.34
Sept. 4	93.01	Mar. 22, 1947	91.82	Jan. 17, 1952	99.96
Nov. 10, 1942	92.32	Mar. 3, 1948	93.00	Jan. 6, 1953	102.02
Feb. 23, 1943	89.69	Mar. 16, 1949	94.46	Jan. 4, 1954	105.37
Feb. 4, 1944	90.07	Feb. 7, 1950	94.95		

587. Lat. 34°20', long. 102°17'. Depth 165 feet.

Mar. 31, 1939	17.85	Nov. 16, 1942	15.39	Feb. 28, 1945	16.94
July 7	17.97	Feb. 24, 1943	16.13	Feb. 27, 1946	18.20
Sept. 21	18.20	Feb. 4, 1944	16.30	Mar. 22, 1947	18.28

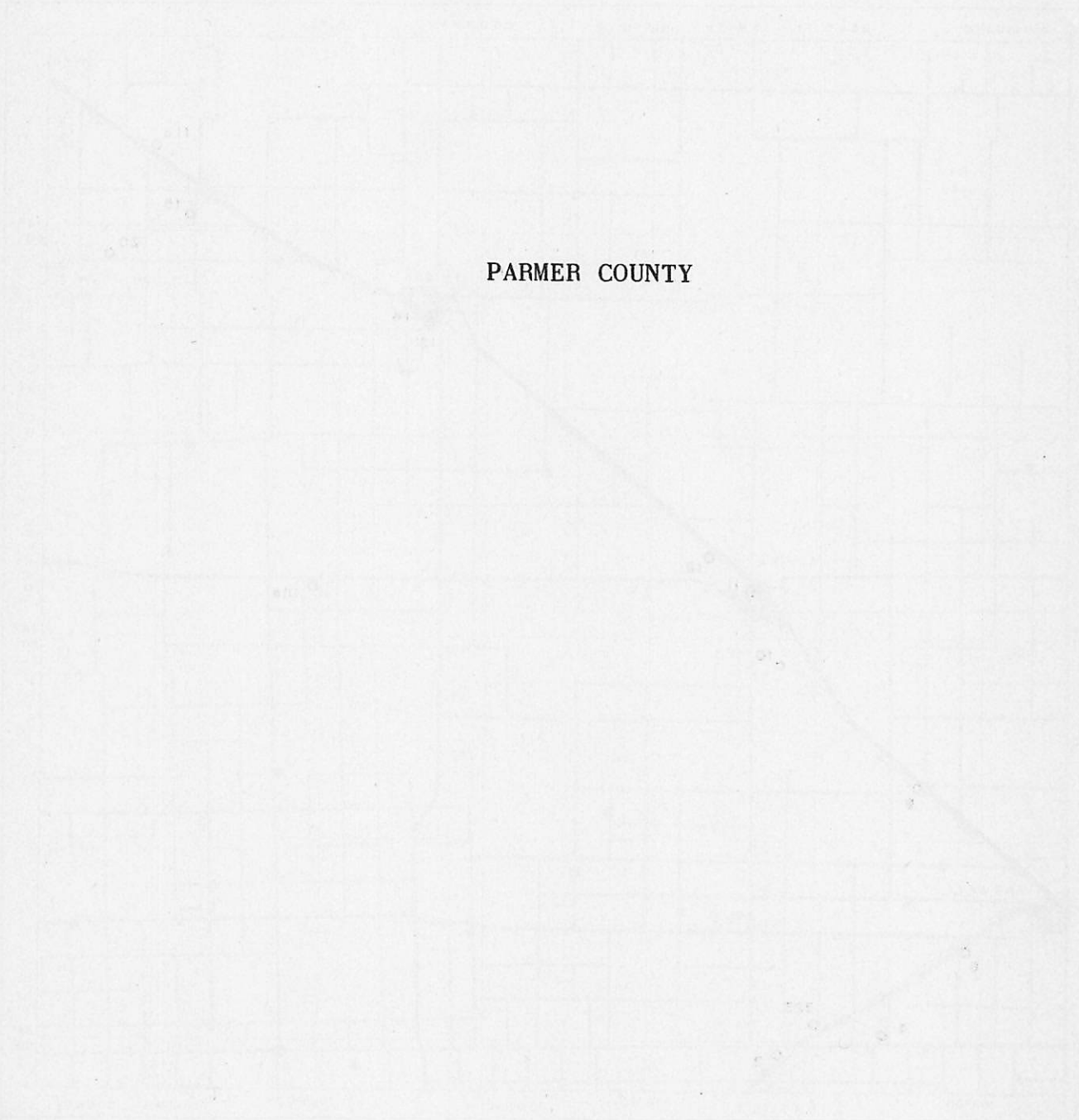




Hydrographs showing fluctuation of water levels in Castro County wells and the annual precipitation at Dimmit, Tex.

