TEXAS BOARD OF WATER ENGINEERS

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

BULLETIN 5902

RECORDS OF WATER-LEVEL MEASUREMENTS IN BELL,
MCLENNAN, AND SOMERVELL COUNTIES, TEXAS

1930 THROUGH 1957

Compiled by

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

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

February 1959

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RECORDS OF WATER-LEVEL MEASUREMENTS IN BELL, MCLENNAN AND SOMERVELL COUNTIES, TEXAS 1930 THROUGH 1957

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INTRODUCTION

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

This bulletin contains measurements of the depth to water in feet below or above land-surface datum in 26 wells in Bell County, 8 wells in McLennan County and 15 wells in Somervell County. The period of record covers measurements made in observation wells from 1930 through 1957.

Observation well location maps precede the corresponding table of water-level measurements for each county. Hydrographs illustrating the fluctuation of water levels in selected wells in Bell, McLennan and Somervell Counties follow the associated table of water-level measurements. Annual precipitation charts for Temple, Waco and Rainbow are combined with their respective hydrographs.

BELL COUNTY

OBSERVATION WELLS IN BELL COUNTY, TEXAS

- 5 -

WATER-LEVEL MEASUREMENTS IN BELL COUNTY, TEXAS

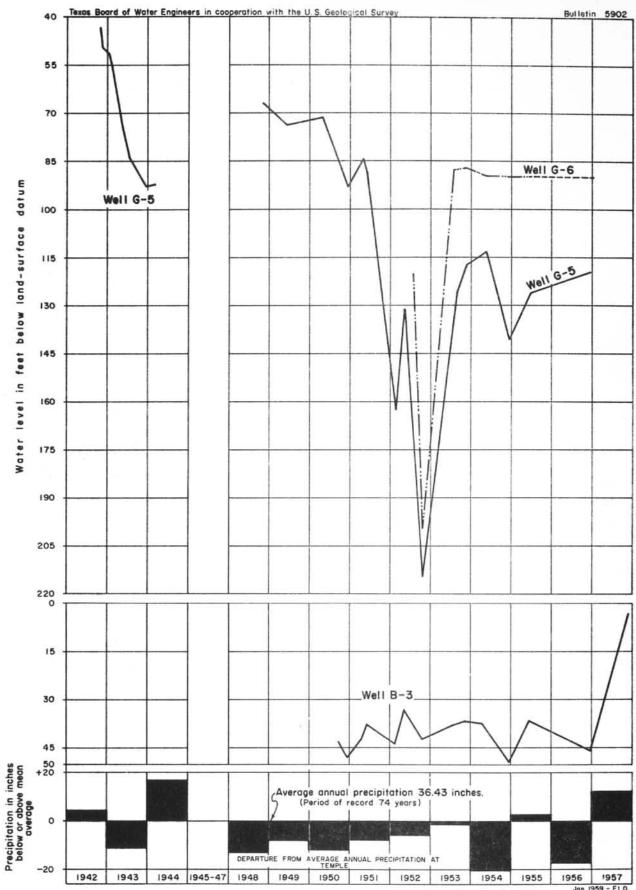
B-1. Lat. 31°17', long. 97°27'. Diameter 8 inches, depth 505 feet.

