

TEXAS BOARD OF WATER ENGINEERS

R. M. Dixon, Chairman.  
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BULLETIN 5614

RECORDS OF WATER-LEVEL MEASUREMENTS IN FOARD  
AND WILBARGER COUNTIES, TEXAS

1936 TO JANUARY 1956

Compiled by

C. R. Follett, Engineer

Texas Board of Water Engineers

From records of the Texas Board of Water Engineers,  
and the  
Geological Survey, United States Department of the Interior

August 1956



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INTRODUCTION

The Texas Board of Water Engineers is charged with making independently, or in cooperation with other state or 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 the principal reservoirs of the state through an observation well program financed cooperatively by the Texas Board of Water Engineers and the United States Geological Survey.

Water levels in some observation wells are published annually in Water Supply Papers of the Geological Survey. County water-level reports are published periodically by the Texas Board of Water Engineers and include recorded water levels in selected observation wells. This bulletin contains measurements of the depth to water in feet below land-surface datum in 35 wells in Foard County and 76 wells in Wilbarger County. These records cover the period from 1936 to January 1956.

An inventory of wells in Foard County was made and published in 1936. In 1941 an intensive investigation was made, and the results published, of the water resources available near Margaret. An investigation of the water resources available southwest of Vernon was made in cooperation with the City of Vernon in 1943 and the results published in 1944. In 1952 an investigation of the water resources available in the Odell sand hill area was made in 1952 and published as Bulletin 5301. All of the above publications were published by the Texas Board of Water Engineers in cooperation with the Geological Survey.

Water levels are reported in feet below land-surface datum. The accompanying maps show the location of the observation wells. Well numbers on the map correspond to those in the table of measurements. Hydrographs showing the fluctuation of water levels in wells in Foard County are shown on page 12 and in Wilbarger County on pages 28, 29 and 30. The annual precipitation at Crowell and Vernon is also shown on the hydrographs. Records of wells, geologic data and discussion of ground water conditions are in the included list of publications.

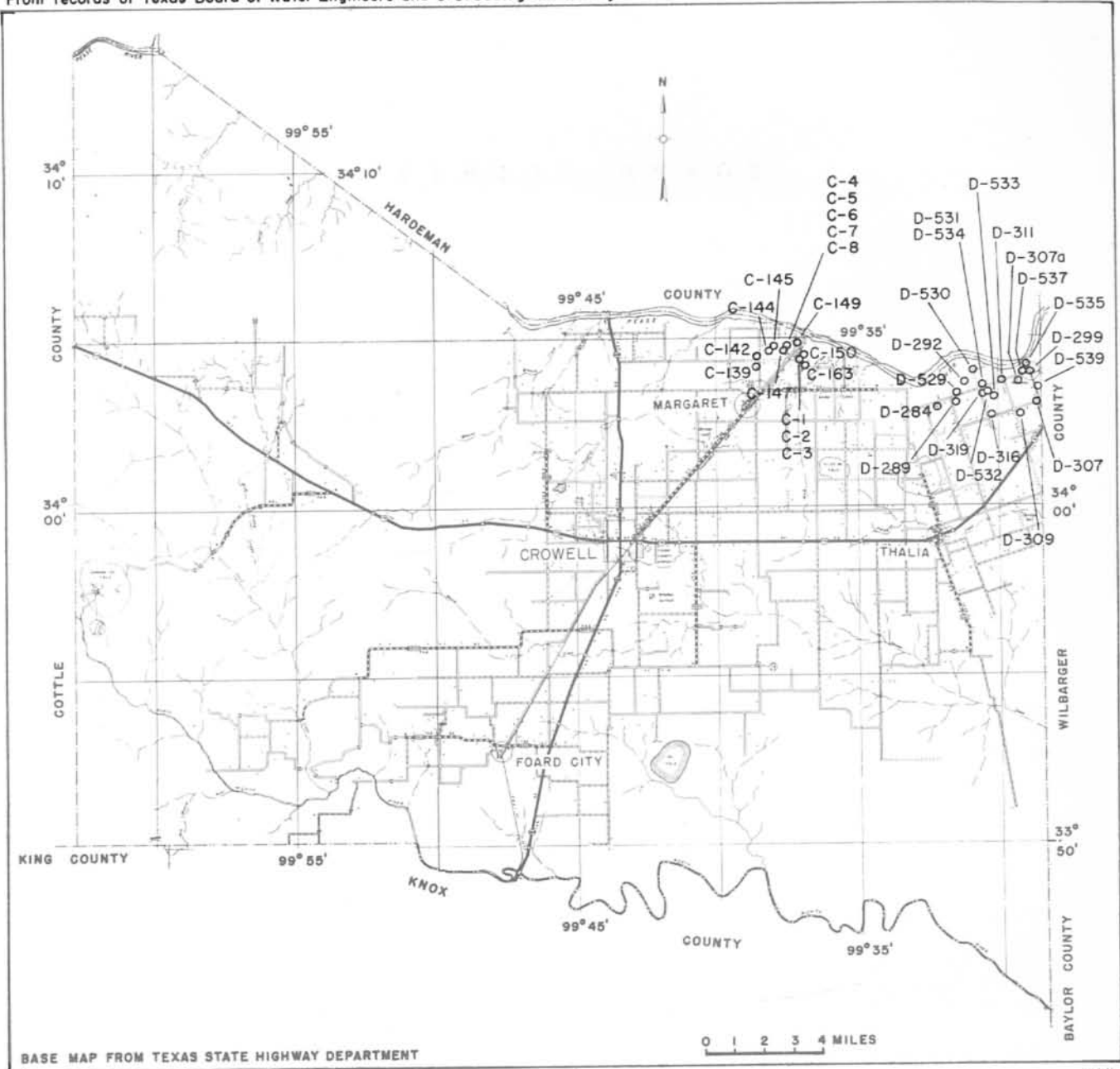
## LIST OF PUBLICATIONS

- FOLLETT, C. R., SUNDSTROM, R. W., and WHITE, W. N., 1944, Ground water resources in the vicinity of Vernon, Texas: Texas Board of Water Engineers.\*
- FOLLETT, C. R., 1941, Memorandum on irrigation wells near Rayland, (Foard County) Texas. In open file.
- GEORGE, W. O., and JOHNSON, C. E., 1941, Memorandum on ground-water resources in the vicinity of Crowell, (Foard County) Texas: Texas Board of Water Engineers.
- GEORGE, W. O., 1945, Memorandum on the Margaret well field, Crowell (Foard County) Texas. In open file.
- GORDON, C. H., 1913, Geology and underground waters of the Wichita region, north-central Texas: U. S. Geol. Survey Water-Supply Paper 317.\*
- HUGGINS, L. P., 1936, Records of wells, drillers' logs, water analyses and map showing locations of wells, Foard County, Texas: Texas Board of Water Engineers.
- SUNDSTROM, R. W., BROADHURST, W. L., and DWYER, B. C., 1947, Public water supplies in central and north-central Texas: Texas Board of Water Engineers.\* Also published by the U. S. Geological Survey as Water Supply Paper 1069, 1949.
- SUNDSTROM, R. W., 1945, Memorandum to the Texas Board of Water Engineers regarding the new municipal water supply at Crowell, Texas. In open file.
- WILLIS, G. W., and KNOWLES, D. B., 1953, Ground-water resources of the Odell sand hills, Wilbarger County, Texas: Texas Board of Water Engineers, Bulletin 5301.

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\*Out of print. Copies available for references in some public libraries and at the Austin offices of the Texas Board of Water Engineers and the U. S. Geological Survey.

FOARD COUNTY



OBSERVATION WELLS IN FOARD COUNTY, TEX.  
JANUARY 1956

BKW



## WATER-LEVEL MEASUREMENTS IN FOARD COUNTY, TEXAS

C-1. City of Crowell well 1. Lat.  $34^{\circ}04'$ , long.  $98^{\circ}37'$ . Depth 29 feet, diameter 12 inches, gravel walled well.

Date	Water level	Date	Water level	Date	Water level
July 2, 1944	13.25	Jan. 7, 1953	c 19.73	Jan. 6, 1956	21.86
Aug. 4	13.43	Jan. 6, 1954	c 20.96		
Feb. 26, 1951	c 17.22	Jan. 7, 1955	c 21.18		

C-2. City of Crowell well 2. Lat.  $34^{\circ}04'$ , long.  $98^{\circ}37'$ . Depth 37 feet, diameter 12 inches, gravel walled well.

July 8, 1944	14.58	Jan. 7, 1953	a 29.03	Jan. 7, 1955	a 29.2
Feb. 26, 1951	a 25.97	Jan. 5, 1954	c 22.91	Jan. 6, 1956	24.59

C-3. City of Crowell well 3. Lat.  $34^{\circ}04'$ , long.  $98^{\circ}37'$ . Depth 30 feet, diameter 12 inches, gravel walled well.