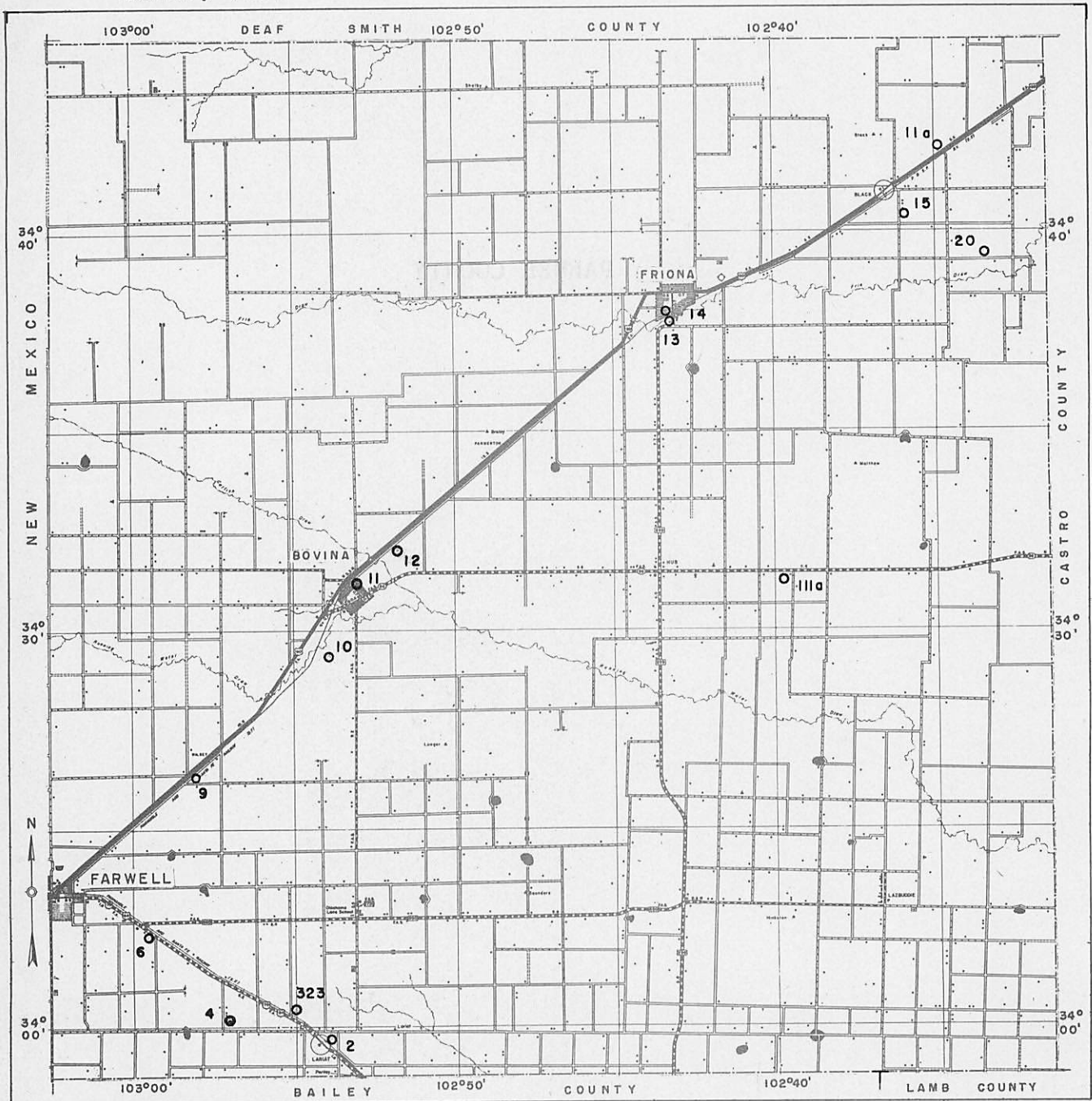
U.S. Geological Survey  
in cooperation with  
Texas State Water Experiment  
Station

PARMER COUNTY, TEXAS  
OBSERVATION WELLS  
January 1954



# PARMER COUNTY, TEXAS OBSERVATION WELLS January 1954

Bulletin 5406  
Texas Board of Water Engineers  
in cooperation with  
U. S. Geological Survey



Base map from Texas State  
Highway Department

0 1 2 3 4 5 MILES

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PARMER COUNTY

2. Lat.  $34^{\circ}19'$ , long.  $102^{\circ}53'$ . Depth 150 feet.

Date	Water level	Date	Water level	Date	Water level
Sept. 16, 1937	103.93	Sept. 14, 1939	103.48	Mar. 17, 1942	101.95
Jan. 13, 1938	103.87	Dec. 6	103.48	July 29	101.88
June 10	103.89	Jan. 27, 1941	103.46	Feb. 12, 1943	101.82
Sept. 19	103.71	Mar. 10	103.44		
July 8, 1939	103.48	July 30	103.13		

4. Lat.  $34^{\circ}20'$ , long.  $102^{\circ}57'$ . Depth 136 feet.

June 22, 1937	124.25	Feb. 13, 1950	116.28	Jan. 15, 1953	115.00
Oct. 26	124.25	Jan. 21, 1951	115.85		
Mar. 17, 1949	115.09	Feb. 2, 1952	114.60		

6. Lat.  $34^{\circ}22'$ , long.  $102^{\circ}59'$ . Depth 175 feet.

June 22, 1937	155.75	Feb. 15, 1944	154.13	Jan. 21, 1951	155.40
Sept. 15	157.19	Mar. 2, 1945	154.00	Feb. 1, 1952	156.10
Jan. 13, 1938	155.60	Mar. 17, 1948	153.75	Jan. 15, 1953	153.95
Mar. 17, 1942	154.62	Mar. 17, 1949	153.79	Jan. 5, 1954	154.80
Feb. 12, 1943	154.48	Feb. 13, 1950	153.05		

9. Lat.  $34^{\circ}26'$ , long.  $102^{\circ}58'$ . Depth 220 feet.

June 21, 1937	210.33	Sept. 14, 1939	211.22	Jan. 21, 1951	215.05
Aug. 17	210.26	Mar. 17, 1948	209.95	Feb. 1, 1952	211.25
Oct. 26	210.47	Mar. 17, 1949	209.55	Jan. 15, 1953	212.37
Jan. 12, 1938	210.40	Feb. 13, 1950	213.59	Jan. 5, 1954	213.94

10. Lat.  $34^{\circ}29'$ , long.  $102^{\circ}54'$ . Depth 192 feet.

June 22, 1937	168.05	Mar. 17, 1949	168.65	Jan. 15, 1953	167.08
Oct. 26	169.59	Feb. 14, 1950	167.13	Jan. 5, 1954	168.53
Jan. 12, 1938	167.82	Jan. 21, 1951	168.42		
Mar. 17, 1948	167.38	Feb. 1, 1952	166.40		

## PARMER COUNTY

11. Lat. 34°31', long. 102°53'. Depth 165 feet.

Date	Water level	Date	Water level	Date	Water level
June 21, 1937	146.35	Jan. 12, 1938	145.96	Mar. 30, 1939	145.72
Aug. 17	146.08	June 10	146.10	Sept. 14	145.66
Oct. 25	147.10	Sept. 19	145.98	Dec. 6	145.55

11a. Lat. 34°42', long. 102°34'. Depth 160 feet.