Date	Water Level	Date	Water Level	Date	Water
Sept.27, 1950 Dec. 13 Apr. 26, 1951 June 8 Feb. 19, 1952	8.56 12.73 9.32 15.11 33.68	May 8, 1952 Oct. 21 July 29, 1953 Nov. 19 May 19, 1954	12.19 15.44 46.63 17.58 35.19	Dec. 10, 1954 June 20, 1955 Dec. 12, 1956 Nov. 27, 1957	16.78 15.78 24.27 2.50
B-2. Lat	. 31°17',	long. 97°25'. D	iameter 3	O inches, depth 3	O feet.
Sept.27, 1950 Dec. 12	16.2 20.18	Apr. 25, 1951	21.14	June 8, 1951	15.61
		long. 97°25'. D	iameter 7	inches, depth	
Sept.27, 1950 Dec. 12 Apr. 25, 1951 June 8 Feb. 19, 1952 B-4 Lat.	43.27 48.00 42.63 38.34 44.00	May 8, 1952 Oct. 21 July 29, 1953 Nov. 19 May 19, 1954 Long. 97°26'. De	33.37 42.37 38.63 36.90 37.44	Dec. 10, 1954 June 20, 1955 Dec. 12, 1956 Nov. 27, 1957	43.67 29.02 38.82 3.66
Sept.27, 1950 Dec. 13	63.93 76.80	Apr. 25, 1951	70.53	June 18, 1951	106.88
B-5. Lat	. 31°15',	long. 97°26'. D	iameter 7	inches, depth 16	5 feet.
Sept.27, 1950 Dec. 13 Apr. 25, 1951 June 8 Feb. 19, 1952	65.01 78.75 34.77 8.88 78.47	May 8, 1952 Oct. 21 July 29, 1953 Nov. 19 May 19, 1954	77.95	Dec. 10, 1954 June 20, 1955 Dec. 12, 1956 Nov. 27, 1957	6.75
B-6. Lat	. 31°14',	long. 97°26'. D	iameter 8	inches, depth 54	O feet.
Sept.27, 1950 Dec. 13	21.6	June 8, 1951 May 8, 1952	69.26 84.32	Oct. 21, 1952	114.16

WATER-LEVEL MEASUREMENTS IN BELL COUNTY -- CONTINUED

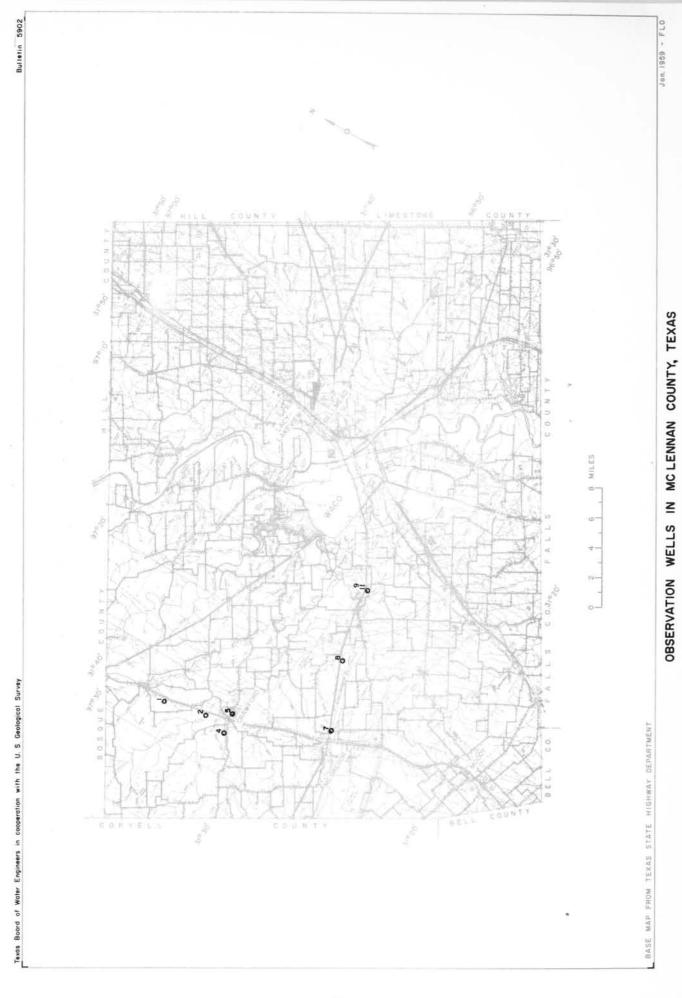
B-14. Lat. 31°10', long. 97°26'. Diameter 6 inches, depth 190 feet.