July 16, 1944	15.0	Jan. 7, 1953	c 20.67	Jan. 7, 1955	a 27.5
Feb. 26, 1951	c 18.86	Jan. 5, 1954	a 32.50	Jan. 6, 1956	23.42

C-4. City of Crowell well 4. Lat.  $38^{\circ}04'$ , long.  $98^{\circ}37'$ . Depth 28 feet, diameter 12 inches, gravel walled well.

July 23, 1944	14.5	Jan. 7, 1953	16.65	Jan. 6, 1956	c 17.27
Aug. 4	14.3	Jan. 5, 1954	c 18.23		
Feb. 26, 1951	14.77	Jan. 7, 1955	b 18.53		

C-5. City of Crowell well 5. Lat.  $38^{\circ}04'$ , long.  $98^{\circ}37'$ . Depth 28 feet, diameter 12 inches, gravel walled well.

Aug. 3, 1944	12.84	Feb. 26, 1951	14.36	Jan. 5, 1954	c 17.42
Aug. 4	14.01	Jan. 7	15.83	Jan. 7, 1955	b 19.30

C-6. City of Crowell well 6. Lat.  $38^{\circ}04'$ , long.  $98^{\circ}37'$ . Depth 25 feet, diameter 12 inches, gravel walled well.

Feb. 26, 1951	14.53	Jan. 7, 1953	16.46	Jan. 7, 1955	18.33
Feb. 11, 1952	15.21	Jan. 6, 1954	a 21.25		

## WATER-LEVEL MEASUREMENTS IN FOARD COUNTY--CONTINUED

C-7. City of Crowell well 7. Lat. 38°04', long. 98°37'.

Date	Water level	Date	Water level	Date	Water level
Jan. 5, 1954	20.89	Jan. 7, 1955	20.94	Jan. 6, 1956	20.00

C-8. City of Crowell well 8. Lat. 38°04', long. 98°37'. Depth 40 feet, diameter 22 inches.

Jan. 5, 1954	18.85	Jan. 7, 1955	18.82	Jan. 6, 1956	17.98
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C-139. O. E. Haseloff. Lat. 34°04', long. 98°38'. Depth 46 feet, diameter 36 inches, dug well. Land-surface datum is 1,354.7 feet above msl.

Apr. 20, 1936	11.0	Feb. 16, 1941	12.41	Mar. 12, 1941	7.82
Aug. 27, 1940	13.82	Feb. 28	9.64	Apr. 10	9.63
Jan. 7, 1941	12.5	Mar. 8	9.40		
Feb. 7	12.4	Mar. 11	9.62		

C-142. I. W. Middlebrook. Lat. 34°04', long. 98°38'. Depth 26 feet, diameter 36 inches, dug well. Land-surface datum is 1,367.5 feet above msl.

Apr. 20, 1936	20.5	Feb. 7, 1941	21.13	Mar. 11, 1941	21.25
Jan. 7, 1941	a 21.2	Feb. 16	21.14	Mar. 12	21.72
Jan. 8	19.12	Feb. 28	21.98	Apr. 10	21.13
Jan. 15	19.11	Mar. 8	21.14		

C-144. C. H. White. Lat. 34°04', long. 98°38'. Depth 23 feet, diameter 36 inches, dug well. Land-surface datum is 1,335.2 feet above msl.

Apr. 20, 1936	17.2	Feb. 16, 1941	19.85	Mar. 12, 1941	20.33
Jan. 7, 1941	16.35	Feb. 28	20.25	Apr. 10	20.21
Jan. 8	17.11	Mar. 8	20.30		
Feb. 7	19.95	Mar. 11	19.71		

## WATER-LEVEL MEASUREMENTS IN FOARD COUNTY--CONTINUED

C-145. W. T. Dunn. Lat.  $34^{\circ}04'$ , long.  $98^{\circ}37'$ . Depth 26 feet, diameter 36 inches, dug well. Land-surface datum is 1,329.4 feet above msl.

Date	Water level	Date	Water level	Date	Water level
Apr. 20, 1936	21.0	Mar. 5, 1941	21.44	Apr. 1, 1941	21.55
Feb. 7, 1941	21.5	Mar. 8	21.48	Apr. 10	21.52
Feb. 16	21.3	Mar. 11	21.47	June 3	18.29
Feb. 28	21.49	Mar. 12	21.51	Feb. 26, 1951	17.37

C-147. W. O. Dunn. Lat.  $34^{\circ}04'$ , long.  $98^{\circ}37'$ . Depth 23 feet, diameter 36 inches, dug well. Land-surface datum is 1,333.4 feet above msl.

Apr. 20, 1936	19.0	Feb. 16, 1941	18.19	Mar. 12, 1941	18.32
Jan. 7, 1941	18.18	Feb. 28	18.28	Apr. 1	18.10
Jan. 15	18.19	Mar. 8	18.38	Apr. 10	18.12
Feb. 7	18.19	Mar. 11	18.46	June 4	8.28

C-149. W. T. Dunn. Lat.  $34^{\circ}04'$ , long.  $98^{\circ}37'$ . Depth 30 feet, diameter 36 inches, dug well. Land-surface datum is 1,319.8 feet above msl.

Apr. 20, 1936	19.0	Feb. 16, 1941	19.25	Aug. 11, 1941	19.50
Aug. 26, 1940	19.64	Feb. 28	19.33	Aug. 12	19.32
Feb. 7, 1941	19.24	Mar. 8	19.32		

C-150. W. A. Dunn. Lat.  $34^{\circ}04'$ , long.  $98^{\circ}36'$ . Depth 24 feet, diameter 36 inches, dug well. Land-surface datum is 1,324.0 feet above msl.

Apr. 20, 1936	18.7	Feb. 16, 1941	15.66	Mar. 12, 1941	15.63
Jan. 7, 1941	14.3	Feb. 28	15.70	Apr. 10	15.66
Jan. 17	14.29	Mar. 8	a 16.00	June 3	14.28
Feb. 4	15.64	Mar. 8	a 16.01	Feb. 26, 1951	16.09
Feb. 7	15.66	Mar. 11	15.70		

## WATER-LEVEL MEASUREMENTS IN FOARD COUNTY--CONTINUED

C-163. Joe E. Orr. Lat.  $34^{\circ}04'$ , long.  $98^{\circ}36'$ . Depth 21 feet, diameter 36 inches, dug well. Land-surface datum is 1,330.9 feet above msl.

Date	Water level	Date	Water level	Date	Water level
Apr. 20, 1936	17.0	Jan. 17, 1941	17.33	Feb. 28, 1941	17.31
Aug. 26, 1940	16.78	Feb. 7	17.11	Mar. 12	17.34
Jan. 7, 1941	17.4	Feb. 16	17.13	Apr. 10	17.20

D-284. C. T. Smith. Lat.  $34^{\circ}02'$ , long.  $98^{\circ}32'$ . Depth 19 feet, diameter 48 inches, dug well.

May 5, 1936	13.7	Apr. 10, 1941	12.16	Oct. 25, 1943	10.70
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D-289. W. R. Moore. Lat.  $34^{\circ}03'$ , long.  $98^{\circ}31'$ . Depth 21 feet, diameter 36 inches, dug well.

May 5, 1936	14.0	Apr. 10, 1941	14.02	Oct. 25, 1943	12.49
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D-292. S. W. McLarty. Lat.  $34^{\circ}03'$ , long.  $98^{\circ}31'$ . Depth 42 feet, diameter 15 inches, casing slotted below 22 feet.

May --, 1936	15	Feb. 25, 1951	15.61	Jan. 7, 1955	19.40
Apr. 10, 1941	18.05	Feb. 10, 1952	15.00	Jan. 6, 1956	17.77
Oct. 25, 1943	13.05	Jan. 9, 1953	16.94		

D-299. Barney Martin. Lat.  $34^{\circ}03'$ , long.  $98^{\circ}29'$ . Depth 37 feet, diameter 48 inches, dug well.

May 5, 1936	19.0	Feb. 10, 1952	19.21	Jan. 7, 1955	20.53
Apr. 10, 1941	18.15	Jan. 9, 1953	19.72	Jan. 6, 1956	19.30
Feb. 26, 1951	18.93	Jan. 7, 1954	19.90		

## WATER-LEVEL MEASUREMENTS IN FOARD COUNTY--CONTINUED

D-307. T. F. Lambert, Jr. Lat.  $34^{\circ}03'$ , long.  $98^{\circ}28'$ . Depth 23 feet, diameter 48 inches, dug well.