June 10, 1938	117.48	Mar. 30, 1939	117.24	Feb. 14, 1950	118.82
Aug. 12	117.41	Sept. 14	117.34	Jan. 15, 1953	124.13
Sept. 15	117.48	Mar. 15, 1948	121.81	Jan. 6, 1954	126.86
Oct. 21, 1938	117.43	Mar. 17, 1949	120.17		

12. Lat. 34°32', long. 102°51'. Depth 235 feet.

June 22, 1937	166.25	Mar. 17, 1949	161.86	Jan. 15, 1953	162.68
Oct. 25	164.84	Feb. 14, 1950	161.93	Jan. 5, 1954	164.97
Jan. 12, 1938	168.95	Jan. 21, 1951	162.78		
Mar. 17, 1948	161.85	Feb. 1, 1952	163.02		

13. Lat. 34°37', long. 102°43'. Depth 151 feet.

June 23, 1937	126.25	June 10, 1938	125.52	Sept. 14, 1939	126.17
Aug. 17	125.81	Sept. 15	126.21	Dec. 6	
Oct. 25	126.52	Oct. 21	126.19		
Jan. 12, 1938	125.89	Mar. 30, 1939	125.90		

14. Lat. 34°37', long. 102°43'. Depth 132 feet.

Aug. 17, 1937	125.62	June 10, 1938	125.82	Mar. 30, 1939	125.51
Oct. 25	125.65	Sept. 15	125.93	Sept. 14	125.86
Jan. 12, 1938	125.60	Oct. 21	125.88	Dec. 6	125.72

## PARMER COUNTY

15. Lat.  $34^{\circ}40'$ , long.  $102^{\circ}35'$ . Depth 165 feet.

Date	Water level	Date	Water level	Date	Water level
June 23, 1937	139.13	Mar. 30, 1939	138.72	Mar. 27, 1947	138.54
Aug. 18	139.10	Sept. 14	138.81	Mar. 17, 1948	138.55
Oct. 26	139.00	Feb. 5, 1942	138.52	Mar. 17, 1949	139.05
Jan. 12, 1938	138.91	Aug. 3	138.39	Feb. 14, 1950	140.88
June 10	138.99	Feb. 9, 1943	138.30	Jan. 21, 1951	141.15
Sept. 15	138.90	Feb. 18, 1944	138.22	Feb. 5, 1952	142.59

20. Lat.  $34^{\circ}39'$ , long.  $102^{\circ}33'$ . Depth 185 feet.

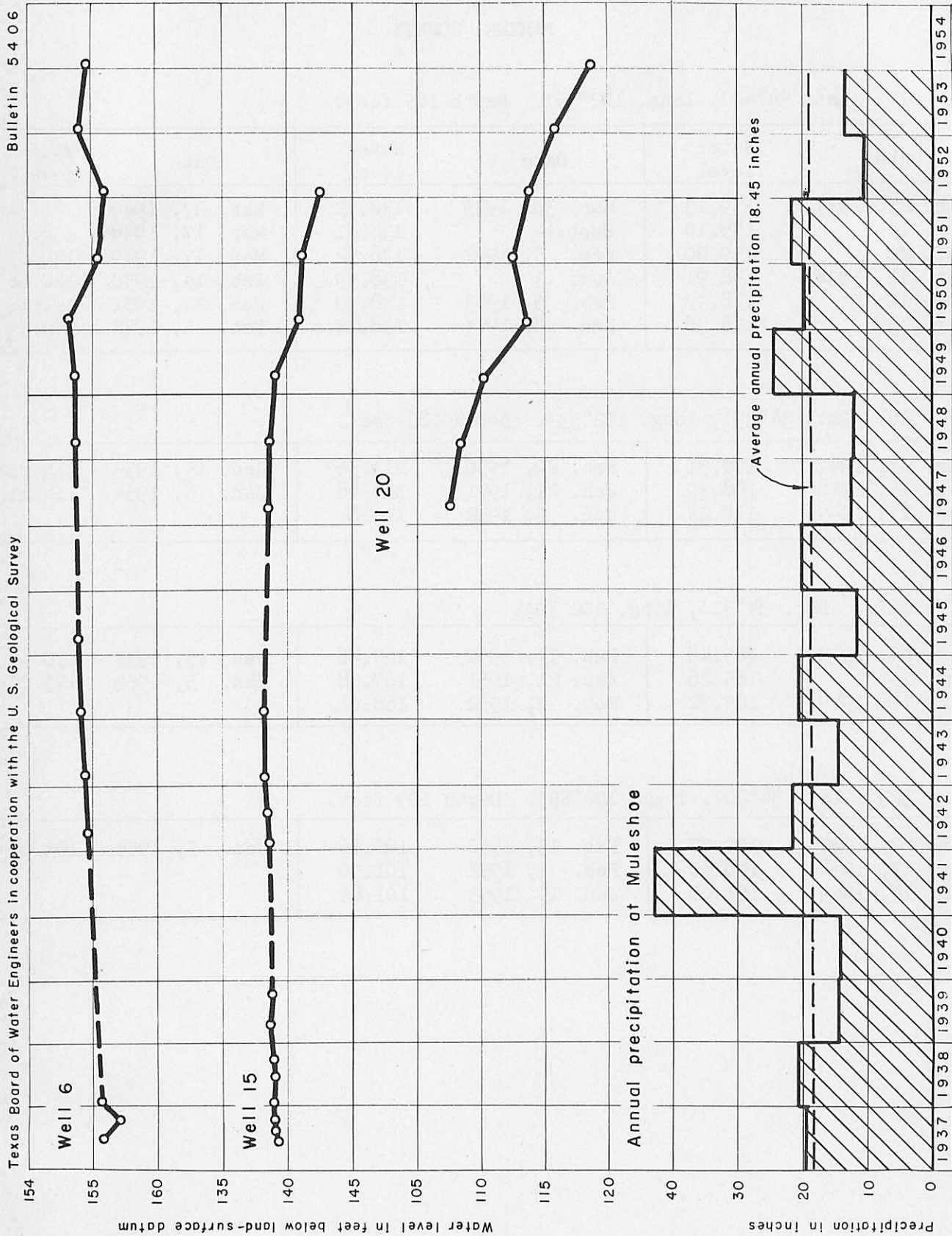
Mar. 27, 1947	107.51	Feb. 20, 1950	113.56	Jan. 15, 1953	115.91
Mar. 15, 1948	108.39	Jan. 21, 1951	112.48	Jan. 5, 1954	118.61
Mar. 17, 1949	110.25	Feb. 5, 1952	113.84		

