

Ground-Water Levels in Observation Wells in Kansas, 1963

By Margaret E. Broeker
and John D. Winslow

STATE
GEOLOGICAL
SURVEY
OF
KANSAS

BULLETIN 173



THE UNIVERSITY OF KANSAS
LAWRENCE, KANSAS - 1964

STATE OF KANSAS John Anderson, Jr., Governor

BOARD OF REGENTS Henry A. Bubb, Chairman
William F. Danenbarger, Vice-Chairman

Whitley Austin	Ray Evans	Dwight D. Klinger
A. H. Cromb	Clement H. Hall	L. M. Morgan
		Clyde M. Reed, Jr.

Max Bickford, Executive Director

MINERAL INDUSTRIES COUNCIL Robert F. Walters, Chairman

Howard Carey, Jr.	O. S. Fent	George K. Mackie, Jr.
Simeon S. Clarke	Bruce G. Gleissner	W. L. Stryker
Charles S. Cook	Dane Hansen	Benjamin O. Weaver
Lee H. Cornell	Beatrice L. Jacquart	

STATE GEOLOGICAL SURVEY OF KANSAS

W. Clarke Wescoc, M.D., Chancellor of The University and ex officio Director of the Survey
Frank C. Foley, Ph.D., State Geologist and Director
William W. Hambleton, Ph.D., Assoc. State Geologist and Assoc. Director
Raymond C. Moore, Ph.D., Sc.D., Principal Geologist Emeritus
John M. Jewett, Ph.D., Senior Geologist
Doris E. Nodine Zeller, Ph.D., Editor
Grace E. Muilenburg, B.S., Public Information Director
Kenneth J. Badger, Chief Draftsman
Lila M. Watkins, Secretary

RESEARCH DIVISIONS	DIVISION HEAD
Basic Geology	Daniel F. Merriam, Ph.D.
Petrography	Ada Swineford, Ph.D.
Geochemistry	Frederic R. Siegel, Ph.D.
Mineral Resources	Allison L. Hornbaker, M.S.
Oil and Gas	Edwin D. Goebel, M.S.
Ceramics	Norman Plummer, A.B.

COOPERATIVE STUDIES WITH UNITED STATES GEOLOGICAL SURVEY

Ground-Water Resources Robert J. Dingman, B.S., District Geologist
Mineral Fuels W. L. Adkison, B.S., geologist in charge

BRANCH OFFICES

Geological Survey Well Sample Library, 4150 Monroe, Wichita
Geological Survey Southwest Kansas Field Office, 1111 Kansas Plaza, Garden City



BULLETIN 173

Ground-Water Levels in Observation Wells in Kansas, 1963

By Margaret E. Broeker
and John D. Winslow

Prepared by the United States Geological Survey and the State Geological Survey of Kansas, with the cooperation of the Division of Water Resources of the Kansas State Board of Agriculture, the Environmental Health Services of the Kansas State Department of Health, and the City of Wichita, and integrated with the program of the Interior Department for development of the Missouri River Basin.

Printed by authority of the State of Kansas
Distributed from Lawrence

UNIVERSITY OF KANSAS PUBLICATIONS
DECEMBER, 1964

CONTENTS

	PAGE
Abstract	3
Introduction	3
Acknowledgments	4
Cooperative ground-water program	4
Scope of the water-level program	5
Well-numbering system	7
Precipitation	8
Changes in water levels	9
Western Kansas	11
Central Kansas	13
Eastern Kansas	13
Records of water levels	17
Bibliography	91

ILLUSTRATIONS

FIGURE	PAGE
1. Areas in Kansas for which ground-water reports have been published as bulletins by the State Geological Survey.	4
2. Observation wells in Kansas, December 31, 1963.	6
3. Observation wells in Bostwick unit, Jewell and Republic counties, Kansas.	7
4. Observation wells in Kanopolis unit, Saline and McPherson counties, Kansas.	7
5. Observation wells in <i>Equus</i> -beds area, Harvey and Sedgwick counties, Kansas.	8
6. Observation wells near Mulvane, Sumner County, Kansas.	9
7. Observation wells in Smith and Osborne counties, Kansas.	9
8. Observation wells near Topeka, Shawnee County, Kansas.	9
9. Sketch of Cloud County, Kansas, illustrating well-numbering system based on land-classification system.	9
10. Monthly precipitation during 1963 and normal monthly precipitation at Goodland, Concordia, and Lawrence, Kansas.	10