Date	Water level	Date	Water level	Date	Water level
May 6, 1936	15.0	Feb. 26, 1951	13.51	Jan. 7, 1954	17.83
Apr. 10, 1941	13.25	Feb. 10, 1952	15.31	Jan. 7, 1955	18.34
Oct. 25, 1943	11.59	Jan. 9, 1953	16.90	Jan. 6, 1956	17.53

D-307A. L. A. Kieschnick. Lat.  $34^{\circ}03'$ , long.  $98^{\circ}29'$ . Depth 46 feet, diameter 16 inches.

Jan. 7, 1955	19.62	Jan. 6, 1956	18.96
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D-309. Ed Jokel. Lat.  $34^{\circ}02'$ , long.  $98^{\circ}29'$ . Depth 18 feet, diameter 36 inches, dug well.

May 6, 1936	13.5	Apr. 11, 1941	13.59	Oct. 25, 1943	10.45
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D-311. A. H. Martin. Lat.  $34^{\circ}03'$ , long.  $98^{\circ}29'$ . Depth 19 feet, diameter 48 inches, dug well.

May 5, 1936	13.5	Feb. 25, 1951	14.93	Jan. 7, 1954	15.61
Apr. 11, 1941	12.58	Feb. 10, 1952	13.18	Jan. 7, 1955	16.00
Oct. 26, 1943	13.74	Jan. 9, 1953	15.00	Jan. 6, 1956	15.26

D-316. Alex Streit. Lat.  $34^{\circ}02'$ , long.  $98^{\circ}30'$ . Depth 17 feet, diameter 36 inches, dug well.

May 5, 1936	10.5	Oct. 24, 1943	11.05	Feb. 26, 1951	11.22
Apr. 11	11.07				

## WATER-LEVEL MEASUREMENTS IN FOARD COUNTY--CONTINUED

D-319. Glen Martin. Lat.  $34^{\circ}03'$ , long.  $98^{\circ}30'$ . Depth 21 feet, diameter 36 inches, dug well.

Date	Water level	Date	Water level	Date	Water level
Mar. --, 1936	18.1	Feb. 25, 1951	15.17	Jan. 7, 1954	18.80
Apr. 10, 1941	15.24	Feb. 10, 1952	15.12	Jan. 7, 1955	19.13
Oct. 26, 1943	13.62	Jan. 9, 1953	17.30	Jan. 6, 1956	17.96

D-529. S. W. McLarty. Lat.  $29^{\circ}03'$ , long.  $98^{\circ}31'$ . Depth 44 feet, diameter 12 inches.

Apr. 7, 1941	15.05	Oct. 25, 1943	11.20
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D-530. R. G. Whitten. Lat.  $34^{\circ}04'$ , long.  $98^{\circ}30'$ . Depth 26 feet, diameter 52 inches, dug well.

Apr. 10, 1941	18.10	Feb. 10, 1952	18.65	Jan. 7, 1955	19.64
Oct. 26, 1943	16.38	Jan. 9, 1953	19.29	Jan. 6, 1956	17.68
Feb. 5, 1951	18.58	Jan. 7, 1954	19.78		

D-531. A. H. Martin. Lat.  $28^{\circ}03'$ , long.  $98^{\circ}30'$ . Depth 28 feet, diameter 52 inches, dug well.

Apr. 10, 1941	15.85	Feb. 10, 1952	16.70	Jan. 7, 1955	20.10
Oct. 26, 1943	14.75	Jan. 9, 1953	18.30	Jan. 6, 1956	19.09
Feb. 25, 1951	16.32	Jan. 7, 1954	19.46		

D-532. Tom Martin. Lat.  $34^{\circ}03'$ , long.  $98^{\circ}30'$ . Depth 36 feet, diameter 52 to 12 inches, dug and drilled well.

Apr. 10, 1941	15.86	Feb. 10, 1952	16.50	Jan. 6, 1956	18.80
Oct. 26, 1943	14.77	Jan. 9, 1953	18.14		
Feb. 25, 1951	15.87	Jan. 7, 1955	19.85		

## WATER-LEVEL MEASUREMENTS IN FOARD COUNTY--CONTINUED

D-533. Willie Karcher. Lat.  $34^{\circ}03'$ , long.  $98^{\circ}30'$ . Depth 34 feet, diameter 52 to 36 inches, dug well.

Date	Water level	Date	Water level	Date	Water level
Apr. 10, 1941	14.42	Feb. 10, 1952	15.55	Jan. 7, 1955	19.49
Oct. 26, 1943	12.68	Jan. 9, 1953	17.74	Jan. 6, 1956	18.61
Feb. 25, 1951	15.05	Jan. 7, 1954	18.85		

D-534. A. H. Martin. Lat.  $34^{\circ}03'$ , long.  $98^{\circ}30'$ . Depth 24 feet, diameter 48 to 18 inches, dug well.

Apr. 10, 1941	12.61	Oct. 26, 1943	12.57
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D-535. Barney Martin. Lat.  $34^{\circ}04'$ , long.  $98^{\circ}29'$ . Depth 20 feet, diameter 85 inches, dug well.

Apr. 10, 1941	2.19	Oct. 26, 1943	1.99	Feb. 26, 1951	2.15
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D-537. Barney Martin. Lat.  $34^{\circ}03'$ , long.  $98^{\circ}29'$ . Depth 41 feet, diameter 52 inches, dug well.

Apr. 10, 1941	20.87	Feb. 11, 1952	21.38	Jan. 7, 1955	22.37
Oct. 26, 1943	20.09	Jan. 9, 1953	21.83	Jan. 6, 1956	21.66
Feb. 26, 1951	21.25	Jan. 7, 1954	22.14		

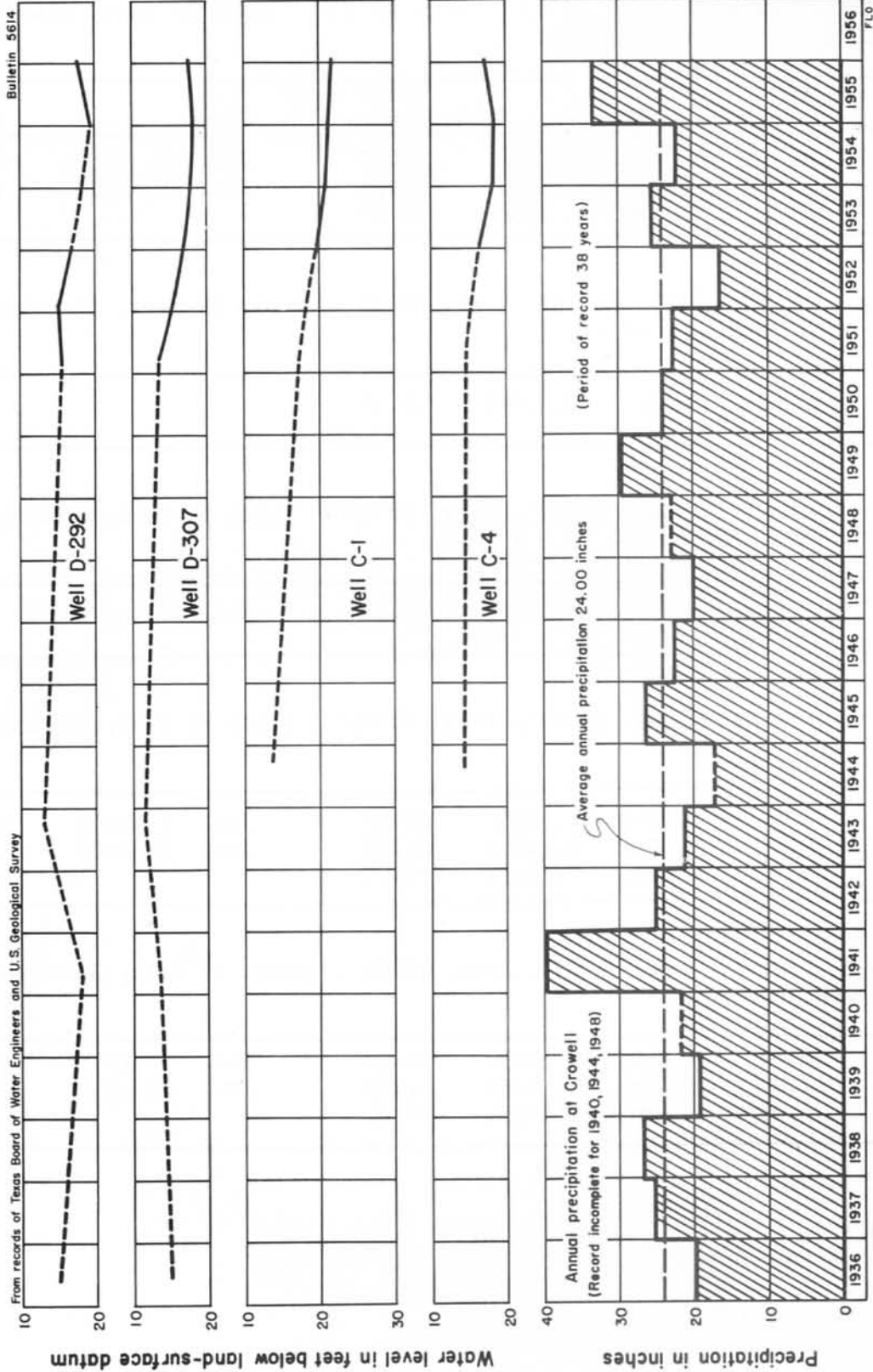
D-539. T. E. Lawson. Lat.  $34^{\circ}03'$ , long.  $98^{\circ}28'$ . Depth 27 feet, diameter 48 inches, dug well.