111a. Lat.  $34^{\circ}31'$ , long.  $102^{\circ}39'$ .

Jan. 12, 1948	165.48	Feb. 14, 1950	165.46	Jan. 15, 1953	170.45
Mar. 15	165.26	Jan. 21, 1951	167.58	Jan. 5, 1954	173.00
Mar. 17, 1949	165.72	Feb. 1, 1952	168.01		

323. Lat.  $34^{\circ}20'$ , long.  $102^{\circ}55'$ . Depth 109 feet.

June 22, 1937	102.77	Feb. 13, 1950	102.16	Jan. 5, 1954	103.02
Mar. 17, 1948	100.50	Feb. 1, 1952	101.70		
Mar. 17, 1949	101.00	Jan. 15, 1953	101.85		



Hydrographs showing fluctuation of water levels in Parmer County wells and the annual precipitation at Muleshoe, Tex.

U. S. GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
BULLETIN 1034  
POTTER COUNTY, TEXAS  
OBSERVATION WELLS  
1960

POTTER COUNTY, TEXAS  
OBSERVATION WELLS  
1960

POTTER COUNTY



# POTTER COUNTY, TEXAS OBSERVATION WELLS

January 1954

Bulletin 5406  
Texas Board of Water Engineers  
in cooperation with  
U. S. Geological Survey



Base map from Texas State  
Highway Department

0 1 2 3 4 5 MILES

## POTTER COUNTY

38. Lat. 35°34', long. 101°54'. Depth 120 feet.

Date	Water level	Date	Water level	Date	Water level
July 12, 1937	95.18	Mar. 8, 1939	94.56	Aug. 9, 1940	93.95
Jan. 27, 1938	95.42	June 28	94.33	Dec. 7	94.07
May 10	95.05	Dec. 20	94.05	Dec. 2, 1941	93.86

38a. Lat. 35°34', long. 101°54'. Depth 102 feet.

Jan. 27, 1938	49.04	June 28, 1939	48.78	Dec. 7, 1940	49.37
May 10	49.01	Dec. 20	48.78	Dec. 2, 1941	45.37
Feb. 9, 1939	47.94	Apr. 12, 1940	49.30		
Mar. 8	48.41	Aug. 9	49.18		

84a. Lat. 35°26', long. 101°50'.

Jan. 27, 1938	0.03	Mar. 8, 1939	.50	Apr. 12, 1940	.80
May 10	.36	June 28	.54	Dec. 7	.73
Feb. 9, 1939	.43	Dec. 20	1.02	Dec. 2, 1941	.05

210. Lat. 35°19', long. 101°49'. Depth 81 feet.

July 10, 1937	75.08	Mar. 8, 1939	74.83	Aug. 9, 1940	74.50
Jan. 27, 1938	75.28	June 28	74.80	Dec. 7	74.65
May 10	75.09	Dec. 20	74.48	Dec. 2, 1941	74.66
Feb. 6, 1939	74.37	July 12, 1940	74.87		

246. Lat. 35°13', long. 101°46'. Depth 228 feet.

June 23, 1937	212.66	July 1, 1939	213.0	Aug. 6, 1940	214.48
Jan. 27, 1938	213.08	Dec. 23	213.09	Dec. 4	214.60
May 114	213.15	Apr. 9, 1940	213.77	Dec. 2, 1941	213.70