Date	Water	Date	Water	Date	Water
	Level		Level		Leve:
May 10, 19	50 102.68	May 8, 1952	81.66	Dec. 10, 1954	91.43
Dec. 12	91.35	Oct. 21	94.51	June 20, 1955	90.67
Apr. 25, 19		July 30, 1953		Dec. 12, 1956	91.08
June 8	102.15		92.80		
		Nov. 19		Nov. 27, 1957	89.43
Feb. 19, 19	52 114.00	May 19, 1954	95.43		
C-1.	Lat. 31°16',	long. 97°24'.	Diameter 7	inches, depth 27	74 feet.
Sept.27, 19	50 60.14	Oct. 21, 1952	83.66	June 20, 1955	38.40
Dec. 13	97.65			Dec. 12, 1956	
		July 29, 1953			
Apr. 25, 19		Nov. 19	44.65	Nov. 27, 1957	96.97
June 8	51.37	May 19, 1954			
Feb. 19, 19	52 106.25	Dec. 10	92.65		
C-2.	Lat. 31°15',	long. 97°24'.	Diameter 8	inches, depth 60	00 feet.
Sept.27, 19	50 6.94	Dec. 13, 1950	61.01	Feb. 20, 1952	9.13
Dec. 12	ъ 95.6	Apr. 25, 1951			
E-1.	Lat. 31°02',	long. 97°45'.			
June 7, 195	1 128.11	Feb. 20, 1952	129.35		
G-1.	Lat. 31°08',	long. 97°29'.	Diameter 6	inches, depth 65	feet.
Nov. 19, 19	52 38.14	Nov. 20, 1953	38.44	Dec. 10, 1954	38.89
July 30, 19	[요] 전	May 20, 1954			5/
		long. 97°27'.			
Nov. 10 10	-0 F9 39	Tular 20 1052	E8 80		
Nov. 19, 19	DE 20.30	July 30, 1953	90.00		
G-3.	Lat. 31°06',	long. 97°31'.	Diameter 6	inches, depth 45	50 feet.
May 9, 195	50 126.16	June 8, 1951	134.62	Oct. 22, 1952	144.0
Sept.28	129.2	Feb. 20, 1952		July 30, 1953	
Apr. 26, 19	1 13/1 ()/	May 8	140.36	Nov. 20	139.0