Oct. 9, 1943	16.64	Feb. 10, 1952	21.28	Jan. 7, 1955	22.66
Oct. 26	16.82	Jan. 9, 1953	21.85	Jan. 6, 1956	22.17
Feb. 26, 1951	21.09	Jan. 7, 1954	22.61		

a pumping

b pumped recently

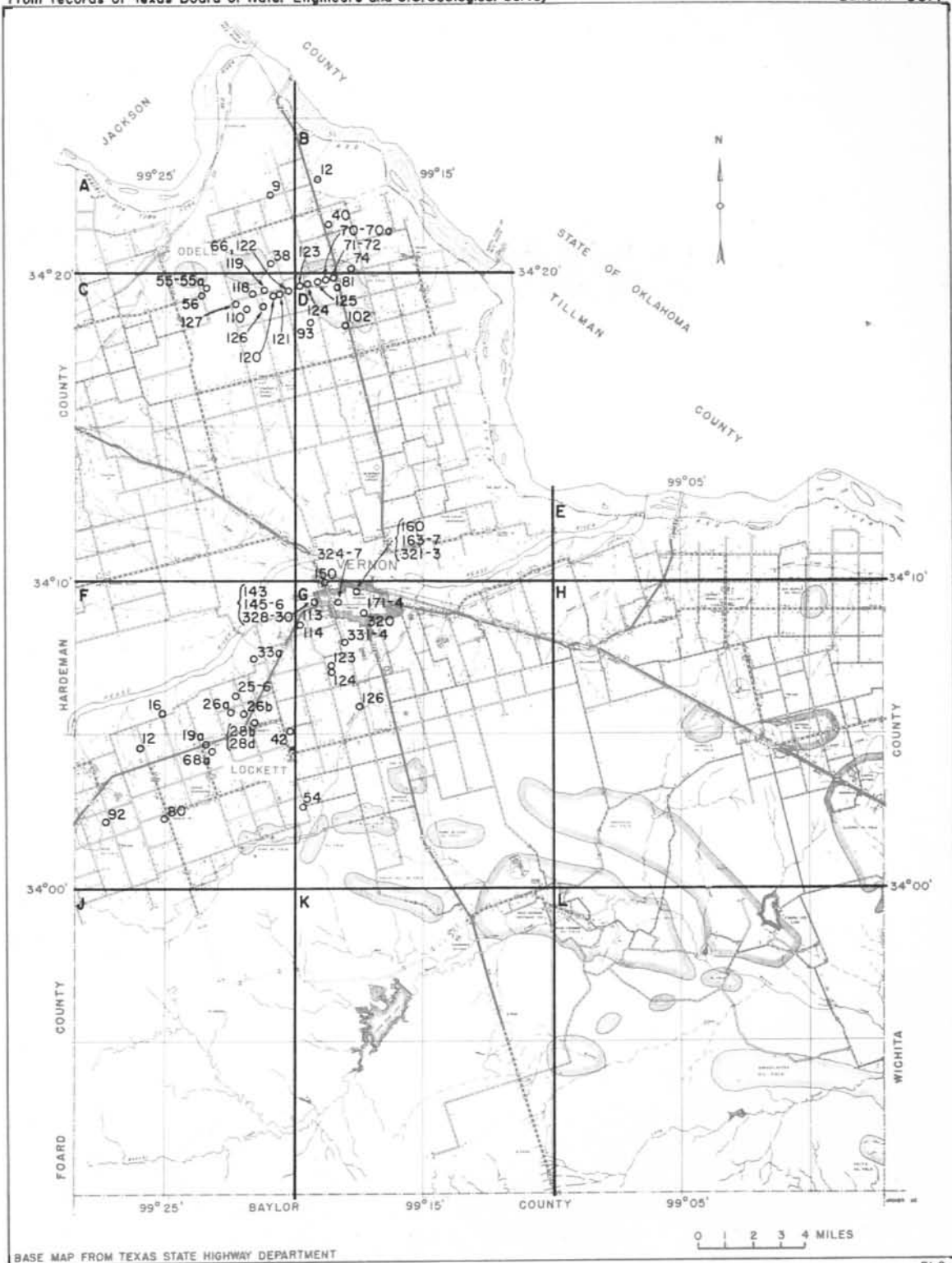
c nearby well pumping



Hydrographs of water levels in wells, Foard County, and annual precipitation at Crowell, Texas



W I L B A R G E R   C O U N T Y



OBSERVATION WELLS IN WILBARGER COUNTY, TEX.  
 JANUARY 1956

## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY, TEXAS

A-9. Elwin Bingham. Lat.  $34^{\circ}22'$ , long.  $99^{\circ}20'$ . Depth 112 feet, diameter 7 inches, cased to 112 feet.

Date	Water level	Date	Water level	Date	Water level
Feb. 2, 1952	24.2	Jan. 7, 1954	26.85	Jan. 7, 1956	24.85
Jan. 8, 1953	25.65	Jan. 8, 1955	26.32		

A-38. I. W. Boyd. Lat.  $34^{\circ}20'$ , long.  $99^{\circ}20'$ . Depth 33 feet, diameter 8 inches.

July 19, 1951	19.45	Jan. 8, 1953	23.03	Jan. 8, 1955	23.29
Feb. 1, 1952	20.54	Jan. 7, 1954	23.22	Jan. 7, 1956	22.07

B-12. Mrs. Jewel Rage. Lat.  $34^{\circ}23'$ , long.  $99^{\circ}14'$ . Depth 113 feet, diameter 6 inches, cased to 113 feet.

Feb. 1, 1952	28.99	Jan. 7, 1954	32.25	Jan. 7, 1956	30.30
Jan. 8, 1953	30.92	Jan. 8, 1955	31.35		

B-40. Cleve Hamilton. Lat.  $34^{\circ}21'$ , long.  $99^{\circ}18'$ . Depth 25 feet, diameter 2 inches.

Feb. 1, 1952	16.88	Jan. 7, 1954	20.95	Jan. 7, 1956	18.24
Jan. 8, 1953	19.27	Jan. 8, 1955	19.80		

B-74. R. H. Newsom. Lat.  $34^{\circ}20'$ , long.  $99^{\circ}17'$ . Depth 86 feet, diameter 8 inches, cased to bottom.

Aug. 8, 1951	30.7	Jan. 8, 1953	29.48	Jan. 8, 1955	30.88
Feb. 1, 1952	28.51	Jan. 7, 1954	31.62	Jan. 7, 1956	30.03

C-55. L. E. Key. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}23'$ . Depth 65 feet, diameter 24 to 16 inches, cased to bottom, casing slotted at 20-65 feet.

Feb. 27, 1951	18.33	Feb. 9, 1952	19.99	Jan. 7, 1954	23.06
July 18	18.83	Jan. 8, 1953	21.78	Jan. 8, 1955	23.10

## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY--CONTINUED

C-55a. L. E. Key. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}23'$ . Depth 70 feet, diameter 16 inches, cased to bottom, casing slotted below 20 feet.

Date	Water level	Date	Water level	Date	Water level
Jan. 8, 1953	21.65	Jan. 8, 1955	23.57	Jan. 7, 1956	21.95
Jan. 7, 1954	23.02				

C-56. L. E. Key. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}23'$ . Depth 59 feet, diameter 6 inches.

Feb. 27, 1951	12.20	Jan. 8, 1953	15.45	Jan. 8, 1955	16.97
July 18	12.52	Jan. 7, 1954	16.60		

C-66. G. F. Condon. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}20'$ . Depth 95 feet, diameter 6 inches, cased to 95 feet.

July 19, 1951	10.70	Jan. 8, 1953	16.91	Jan. 8, 1956	19.28
Feb. 2, 1952	12.94	Jan. 6, 1954	16.85		

C-110. City of Vernon, Odell 1. Lat.  $34^{\circ}18'$ , long.  $99^{\circ}22'$ . Depth 95 feet, diameter 10 inches, cased to bottom, screen at 55-95 feet.

Jan. 6, 1954	24.68	Jan. 8, 1956	25.95	Jan. 9, 1956	26.00
Jan. 8, 1955	26.63				

C-118. City of Vernon, Odell 2. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}21'$ . Depth 83 feet, diameter 10 inches, cased to bottom screen at 43-83 feet.