STATE OF TEXAS  
COUNTY OF RANDALL  
WATER RIGHTS

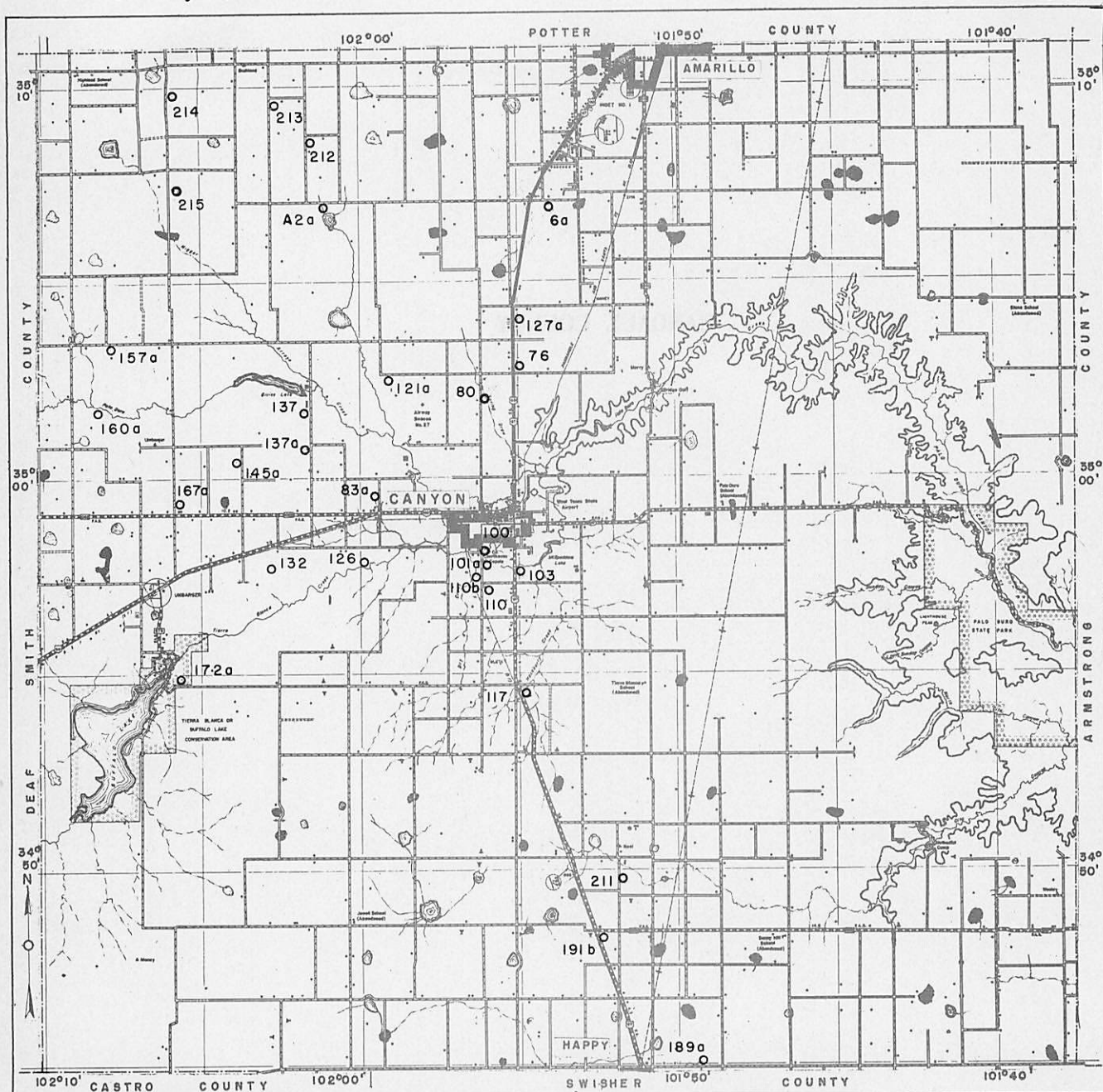
RANDALL COUNTY TEXAS  
OBSERVATION WELLS  
January 1924

**RANDALL COUNTY**

# RANDALL COUNTY, TEXAS OBSERVATION WELLS

January 1954

Bulletin 5406  
Texas Board of Water Engineers  
in cooperation with  
U. S. Geological Survey



Base map from Texas State  
Highway Department

0 1 2 3 4 5 MILES

51  
RANDALL COUNTY

A2a. Lat. 35°06', long. 102°00'. Depth 200 feet.

Date	Water level	Date	Water level	Date	Water level
July 8, 1948	106.22	July 1, 1950	*118.20	Apr. 2, 1952	*126.29
Nov. 7	*106.73	Aug. 1	*119.10	May 9	*126.82
Dec. 4	*106.75	Sept. 1	*119.80	June 1	*127.12
Jan. 3, 1949	*106.76	Oct. 1	*120.48	July 12	*127.78
Feb. 9	*106.65	Nov. 1	*120.88	Aug. 1	*128.29
Mar. 21	*106.65	Dec. 1	*121.42	Sept. 1	*129.12
Apr. 9	*106.64	Jan. 1, 1951	*121.85	Oct. 1	*129.85
May 26	*106.75	Feb. 2	*122.06	Nov. 1	*130.57
June 3	*106.75	Mar. 1	*122.20	Dec. 2	*131.19
July 1	*107.07	Apr. 1	*122.44	Jan. 18, 1953	*131.73
Aug. 1	*108.21	May 1	*122.85	Feb. 1	*131.86
Sept. 1	*109.80	June 7	*123.24	Mar. 1	*131.90
Oct. 1	*110.90	July 2	*123.80	Apr. 6	*131.95
Nov. 1	*111.98	Aug. 1	*124.55	May 9	*132.05
Dec. 1	*113.00	Sept. 1	*125.43	June 1	*132.34
Jan. 1, 1950	*113.79	Oct. 1	*126.15	July 1	*132.78
Feb. 1	*114.34	Nov. 2	*126.55	Aug. 1	*133.41
Mar. 2	*114.82	Dec. 27	*126.45	Sept. 1	*134.02
Apr. 1	*115.54	Jan. 31, 1952	*126.09	Oct. 13	*134.36
May 1	*116.38	Feb. 23	*125.95	Nov. 30	135.42
June 1	*117.29	Mar. 1	*125.88	Jan. 11, 1954	135.95

6a. Lat. 35°07', long. 101°53'. Depth 160 feet.