FIGURE	PAGE
11. Cumulative normal precipitation and cumulative precipitation for 1963 in nine segments of Kansas.	11
12. Annual precipitation and cumulative departure from normal precipitation for the period 1931 through 1963 at Goodland, Concordia, and Lawrence, Kansas.	12
13. Hydrographs of four wells in Finney, Scott, and Sherman counties, Kansas.	13
14. Hydrographs of nine wells in Ford, Grant, Hamilton, Haskell, Morton, Seward, and Stanton counties, Kansas.	14
15. Depth to water in selected observation wells in Scott and Wichita counties, Kansas.	15
16. Depth to water in selected observation wells in Finney County, Kansas.	15
17. Depth to water in selected observation wells in Morton, Stanton, Grant, Stevens, Haskell, and Seward Counties, Kansas.	16
18. Hydrographs of seven wells in Barton, Mitchell, Harvey, and Sedgwick counties, Kansas.	17
19. Map of Wichita well field in <i>Equus</i> -beds showing lines of equal change in water level from August 30, 1940, to December 31, 1963.	18
20. Area of decline of water table in Wichita well-field area from September 1940 to December 31, 1963.	18
21. Hydrographs of two wells in Douglas and Shawnee counties, Kansas.	19

TABLES

TABLE	PAGE
1. U.S. Geological Survey Water-Supply Papers in which water-level measurements of observation wells in Kansas have been published.	3
2. Observation wells in Kansas at the end of 1963.	5
3. Valley areas included in the Missouri Basin Program.	7
4. Water levels in observation wells.	19

Ground-Water Levels in Observation Wells in Kansas, 1963

ABSTRACT

Measurements of water levels in 869 wells in 78 counties in Kansas during 1963 are given in this report, the eighth in a series of annual water-level reports published by the State Geological Survey of Kansas. Ground-water levels, in general, had a net decline for the year as the result of below-normal precipitation over most of the State. Extensive use of ground water for irrigation accelerated the decline of ground-water levels in parts of western Kansas.

INTRODUCTION

In 1957 the first of a series of annual reports, containing records of observation wells in Kansas in 1956, was published as Bulletin 125 of the State Geological Survey of Kansas. The present report is the eighth in this series and contains the water-level measurements of 869 wells made during 1963. The bulletin numbers of the seven earlier reports are:

Year	State Geological Survey Bulletin	Year	State Geological Survey Bulletin
1956	125	1960	153
1957	131	1961	159
1958	141	1962	167
1959	146		

Prior to 1956 water-level measurements were published annually by the U.S. Geological Survey as Water-Supply Papers. Those in which measurements of observation wells in Kansas have been published are given in Table 1. Beginning in 1956 (Water-Supply Paper 1456) the records of a selected network of observation wells are to be published in 5-year increments by the U.S. Geological Survey.

TABLE 1.—U.S. Geological Survey Water-Supply Papers in which water-level measurements of observation wells in Kansas have been published.

Year	Water-supply paper	Year	Water-supply paper
1935	777	1946	1073
1936	817	1947	1098
1937	840	1948	1128
1938	845	1949	1158
1939	886	1950	1167
1940	908	1951	1193
1941	938	1952	1223
1942	946	1953	1267
1943	988	1954	1323
1944	1018	1955	1406
1945	1025	1956	1456
		1957-61	1781

The objectives of the observation-well program are to provide long-term continuous records of fluctuations of water levels in representative wells, to facilitate the prediction of trends in ground-water levels that will indicate the probable status of important ground-water supplies in the future, to aid in the prediction of the base flow of streams, and to provide information for use in basic research. These selected records serve as a framework to which many short-term records collected during an intensive investigation may be related.

The water level may be influenced by direct recharge from precipitation, withdrawals from wells, transpiration by vegetation, evaporation from the soil, changes in atmospheric pressure, and discharge to streams or other surface-water bodies.