Jan. 6, 1954	17.52	Jan. 8, 1955	20.26	Jan. 9, 1956	b 21.00
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C-119. City of Vernon, Odell 3. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}21'$ . Depth 90 feet, diameter 10 inches, cased to bottom screen at 50-90 feet.

Jan. 6, 1954	15.82	Jan. 8, 1956	c 19.27	Jan. 9, 1956	18.77
Jan. 8, 1955	18.63				

## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY--CONTINUED

C-120. City of Vernon, Odell 4. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}20'$ . Depth 90 feet, diameter 10 inches, cased to bottom, screen at 50-90 feet.

Date	Water level	Date	Water level	Date	Water level
Jan. 6, 1954	13.76	Jan. 8, 1956	16.10	Jan. 9, 1956	b 16.34

C-121. City of Vernon, Odell 5. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}20'$ . Depth 90 feet, diameter 10 inches, cased to bottom, screen at 50-90 feet.

Jan. 6, 1954	15.55	Jan. 8, 1956	18.95	Jan. 9, 1956	18.93
Jan. 8, 1955	18.84				

C-122. City of Vernon, Odell 6. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}20'$ . Depth 85 feet, diameter 10 inches, cased to bottom, screen at 40-85 feet.

Jan. 6, 1954	9.78	Jan. 8, 1956	11.23	Jan. 9, 1956	11.12
Jan. 8, 1955	12.43				

C-126. City of Vernon, Odell 10. Lat.  $34^{\circ}18'$ , long.  $99^{\circ}21'$ . Depth 98 feet, diameter 10 inches, cased to bottom, screen at 43-98 feet.

Jan. 6, 1954	15.15	Jan. 8, 1956	17.32	Jan. 9, 1956	17.37
Jan. 8, 1955	17.94				

C-127. City of Vernon, Odell 11. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}22'$ . Depth 105 feet, diameter 10 inches, cased to bottom, screen at 45-105 feet.

Jan. 6, 1954	31.56	Jan. 8, 1956	32.41	Jan. 9, 1956	32.48
Jan. 8, 1955	33.21				

D-70. City of Vernon, McCaleb 3. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}18'$ . Depth 120 feet, diameter 6 inches.

Feb. 1, 1952	42.14	Jan. 8, 1956	46.99	Jan. 9, 1956	47.02
Jan. 8, 1953	43.74				

## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY--CONTINUED

D-70a. City of Vernon. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}18'$ . Diameter 6 inches.

Date	Water level	Date	Water level	Date	Water level
Jan. 8, 1953	31.05	Jan. 8, 1956	32.09	Jan. 9, 1956	32.10
Jan. 7, 1955	33.29				

D-71. City of Vernon, McCaleb 4. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}18'$ . Depth 103 feet, diameter 6 inches.

Jan. 31, 1952	27.48	Feb. 3, 1952	27.28	Jan. 7, 1955	24.83
Feb. 1	27.19	Feb. 8	b 27.79	Jan. 8, 1956	25.22
Feb. 2	27.27	Jan. 8, 1953	23.11		

D-72. City of Vernon, McCaleb 5. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}18'$ . Depth 92 feet, diameter 18 inches, cased to bottom, casing slotted at 60-90 feet.

Jan. 31, 1952	21.77	Feb. 3, 1952	21.67	Jan. 7, 1955	24.95
Feb. 1	21.77	Feb. 8	21.91	Jan. 8, 1956	26.70
Feb. 2	21.51	Jan. 8, 1953	23.14		

D-81. Dodson & Chillicothe. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}18'$ . Depth 94 feet, diameter 6 inches.

Aug. 16, 1951	40.5	Jan. 8, 1953	43.44	Jan. 8, 1955	45.17
Feb. 1, 1952	42.37	Jan. 7, 1954	44.63	Jan. 7, 1956	45.17

D-93. Anderson Estate. Lat.  $34^{\circ}18'$ , long.  $99^{\circ}19'$ . Depth 65 feet, diameter 6 inches, cased to bottom.

Feb. 2, 1952	35.56	Jan. 7, 1954	38.77	Jan. 7, 1956	40.00
Jan. 8, 1953	37.28	Jan. 8, 1955	40.44		

D-102. Anderson Estate. Lat.  $34^{\circ}18'$ , long.  $99^{\circ}18'$ . Depth 16 feet, diameter 48 inches, cased to bottom.

Aug. 16, 1951	11.84	Jan. 8, 1953	15.35	Jan. 8, 1955	15.13
Feb. 1, 1952	12.36	Jan. 7, 1954	14.34		

## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY--CONTINUED

D-123. City of Vernon, Odell 7. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}19'$ . Depth 98 feet, diameter 10 inches, cased to bottom, screen at 43-98 feet.

Date	Water level	Date	Water level	Date	Water level
Jan. 6, 1954	20.87	Jan. 8, 1956	23.66	Jan. 9, 1956	23.72
Jan. 8, 1955	24.35				

D-124. City of Vernon, Odell 8. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}19'$ . Depth 96 feet, diameter 10 inches, cased to bottom, screen at 56-96 feet.

Jan. 6, 1954	23.03	Jan. 8, 1956	b 27.73	Jan. 9, 1956	25.95
Jan. 8, 1955	25.80				

D-125. City of Vernon, Odell 9. Lat.  $34^{\circ}19'$ , long.  $99^{\circ}19'$ . Depth 107 feet, diameter 10 inches, cased to bottom, screen at 47-107 feet.

Jan. 6, 1954	32.94	Jan. 8, 1955	35.51	Jan. 9, 1956	b 36.05
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F-12. Willie Kieschnick. Lat.  $34^{\circ}04'$ , long.  $99^{\circ}25'$ . Depth 22 feet, diameter 30 inches, curbed with concrete rings.

Oct. 29, 1943	13.01	Jan. 9, 1953	18.09	Jan. 6, 1956	19.97
Feb. 26, 1951	16.21	Jan. 7, 1954	19.38		
Feb. 10, 1952	16.70	Jan. 7, 1955	20.14		

F-16. Mrs. C. W. Weaver. Lat.  $34^{\circ}05'$ , long.  $99^{\circ}25'$ . Depth 21 feet, diameter 30 inches, curbed with bricks.

1897	19	Feb. 26, 1951	12.78	Jan. 7, 1954	15.50
Feb. --, 1943	4	Feb. 10, 1952	13.45	Jan. 7, 1955	16.10
Oct. 27	10.16	Jan. 9, 1953	15.03	Jan. 6, 1956	15.84

F-19a. Lat.  $34^{\circ}04'$ , long.  $99^{\circ}23'$ . Depth 40 feet, diameter 14 inches.

Jan. 7, 1954	30.45	Jan. 7, 1955	31.02	Jan. 6, 1956	32.56
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## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY--CONTINUED

F-25. W. F. McKee. Lat.  $34^{\circ}06'$ , long.  $99^{\circ}22'$ . Depth 58 feet, diameter 7 inches.

Date	Water level	Date	Water level	Date	Water level
Oct. 29, 1943	14.83	Jan. 9, 1953	19.68	Jan. 7, 1956	19.90
Feb. 26, 1951	19.33	Jan. 7, 1954	19.81		
Feb. 10, 1952	19.08	Jan. 7, 1955	20.02		

F-26. W. F. McKee. Lat.  $34^{\circ}06'$ , long.  $99^{\circ}22'$ . Depth 24 feet, diameter 7 inches.

Oct. 29, 1943	14.69	Jan. 9, 1953	19.39	Jan. 7, 1956	19.02
Feb. 26, 1951	19.16	Jan. 7, 1954	19.67		
Feb. 10, 1952	18.88	Jan. 7, 1955	19.78		

F-26a. Lockett Seed Co. Lat.  $34^{\circ}05'$ , long.  $99^{\circ}22'$ . Depth 40 feet, diameter 16 inches.

Jan. 7, 1954	24.74	Jan. 7, 1955	24.92	Jan. 7, 1956	23.96
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F-26b. Lockett Seed Co. Lat.  $34^{\circ}05'$ , long.  $99^{\circ}22'$ .

Jan. 7, 1954	28.25	Jan. 7, 1955	28.59	Jan. 7, 1956	27.66
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F-28b. H. K. Haseloff well 1. Lat.  $34^{\circ}05'$ , long.  $99^{\circ}21'$ . Depth 35 feet, diameter 16 inches, slotted casing.

Feb. 28, 1951	14.34	Jan. 7, 1954	16.22	Jan. 7, 1956	14.73
Jan. 9, 1953	15.59	Jan. 7, 1955	17.21		

F-28d. H. K. Haseloff. Lat.  $34^{\circ}05'$ , long.  $99^{\circ}21'$ . Depth 37 feet, diameter 16 inches.