July 24, 1937	143.80	June 28, 1939	143.23	Aug. 4, 1942	144.60
Apr. 21, 1938	142.90	Dec. 30	143.45	Nov. 24	144.73
June 24	142.82	Mar. 14, 1940	143.50	Jan. 8, 1943	144.82
Sept. 14	142.87	Dec. 7	143.68	Mar. 16	144.91
Mar. 7, 1939	143.04	Jan. 10, 1941	143.90	Mar. 1, 1946	147.15

76. Lat. 35°03', long. 101°55'. Depth 115 feet.

June 11, 1937	106.75	June 28, 1939	106.86	Aug. 4, 1942	107.20
July 24	106.55	Dec. 30	106.91	Nov. 24	106.85
Apr. 21, 1938	106.38	Mar. 14, 1940	106.92	Jan. 8, 1943	106.80
June 24	106.81	Dec. 7	107.34	Mar. 1, 1946	107.65
Sept. 14	106.77	Jan. 8, 1941	107.33	Mar. 26, 1947	108.24
Mar. 7, 1939	106.78	Feb. 18, 1942	107.00		

\* Monthly highest water level from recorder graph.

## RANDALL COUNTY

80. Lat.  $34^{\circ}01'$ , long.  $101^{\circ}56'$ . Depth 112 feet.

Date	Water level	Date	Water level	Date	Water level
June 11, 1937	100.20	Mar. 7, 1939	100.33	Mar. 1, 1946	104.70
Apr. 21, 1938	100.42	Mar. 14, 1940	104.21	June 20, 1947	100.78

83a. Lat.  $35^{\circ}03'$ , long.  $101^{\circ}55'$ . Depth 87 feet.

Mar. 11, 1938	79.18	June 28, 1939	79.04	Aug. 4, 1942	79.23
Apr. 20	79.16	Sept. 29	79.09	Feb. 10, 1943	79.48
June 10	79.08	Jan. 12, 1940	79.05	Mar. 1, 1946	78.85
Sept. 14	79.06	Mar. 14	79.06	Jan. 20, 1947	79.36
Oct. 20	79.06	July 24	79.01	Mar. 25	78.92
Dec. 13	79.10	Jan. 8, 1941	79.09	Mar. 15, 1948	79.59
Mar. 20, 1939	79.11	Mar. 19	79.06	Mar. 8, 1949	79.02

100. Lat.  $34^{\circ}59'$ , long.  $101^{\circ}58'$ .

May 14, 1937	50.06	May 31, 1941	52.54	Mar. 15, 1948	52.52
Jan. 12, 1941	53.48	Feb. 18, 1942	49.04	Mar. 7, 1949	50.90
Mar. 19	53.48	July 9	49.62		

101a. Lat.  $34^{\circ}57'$ , long.  $101^{\circ}56'$ .

Apr. 14, 1937	16.80	June 1, 1941	9.56	Mar. 1, 1946	9.80
Feb. 8, 1941	13.27	July 25	7.60	Mar. 25, 1947	8.98
Feb. 10	13.23	Feb. 18, 1942	7.25	Mar. 15, 1948	7.27
Mar. 19	13.18	July 8	8.68		
May 31	11.04	Jan. 8, 1943	8.30		

103. Lat.  $34^{\circ}57'$ , long.  $101^{\circ}54'$ .

June 14, 1937	8.09	Dec. 30, 1939	9.99	Mar. 25, 1947	9.38
Feb. 25, 1938	9.35	Jan. 12, 1940	10.01	Mar. 15, 1948	9.97
Apr. 20	9.50	Mar. 14	9.98	Mar. 8, 1949	9.28
June 24	9.65	Jan. 10, 1941	10.21	Feb. 11, 1950	9.11
Sept. 14	10.20	Feb. 18, 1942	9.15	Feb. 8, 1951	9.00
Dec. 13	9.84	July 8	9.86	Jan. 9, 1952	9.10
Mar. 7, 1939	9.71	Jan. 8, 1943	9.27	Jan. 15, 1953	10.50
Sept. 29	11.16	Mar. 1, 1946	9.80	Jan. 7, 1954	9.02

## RANDALL COUNTY

110. Lat.  $34^{\circ}57'$ , long.  $101^{\circ}56'$ . Depth 75 feet.

Date	Water level	Date	Water level	Date	Water level
Apr. 15, 1937	52.23	Jan. 8, 1943	51.03	Feb. 8, 1951	50.39
Jan. 9, 1941	52.62	Mar. 1, 1946	52.70	Jan. 12, 1952	50.19
Mar. 19	52.79	Mar. 25, 1947	53.25	Jan. 16, 1953	50.40
May 31	52.87	Mar. 15, 1948	56.25	Jan. 7, 1954	50.68
Feb. 18, 1942	50.81	Mar. 7, 1949	51.80		
July 8	50.88	Feb. 16, 1950	50.68		

110b. Lat.  $34^{\circ}57'$ , long.  $101^{\circ}56'$ .

Mar. 19, 1941	36.89	Feb. 18, 1942	31.35	Mar. 25, 1947	34.67
May 31	36.84	Jan. 8, 1943	32.62	Mar. 15, 1948	32.62
July 25	35.45	Mar. 1, 1946	35.10		

117. Lat.  $34^{\circ}54'$ , long.  $101^{\circ}54'$ . Depth 52 feet.

June 18, 1937	39.08	Dec. 30, 1939	40.41	Aug. 4, 1942	37.65
June 24, 1938	40.08	Mar. 14, 1940	40.67	Feb. 10, 1943	35.56
Sept. 14	39.72	Jan. 10, 1941	41.58	Mar. 1, 1946	39.50
Dec. 13	39.97	Mar. 19	41.70	Jan. 20, 1947	40.06
Mar. 7, 1939	40.22	May 31	41.69	Mar. 26	40.34
June 28	40.33	July 25	39.80	Mar. 15, 1948	40.26
Sept. 29	40.08	Feb. 18, 1942	36.96	Mar. 7, 1949	41.68

121a. Lat.  $35^{\circ}02'$ , long.  $101^{\circ}59'$ .