HYDROGRAPHS OF WATER LEVELS IN WELL G-6, WELL G-5, AND WELL B-3, BELL COUNTY, AND ANNUAL PRECIPITATION AT TEMPLE, TEXAS

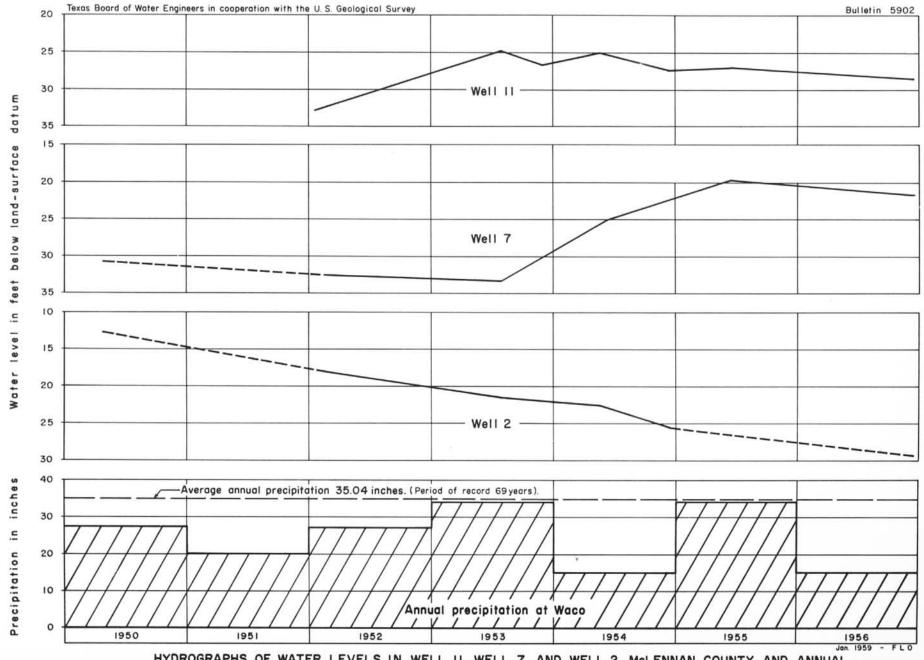
MCLENNAN COUNTY



WATER-LEVEL MEASUREMENTS IN MCLENNAN COUNTY, TEXAS

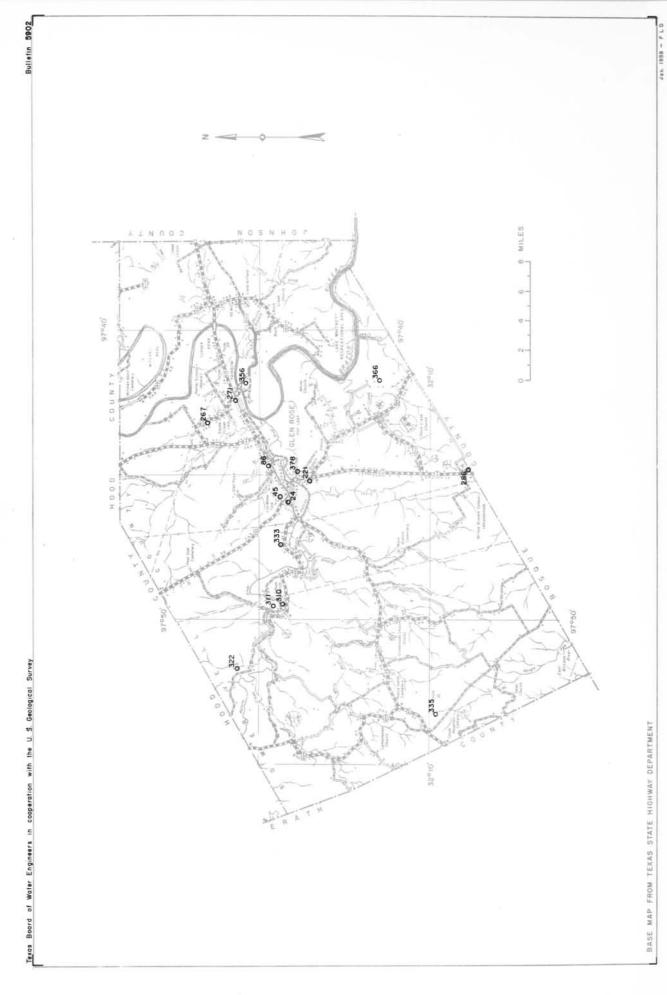
1. Lat. 31°35', long. 97°27'. Diameter 7 inches.

Date			Water Level	Date			Water Level	Date	9		Water Level
Apr.	25,	1950	144.99	Nov.	19,	1953	173.43	May	19,	1954	175.35
	2.	Lat.	31°33',	long. 97	°27'	. Dia	meter 6	inches,	dept	h 300	feet.
		1950 1952				1953 1954	21.51 22.55			1954 1956	25.57 29.27
	4.	Lat.	31°31',	long. 97	°27'	. Dia	meter 8	inches,	dept	h 125	feet.
		1950 1952		July Nov.		1953	52.84 52.95	May	19,	1954	53.67
	5.	Lat.	31°32',	long. 97	°26'	. Dia	meter 7	inches,	dept	h 100	feet.
Feb.	18,	1950 1952 1953	12.32 14.75 12.24		19,	1953 1954	11.70 14.93 12.88			1955 1956	8.39 15.11
	7.	Lat.	31°26',	long. 97	°23†	. Dia	meter 8	inches,	dept	h 200	feet.
Feb.	18,	1950 1952 1953		Dec.	9	1954 1955	19.54 25.00 19.70	Dec	. 12,	1956	21.57
	8.	Lat.	31°28',	long. 97°	19'	. Dia	meter 5	inches,	dept!	h 1,11	3 feet.
July	29,	1953	98.00	Nov.	19,	1953	98.95				
	9•	Lat.	31°29',	long. 97	14"	. Dia	meter 7	inches,	dept	h 1,71	.5 feet.
			179.95 182.90	July	29,	1953	196.45	Nov	19,	1953	194.53
	11.	Lat.	31°29',	long. 97	7°14	'. Di	ameter 1	LO inches	s, de	pth 96	60 feet.
	29,	1952 1953		Dec.	9		24.99 27.30 27.04	Dec	. 12,	1956	28.59