Jan. 7, 1955	19.61	Jan. 7, 1956	17.06
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## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY--CONTINUED

F-33a. Willie Kieschnick. Lat.  $34^{\circ}07'$ , long.  $99^{\circ}21'$ . Depth 47 feet, diameter 16 inches.

Date	Water level	Date	Water level	Date	Water level
Jan. 7, 1955	17.11	Jan. 7, 1956	16.37		

F-42. S. C. Davenport. Lat.  $34^{\circ}05'$ , long.  $99^{\circ}20'$ . Depth 32 feet, diameter 36 inches, curbed with bricks.

Oct. 19, 1943	10.71	Jan. 9, 1953	15.85	Jan. 7, 1956	14.53
Feb. 26, 1951	12.46	Jan. 7, 1954	17.80		
Feb. 9, 1952	13.05	Jan. 7, 1955	18.44		

F-68a. Bill Rummel. Lat.  $34^{\circ}04'$ , long.  $99^{\circ}23'$ . Depth 53 feet, diameter 14 inches.

Jan. 7, 1954	31.50	Jan. 7, 1955	32.02	Jan. 7, 1956	31.40
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F-80. E. G. Boman. Lat.  $34^{\circ}02'$ , long.  $99^{\circ}24'$ . Depth 28 feet, diameter 30 inches.

Oct. 22, 1943	8.81	Feb. 26, 1951	12.45	Feb. 10, 1952	14.95
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F-92. F. E. Nerlin. Lat.  $34^{\circ}02'$ , long.  $99^{\circ}27'$ . Depth 18 feet, diameter 30 inches, curbed with concrete rings.

Oct. 25, 1943	10.74	Feb. 10, 1952	13.20	Jan. 9, 1953	17.14
Feb. 26, 1951	10.19				

G-54. H. A. Carpenter. Lat.  $34^{\circ}02'$ , long.  $99^{\circ}19'$ . Depth 11 feet, diameter 28 inches, curbed with culvert pipe.

Oct. 20, 1943	8.08	Feb. 9, 1952	6.03	Jan. 7, 1954	8.09
Feb. 26, 1951	2.95	Jan. 9, 1953	7.90	Jan. 7, 1955	9.45

G-113. R. L. Moore, Jr. Lat.  $34^{\circ}08'$ , long.  $99^{\circ}19'$ . Depth 43 feet, diameter 30 inches, curbed with concrete rings.

Nov. 2, 1943	17.29	Jan. 9, 1953	22.76	Jan. 7, 1956	21.33
Feb. 28, 1951	22.48	Jan. 7, 1954	22.85		
Feb. 10, 1952	22.36	Jan. 7, 1955	23.14		

## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY--CONTINUED

G-114. R. L. Moore, Jr. Lat.  $34^{\circ}08'$ , long.  $99^{\circ}19'$ . Depth 38 feet, diameter 30 inches, curbed with concrete rings.

Date	Water level	Date	Water level	Date	Water level
Nov. 2, 1943	17.42	Jan. 9, 1953	22.68	Jan. 7, 1956	21.29
Feb. 28, 1951	22.53	Jan. 7, 1954 a	22.80		
Feb. 10, 1952	23.20	Jan. 7, 1955	23.10		

G-123. Frank Kaluza. Lat.  $34^{\circ}07'$ , long.  $99^{\circ}18'$ . Depth 22 feet, diameter 36 inches, curbed with culvert pipe.

Oct. 18, 1943	11.63	Jan. 9, 1953	19.57	Jan. 7, 1956	20.40
Feb. 28, 1951	18.05	Jan. 7, 1954	22.58		
Feb. 9, 1952	19.05	Jan. 7, 1955	22.47		

G-124. Frank Kaluza. Lat.  $34^{\circ}07'$ , long.  $99^{\circ}18'$ . Depth 22 feet, diameter 30 inches, curbed with concrete rings.

Oct. 18, 1943	12.00	Jan. 9, 1953	19.78	Jan. 7, 1955	21.90
Feb. 28, 1951	17.75	Jan. 7, 1954	21.90	Jan. 7, 1956	20.08

G-126. Mrs. - Schlitze. Lat.  $34^{\circ}05'$ , long.  $99^{\circ}17'$ . Depth 14 feet, diameter 29 inches, curbed with concrete rings.

Oct. 19, 1943	8.30	Jan. 9, 1953	8.56	Jan. 7, 1956	7.22
Feb. 28, 1951	5.00	Jan. 7, 1954	9.62		
Feb. 9, 1952	8.00	Jan. 7, 1955	10.61		

G-143. City of Vernon well 4-7. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}19'$ . Depth 41 feet, diameter 18 inches, casing slotted.

Nov. 12, 1943	16.98	Feb. 9, 1952	31.40	Jan. 6, 1954	29.78
Feb. 27, 1951	31.07	Jan. 7, 1953	28.51	Jan. 8, 1956	24.93

G-145. City of Vernon well 4-6. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}19'$ . Depth 42 feet, diameter 18 inches, casing slotted.

Oct. 11, 1943	18.73	Nov. 7, 1943	18.32	Jan. 6, 1954	32.36
Oct. 12	a 28.00	Feb. 9, 1952	31.29	Jan. 8, 1956	26.56
Oct. 13	b 19.29	Jan. 7, 1953	30.75		

## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY--CONTINUED

G-146. City of Vernon well 4-2. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}19'$ . Depth 41 feet, diameter 18 inches, casing slotted.

Date	Water level	Date	Water level	Date	Water level
Nov. 10, 1943	a 29.06	Feb. 9, 1952	32.50	Jan. 6, 1954	b 32.98
Nov. 10	20.47	Jan. 7, 1953	32.21	Jan. 8, 1956	27.09

G-150. City of Vernon. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}18'$ . Depth 20 feet, diameter 192 inches, curbed with concrete.

Oct. 14, 1943	3.74	Jan. 9, 1953	10.83	Jan. 8, 1956	10.00
Feb. 27, 1951	8.30	Jan. 7, 1954	12.45		
Feb. 9, 1952	8.31	Jan. 7, 1955	13.26		

G-160. City of Vernon. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}17'$ . Depth  $40^{\pm}$  feet, diameter 18 inches, casing slotted.

Feb. 27, 1951	32.92	Jan. 8, 1953	32.86	Jan. 8, 1955	32.05
Feb. 9, 1952	31.75	Jan. 6, 1954	33.25	Jan. 8, 1956	29.68

G-163. City of Vernon well 2-4. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}17'$ . Depth 42 feet, diameter 18 inches, casing slotted.

Apr. 11, 1941	27.93	Feb. 9, 1952	31.96	Jan. 8, 1956	29.00
Nov. 7, 1943	26.53	Jan. 8, 1953	33.27		
Feb. 27, 1951	33.14	Jan. 8, 1955	31.58		

G-164. City of Vernon well 2-8. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}17'$ . Depth  $40^{\pm}$  feet, diameter 18 inches, casing slotted.

Oct. 30, 1943	27.10	Feb. 9, 1952	32.16	Jan. 8, 1955	31.56
Nov. 7	26.41	Jan. 8, 1953	33.43	Jan. 8, 1956	29.03
Feb. 27, 1951	32.68	Jan. 6, 1954	34.53		

G-165. City of Vernon well 2-2. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}17'$ . Depth 44 feet, diameter 18 inches, casing slotted.

Apr. 11, 1941	27.91	Feb. 9, 1952	32.90	Jan. 8, 1956	29.27
Nov. 12, 1943	26.98	Jan. 8, 1953	34.18		
Feb. 27, 1951	33.55	Jan. 8, 1955	32.00		

## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY--CONTINUED

G-166. City of Vernon well 2-1. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}17'$ . Depth  $43^{\pm}$  feet, diameter 18 inches, casing slotted.

Date	Water level	Date	Water level	Date	Water level
Nov. 12, 1943	29.24	Feb. 9, 1952	34.94	Jan. 8, 1955	35.01
Feb. 27, 1951	36.73	Jan. 8, 1953	36.29	Jan. 8, 1956	32.83

G-167. City of Vernon well 2-7. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}17'$ . Depth  $43^{\pm}$  feet, diameter 18 inches, casing slotted.

Apr. 11, 1941	28.81	Nov. 12, 1943	25.49	Jan. 8, 1953	33.63
Oct. 14, 1943	25.73				

G-171. City of Vernon well 1-3. Lat.  $34^{\circ}08'$ , long.  $99^{\circ}17'$ . Depth  $48^{\pm}$  feet, diameter 18 inches, casing slotted.

Oct. 11, 1943	28.21	Oct. 14, 1943	28.78	Jan. 8, 1955	36.54
Oct. 12	28.10	Feb. 10, 1952	36.11	Jan. 8, 1956	33.28
Oct. 13	a 36.54	Jan. 7, 1953	35.81		

G-172. City of Vernon well 1-2. Lat.  $34^{\circ}08'$ , long.  $99^{\circ}17'$ . Depth  $48^{\pm}$  feet, diameter 18 inches, casing slotted.