Mar. 26, 1947	124.68	Feb. 15, 1951	129.13	Jan. 16, 1953	132.20
Mar. 9, 1949	127.63	Jan. 17, 1952	129.87	Jan. 7, 1954	134.38

126. Lat.  $34^{\circ}57'$ , long.  $101^{\circ}59'$ . Depth 25 feet.

May 14, 1937	7.8	Mar. 19, 1941	17.17	Jan. 8, 1943	16.15
Jan. 9, 1941	17.43	July 25	17.55	Mar. 1, 1946	17.00
Jan. 11	17.38	Feb. 18, 1942	17.76	Mar. 27, 1947	16.72
Feb. 3	17.28	July 8	16.35		

## RANDALL COUNTY

127a. Lat. 35°04', long. 101°55'.

Date	Water level	Date	Water level	Date	Water level
Mar. 7, 1949	130.95	Jan. 9, 1952	133.45	Jan. 7, 1954	135.53
Jan. 15, 1951	135.61	Jan. 16, 1953	133.90		

132. Lat. 34°57', long. 102°02'. Depth 121 feet.

May 14, 1937	104.50	Feb. 18, 1942	104.00	Mar. 25, 1947	104.25
June 24	104.09	July 8	103.42	Feb. 8, 1951	111.50
Jan. 9, 1941	104.66	Jan. 8, 1943	103.40	Jan. 17, 1952	112.20
Mar. 19	103.40	Feb. 28, 1946	103.90		

137. Lat. 35°01', long. 102°01'. Depth 128 feet.

June 16, 1937	102.82	Feb. 1, 1944	115.32	Mar. 1, 1946	117.50
June 24, 1943	114.60				

137a. Lat. 35°00', long. 102°01'.

June 24, 1943	102.89	Mar. 26, 1947	104.38	Mar. 15, 1948	104.90
Mar. 1, 1946	103.40				

145a. Lat. 34°00', long. 102°03'. Depth 122 feet.

May 14, 1938	111.68	Jan. 12, 1940	111.49	Jan. 20, 1947	111.20
June 10	111.73	Mar. 14	111.58	Mar. 26	111.27
Sept. 14	111.67	July 24	111.57	Mar. 25, 1948	110.97
Oct. 20	111.65	Jan. 10, 1941	111.51	Mar. 8, 1949	111.03
Dec. 13	111.61	Mar. 19	111.47	Feb. 16, 1950	111.00
Mar. 20, 1939	111.66	Feb. 17, 1942	111.50	Jan. 18, 1951	110.98
June 28	111.62	Aug. 4	111.23	Jan. 17, 1952	110.90
Sept. 29	111.63	Feb. 28, 1946	111.20	Jan. 7, 1954	110.56

157a. Lat. 34°03', long. 102°07'.

Mar. 9, 1949	112.45	Jan. 17, 1952	113.30	Jan. 7, 1954	113.86
Jan. 18, 1951	112.99	Jan. 16, 1953	112.85		



## RANDALL COUNTY

160a. Lat. 35°01', long. 102°08'.

Date	Water level	Date	Water level	Date	Water level
May 14, 1938	102.72	Mar. 20, 1939	102.70	July 24, 1940	102.74
June 10	102.74	June 28	102.68	Jan. 10, 1941	102.79
Sept. 14	102.64	Sept. 29	102.71	Mar. 19	102.77
Oct. 20	102.63	Jan. 12, 1940	102.73		
Dec. 13	102.56	Mar. 14	102.76		

167a. Lat. 34°59', long. 102°05'.

Apr. 20, 1938	105.42	Dec. 13, 1938	105.36	Jan. 12, 1940	105.31
June 10	105.40	Mar. 20, 1939	105.39	Mar. 14	105.36
Sept. 14	105.38	June 28	105.35		
Oct. 20	105.40	Sept. 29	105.38		

172a. Lat. 34°54', long. 102°05'. Depth 137 feet.

Apr. 20, 1938	108.61	Mar. 14, 1940	108.30	July 9, 1942	108.44
Sept. 14	108.66	Aug. 5	108.33	Jan. 8, 1943	108.39
Mar. 20, 1939	108.77	Jan. 8, 1941	108.40	Feb. 28, 1946	108.25
June 28	108.30	Feb. 4	108.44	Mar. 26, 1947	108.44
Sept. 29	108.27	Mar. 19	108.38		
Jan. 12, 1940	108.25	July 25	108.52		

189a. Lat. 34°45', long. 101°59'. Depth 100 feet.

Apr. 20, 1938	95.04	Dec. 30, 1939	95.62	Mar. 7, 1949	89.18
June 11	95.13	Mar. 14, 1940	95.69	Feb. 16, 1950	91.09
Sept. 14	95.27	Nov. 7	95.85	Jan. 15, 1951	91.61
Dec. 13	95.32	Mar. 19, 1941	96.74	Jan. 9, 1952	92.18
Mar. 7, 1939	95.40	Mar. 25, 1947	91.47	Jan. 15, 1953	94.19
June 28	95.50	Mar. 15, 1948	91.77	Jan. 7, 1954	94.72

191b. Lat. 34°48', long. 101°52'. Depth 230 feet.