ACKNOWLEDGMENTS

Measurements of water levels by the Division of Water Resources were made in southwestern Kansas by D. D. Jacob, in south-central Kansas by F. J. Ellyson, in northwestern and north-central Kansas by H. C. Bennett, and in eastern Kansas by Don Schmanke and D. L. TenEyck. The measurements for two wells in the Anthony well field were submitted by W. J. Schriever, Chief Engineer. Measurements of the water levels in wells in the Almena, Bostwick, and St. Francis Units of the Missouri Basin program were made by the Bureau of Reclamation under the direction of G. C. Lynn, Chief, Irrigation Operations Branch. The other wells were measured by members of the Federal and State Geological Surveys.

COOPERATIVE GROUND-WATER PROGRAM

The measurement of water levels in selected wells for the observation-well program in Kansas is carried out as a part of a cooperative ground-water program by federal and state agencies. The cooperative investigation of the ground-water resources of Kansas was begun in 1937 and is presently conducted by the U.S. Geological Survey, the State Geological Survey of Kansas, the Environmental Health Services of the State Department of Health, and the Division of Water Resources of the State Board of

Agriculture. The City of Wichita cooperates in a study of the Equus-beds area. In 1946 special studies were started in parts of the state lying within the Missouri Basin as a part of the Interior Department program for development of the Missouri Basin. These special studies were made in areas in which the Bureau of Reclamation was making investigations of proposed irrigation projects.

The ground-water program in Kansas is carried out under the direction of, or in cooperation with, the following:

- U.S. Geological Survey
 - Director T. B. Nolan
 - Ground-Water Branch
 - Chief O. M. Hackett
 - Branch Area Chief T. G. McLaughlin
 - District Geologist R. J. Dingman
- State Geological Survey of Kansas
 - Director F. C. Foley
 - Associate Director W. W. Hambleton
- State Department of Health, Environmental Health Services
 - Chief Engineer J. L. Mayes
 - Chief, Oil-Field Section B. F. Latta
- State Water Resources Board
 - Executive Secretary D. F. Metzler
- State Board of Agriculture, Division of Water Resources
 - Chief Engineer R. V. Smrha
 - Engineer H. L. Mackey
- Water Commissioners
 - Eastern Kansas J. E. Schrock
 - Northwestern Kansas C. I. Stocking
 - South-central Kansas J. M. Street
 - Southwestern Kansas G. M. Vincent

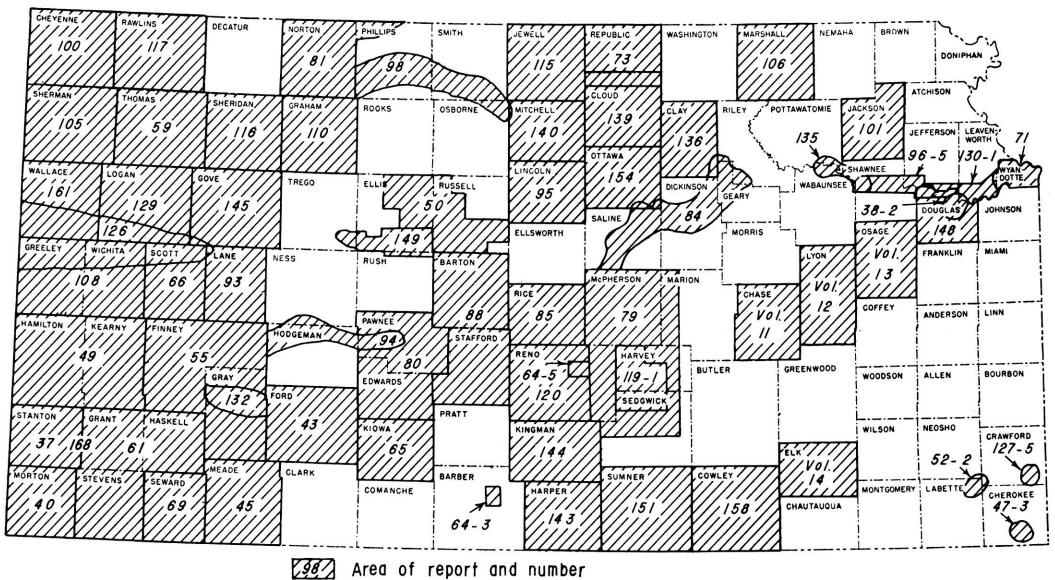


FIGURE 1.—Areas in Kansas for which ground-water reports have been published as bulletins by the State Geological Survey. (Numbers on map correspond to bulletin numbers.)