Oct. 14, 1943	29.52	Feb. 10, 1952	38.91	Jan. 8, 1955	38.35
Feb. 27, 1951	38.80	Jan. 7, 1953	39.10	Jan. 8, 1956	35.28

G-173. City of Vernon well 1-5. Lat.  $34^{\circ}08'$ , long.  $99^{\circ}17'$ . Depth  $48^{\pm}$  feet, diameter 18 inches, casing slotted.

Oct. 13, 1943	28.47	Feb. 10, 1952	38.95	Jan. 8, 1955	39.52
Feb. 27, 1951	38.30	Jan. 7, 1953	39.19	Jan. 8, 1956	35.97

G-174. City of Vernon well 1-4. Lat.  $34^{\circ}08'$ , long.  $99^{\circ}17'$ . Depth 48 feet, diameter 18 inches, casing slotted.

Oct. 14, 1943	32.26	Feb. 10, 1952	39.95	Jan. 8, 1955	40.82
Feb. 27, 1951	39.30	Jan. 7, 1953	41.20	Jan. 8, 1956	37.86

## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY--CONTINUED

G-320. City of Vernon well 1-1. Lat.  $34^{\circ}08'$ , long.  $99^{\circ}17'$ . Depth 52 feet, diameter 18 inches, casing slotted.

Date	Water level	Date	Water level	Date	Water level
Feb. 27, 1951	36.55	Jan. 7, 1953	37.03	Jan. 8, 1956	34.41
Feb. 10, 1952	36.98	Jan. 8, 1955	37.62		

G-321. City of Vernon well 2-3. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}17'$ . Depth 43 feet, diameter 18 inches, casing slotted.

Feb. 27, 1951	35.21	Jan. 8, 1953	32.45	Jan. 8, 1956	30.04
Feb. 9, 1952	33.10	Jan. 8, 1955	32.61		

G-322. City of Vernon well 2-5. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}17'$ . Depth 43 feet, diameter 18 inches, casing slotted.

Feb. 27, 1951	31.00	Jan. 8, 1953	31.22	Jan. 6, 1954	31.71
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G-323. City of Vernon well 2-6. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}17'$ . Depth 44 feet, diameter 18 inches, casing slotted.

Feb. 27, 1951	31.26	Jan. 8, 1953	33.00	Jan. 8, 1956	29.24
Feb. 9, 1952	31.48	Jan. 8, 1955	31.75		

G-324. City of Vernon well 3-1. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}18'$ . Depth 41 feet, diameter 18 inches, casing slotted.

Feb. 27, 1951	24.25	Jan. 7, 1953	28.27	Jan. 6, 1954	29.74
Feb. 9, 1952	26.39				

G-325. City of Vernon well 3-3. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}18'$ .

Feb. 27, 1951	27.01	Jan. 8, 1955	29.11	Jan. 8, 1956	27.40
Jan. 6, 1954	32.42				

## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY--CONTINUED

G-326. City of Vernon well 3-4. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}18'$ . Depth 43 feet, diameter 18 inches, casing slotted.

Date	Water level	Date	Water level	Date	Water level
Feb. 27, 1951	24.99	Jan. 6, 1954	32.12	Jan. 8, 1956	25.52
Jan. 7, 1953	30.26				

G-327. City of Vernon well 3-5. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}18'$ . Depth 43 feet, diameter 18 inches, casing slotted.

Jan. 6, 1954	31.42	Jan. 8, 1956	26.10
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G-328. City of Vernon well 4-1. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}19'$ . Depth 41 feet, diameter 18 inches, casing slotted.

Feb. 9, 1952	32.92	Jan. 6, 1954	33.23	Jan. 8, 1956	27.60
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G-329. City of Vernon well 4-4. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}19'$ . Depth 41 feet, diameter 18 inches, casing slotted.

Feb. 27, 1951	30.97	Jan. 6, 1954	31.77	Jan. 8, 1955	28.57
Jan. 7, 1953	30.82				

G-330. City of Vernon well 4-5. Lat.  $34^{\circ}09'$ , long.  $99^{\circ}19'$ . Depth 42 feet, diameter 18 inches, casing slotted.

Feb. 9, 1952	29.70	Jan. 6, 1954	29.22	Jan. 8, 1956	24.36
Jan. 7, 1953	29.05				

G-331. City of Vernon well 5-1. Lat.  $34^{\circ}07'$ , long.  $99^{\circ}18'$ .

Feb. 27, 1951	29.93	Jan. 7, 1953	31.00	Jan. 8, 1956	30.71
Feb. 9, 1952	31.72	Jan. 6, 1954	33.47		

## WATER-LEVEL MEASUREMENTS IN WILBARGER COUNTY--CONTINUED

G-332. City of Vernon well 5-2. Lat.  $34^{\circ}07'$ , long.  $99^{\circ}18'$ . Depth 41 feet, diameter 18 inches, casing slotted.

Date	Water level	Date	Water level	Date	Water level
Jan. 6, 1954	34.92	Jan. 8, 1955	32.06	Jan. 8, 1956	31.56

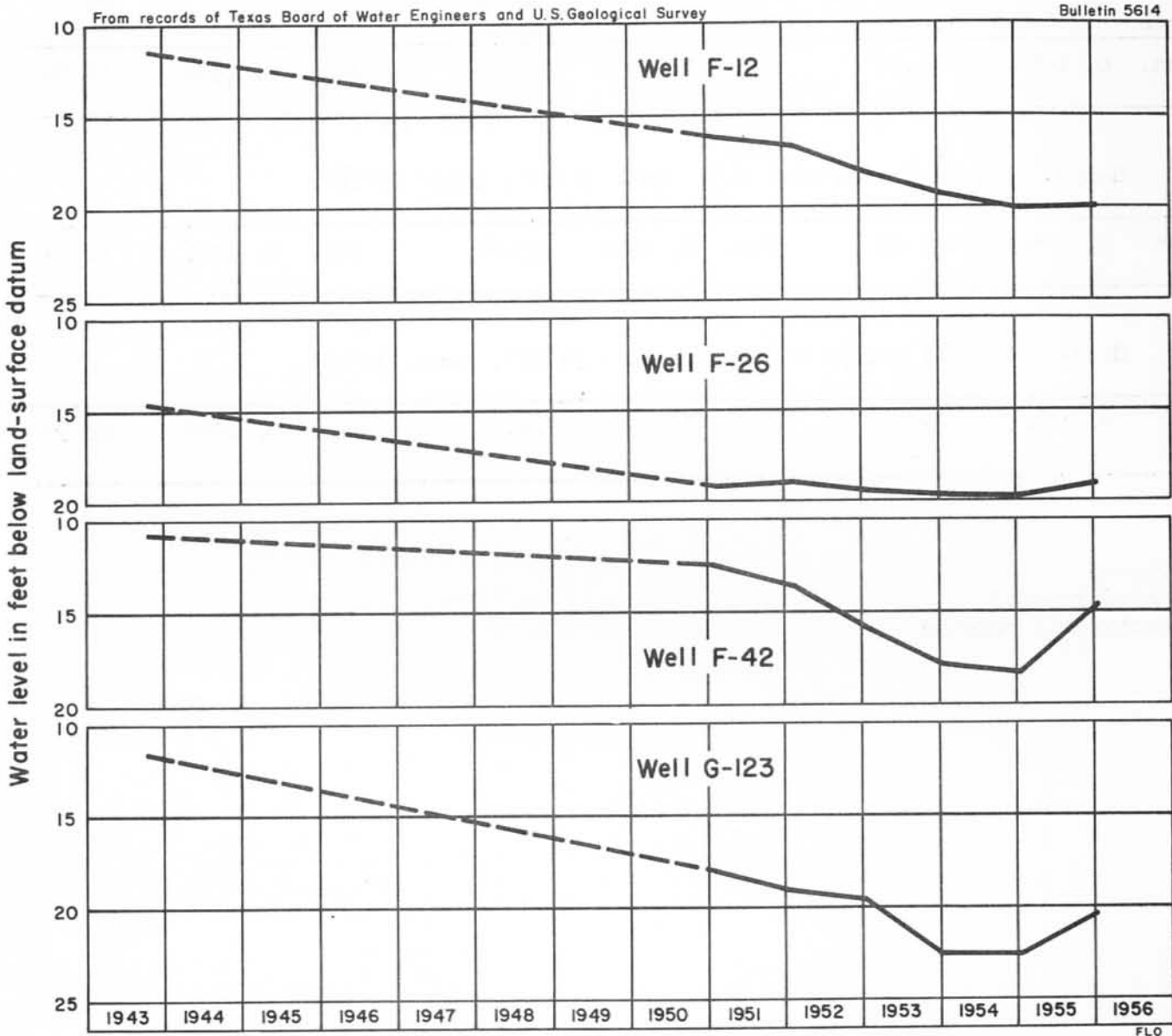
G-333. City of Vernon well 5-3. Lat.  $34^{\circ}07'$ , long.  $99^{\circ}18'$ .