Sept. --, 1948	143	Jan. 15, 1951	154.57	Jan. 15, 1953	169.55
Mar. 8, 1949	147.53	Jan. 9, 1952	163.45	Jan. 7, 1954	178.05

## RANDALL COUNTY

211. Lat.  $34^{\circ}49'$ , long.  $101^{\circ}51'$ .

Date	Water level	Date	Water level	Date	Water level
Mar. 8, 1949	152.28	Jan. 15, 1951	144.10	Jan. 15, 1953	151.80
Feb. 16, 1950	142.12	Jan. 9, 1952	148.21	Jan. 7, 1954	158.39

212. Lat.  $34^{\circ}08'$ , long.  $102^{\circ}01'$ .

Mar. 30, 1949	148.35	Jan. 17, 1952	149.84	Jan. 7, 1954	154.12
Jan. 15, 1951	149.13	Jan. 16, 1953	151.35		

213. Lat.  $35^{\circ}09'$ , long.  $102^{\circ}02'$ .

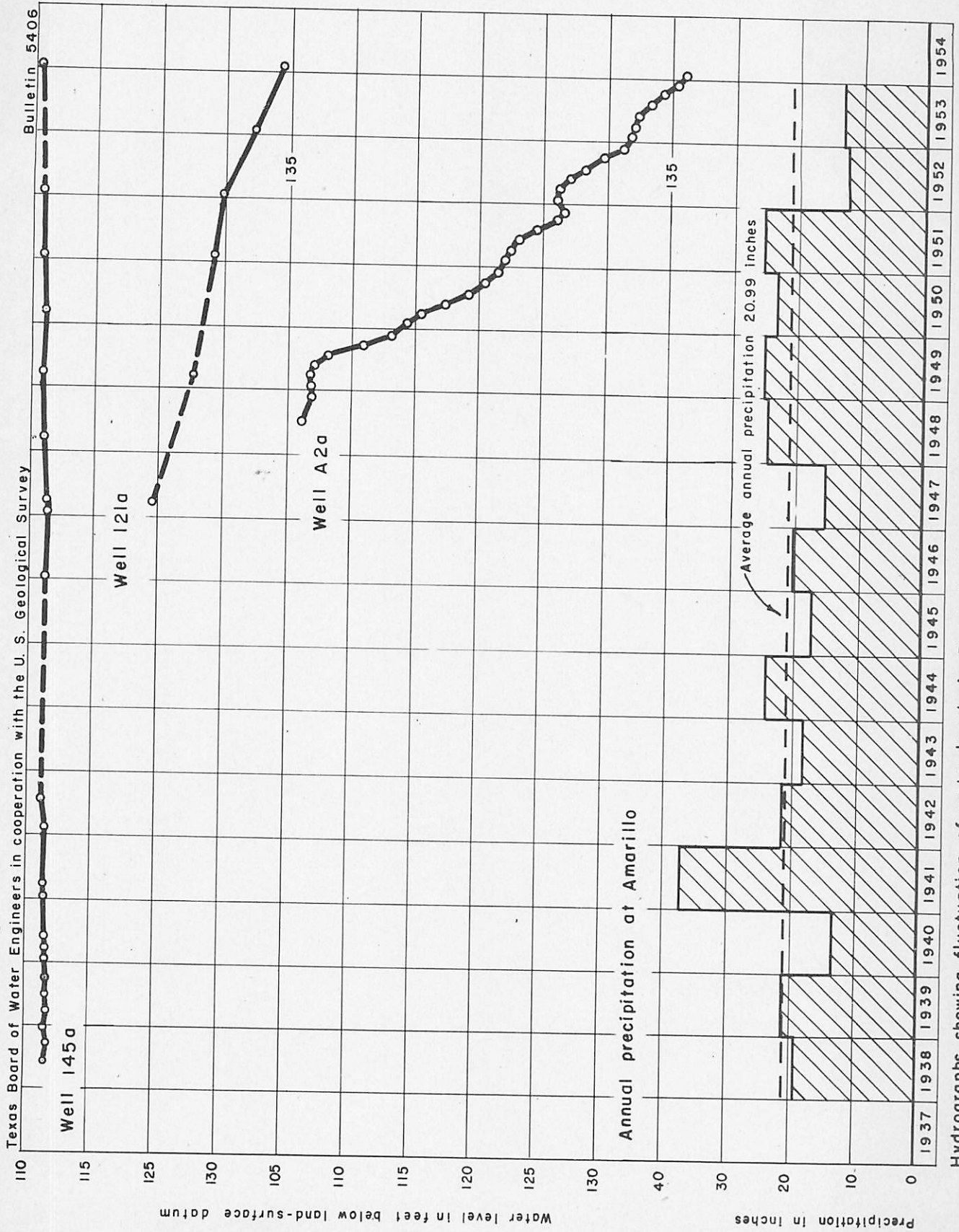
Mar. 30, 1949	166.05	Jan. 18, 1951	167.17	Jan. 16, 1953	170.35
Feb. 11, 1950	165.47	Jan. 17, 1952	168.40		

214. Lat.  $35^{\circ}09'$ , long.  $102^{\circ}05'$ .

Mar. 30, 1949	160.05	Jan. 18, 1951	158.76	Jan. 16, 1953	166.45
Feb. 11, 1950	160.63	Jan. 17, 1952	162.72	Jan. 7, 1954	168.99

215. Lat.  $35^{\circ}07'$ , long.  $102^{\circ}05'$ .

Mar. 30, 1949	129.54	Jan. 18, 1951	131.52	Jan. 16, 1953	135.15
Feb. 11, 1950	130.05	Jan. 17, 1952	133.37	Jan. 7, 1954	138.76



Hydrographs showing fluctuation of water levels in Randall County wells and the annual precipitation at Amarillo, Tex.