HYDROGRAPHS OF WATER LEVELS IN WELL II, WELL 7, AND WELL 2, McLENNAN COUNTY, AND ANNUAL PRECIPITATION AT WACO, TEXAS

SOMERVELL COUNTY



24. Lat. 32°14', long. 97°45'. Diameter 4 inches, depth 177 feet.

Date	Water Level	Date	Water Level	Date		Water Level
Aug. 28, 1950		May 12, 19	53 11.29	Dec. 11,		
Nov. 20	11.30	Dec. 8, 19		Nov. 21,	, 1957	7.61
Feb. 22, 1951	11.10	June 14, 19	55 13.58			-
45. Lat	. 32°14',	long. 97°45'.	Diameter 6	inches, der	oth 186	feet.
Aug. 29, 1950	21.64	June 4, 19	51 21.00	Dec. 11	, 1956	22.64
Nov. 20	21.54	May 12, 19	53 20.76	Nov. 21,	, 1957	16.78
Dec. 19	20.17	Dec. 8, 19				
Feb. 22, 1951	20.33	June 14, 19	55 22.85			
86. Lat	. 32°14′,	long. 97°44'.	Diameter 4	inches, dep	oth 128	feet.
Sept. 5, 1950	19.10	Feb. 22, 19	51 18.55	June 4	, 1951	18.34
Nov. 20	23.69	May 1	18.57			-
221. La	t. 32°13',	long. 97°45'.	Diameter 4	inches, de	epth 14	O feet.
Sept. 4, 1950	13.6	June 4, 19	51 16.22	June 14	, 1955	19.95
Nov. 21	14.8	May 13, 19		Dec. 11		19.48
Feb. 22, 1951	14.42	Dec. 8, 19		Nov. 21	, 1957	18.14
267. La	t. 32°16',	long. 97°43'.	Diameter 2	inches, de	epth 35	O feet.
June 19, 1930	+8.9	June 4, 19	51 6.47	Dec. 11	1956	14.41
Aug. 11, 1950		May 13, 19		Nov. 21		15.60
Nov. 22	5.04	Dec. 9, 19	1 2	1.01.	-221	
Feb. 22, 1951		June 14, 19				
271. La	t. 32°15',	long. 97°42'.	Diameter 4	inches, de	epth 20	O feet.
Δυσ 11 1050	26.24	June 4, 19	51 26.67	June 14	. 1955	29.07
Aug. 11, 1950 Nov. 22	26.27	May 13, 19		Dec. 11		
Feb. 22, 1951		Dec. 9, 19		Nov. 21		34.96
		long. 97°44'.				
						a1
Aug. 11, 1950		June 4, 19		June 14		91.74
Feb. 22, 1951		May 13, 19		Dec. 11		92.21
May 1	90.11	Dec. 8, 19	54 93.06	Nov. 21	, 1957	92.08

WATER-LEVEL MEASUREMENTS IN SOMERVELL COUNTY -- CONTINUED

378. Lat. 32°13', long. 97°44'. Diameter 4 inches, depth 120 feet.

Sept. 6, 1950 Nov. 21 Feb. 22, 1951 May 1	27.12 25.47 23.85 26.50	June 4, 1951 May 12, 1953 Dec. 8, 1954 June 14, 1955	31.74 34.02 27.15 32.24	Dec. 11, 1956 Nov. P1, 1957	27.70 25.91
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⁺ Indicates water-level, in well, above land-surface datum.