Jan. 6, 1954	35.93	Jan. 8, 1955	33.44	Jan. 8, 1956	32.94
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G-334. City of Vernon well 5-8. Lat.  $34^{\circ}07'$ , long.  $99^{\circ}18'$ .

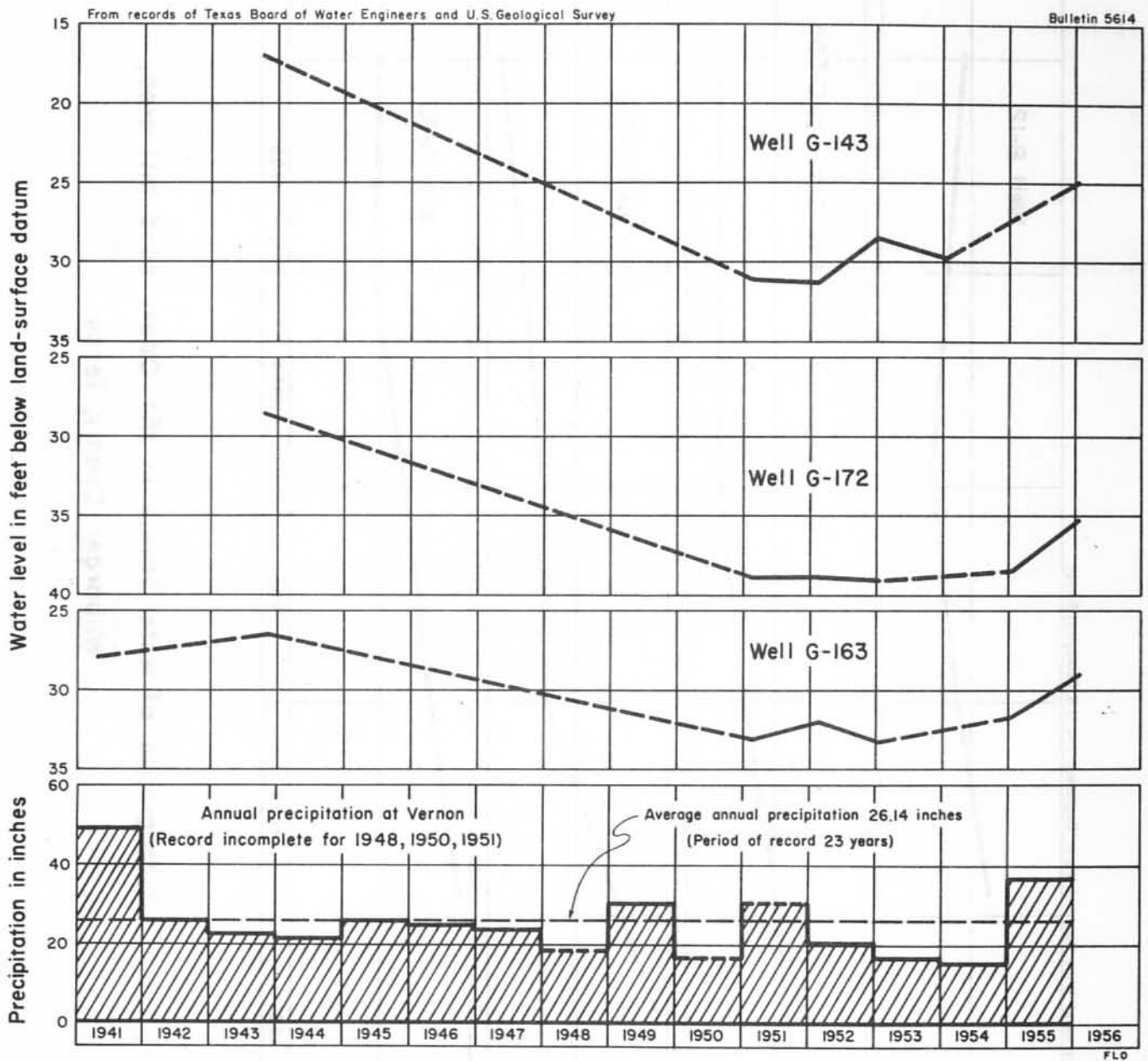
Feb. 9, 1952	22.96	Jan. 8, 1955	24.40	Jan. 8, 1956	22.50
Jan. 6, 1954	25.31				

- a pumping
- b pumped recently
- c nearby well pumping

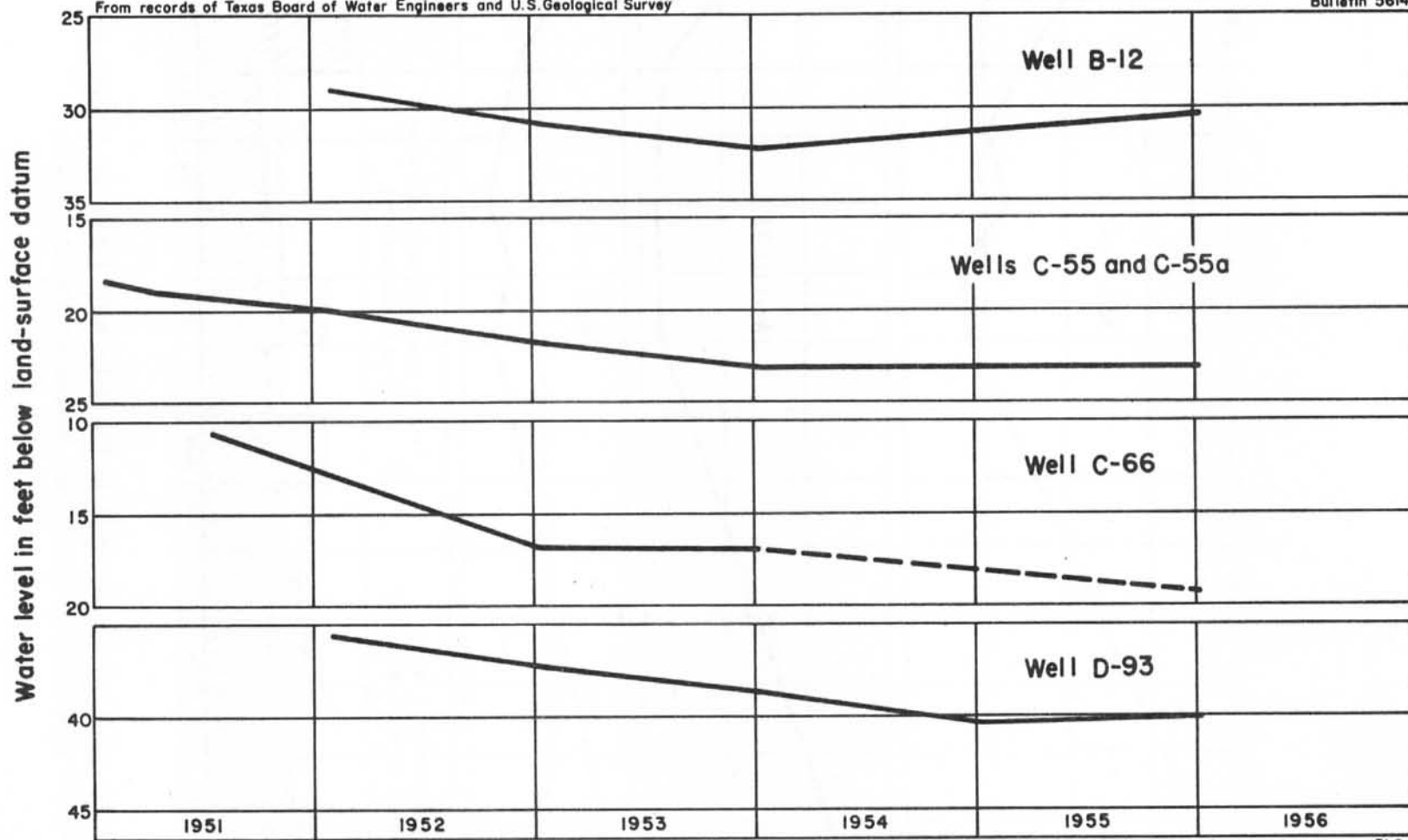


**Hydrographs of water levels in wells southwest of Vernon,  
Wilbarger County, Texas**





**Hydrographs of water levels in wells in the city well fields in Vernon and annual precipitation at Vernon, Wilbarger County, Texas**



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**Hydrographs of water levels in the Odell sand hill area,  
Wilbarger County, Texas**