City of Wichita, Water-Supply Division

Director R. H. Hess
 Hydrologist G. J. Stramel
 Superintendent of well field S. A. Smith

Reports of the cooperative ground-water investigations in Kansas have been published as bulletins of the State Geological Survey. Since the program was started in 1937, investigations have been conducted in all or parts of 87 counties (Fig. 1). In 1963 the report describing the geology and water resources of Wallace County (Hodson, 1963) was published.

The nomenclature and classification of the geologic units described in this report are those of the State Geological Survey of Kansas. They differ somewhat from the usage adopted by the U.S. Geological Survey.

SCOPE OF WATER-LEVEL PROGRAM

At the beginning of 1963 the water levels in

820 wells were being observed. During the year 49 wells were added to the observation-well network and measurements were discontinued in 47 wells. By the end of 1963 there were 822 wells in 77 counties being measured. Partial records are included for the 47 wells dropped from the program during the year. Eleven wells were equipped with continuous water-level recorders; some wells were observed weekly, some monthly, some quarterly, and some annually. The distribution of the wells by counties is given in Table 2 and is shown in Figures 2 to 8 inclusive. In five areas in central Kansas the wells are too closely spaced to show on the areal map in Figure 2, hence these areas are enlarged in Figures 3 through 8.

In 1946 an observation-well program was started as a part of the program of the Department of the Interior for the development of the Missouri Basin. These wells are in valley areas

TABLE 2.—Observation wells in Kansas at the end of 1963.

County	Missouri Basin no.	Arkansas Basin no.	Observer*	County	Missouri Basin no.	Arkansas Basin no.	Observer*
Atchison	1	....	GS	Linn	2	....	GS
Barber	....	9	KSBA	Logan	3	....	KSBA
Barton	....	5	KSBA	McPherson	22	....	GS
Brown	4	....	GS	Meade	....	9	KSBA
Chase	....	4	GS	Mitchell	5	....	GS
Cherokee	....	4	GS	Morton	....	4	KSBA
Cheyenne	13	....	BR and KSBA	Nemaha	3	....	GS
Clark	....	4	KSBA	Ness	....	3	KSBA
Cloud	12	....	BR and GS	Norton	4	....	GS and KSBA
Comanche	....	2	KSBA	Osborne	26	....	GS
Crawford	1	1	GS	Ottawa	7	....	GS and BR
Decatur	6	....	KSBA	Pawnee	....	3	KSBA
Douglas	5	....	GS	Phillips	2	....	GS
Edwards	....	3	KSBA	Pottawatomie	2	....	KSBA
Ellis	11	....	GS and KSBA	Pratt	....	4	KSBA
Ellsworth	1	....	GS	Rawlins	4	....	KSBA
Finney	....	14	KSBA	Reno	....	2	KSBA and W
Ford	....	6	KSBA	Republic	91	....	BR
Gove	3	....	KSBA	Rice	....	2	KSBA
Graham	5	....	KSBA	Rooks	12	....	KSBA
Grant	....	25	KSBA	Rush	....	11	KSBA
Gray	....	10	KSBA	Russell	6	....	KSBA
Greeley	3	1	KSBA	Saline	17	....	GS
Hamilton	....	5	KSBA	Scott	....	7	KSBA
Harper	....	2	A	Sedgwick	....	86	W, KSBA, GS
Harvey	....	161	W	Seward	....	4	KSBA
Haskell	....	3	KSBA	Shawnee	22	....	KSBA and GS
Hodgeman	....	3	KSBA	Sheridan	4	....	KSBA
Jackson	3	....	GS	Sherman	7	....	KSBA
Jefferson	2	....	GS	Smith	15	....	GS
Jewell	35	....	BR and GS	Stafford	....	3	KSBA
Johnson	4	....	GS	Stanton	....	10	KSBA
Kearny	....	3	KSBA	Stevens	....	6	KSBA
Kingman	....	2	KSBA	Sumner	....	8	GS
Kiowa	....	3	KSBA	Thomas	7	....	KSBA
Labette	....	1	KSBA	Trego	3	....	GS and BR
Lane	....	3	KSBA	Wallace	3	....	KSBA
Leavenworth	1	....	GS	Wichita	3	3	KSBA
Lincoln	3	....	GS	Total	383	439	

* GS, Federal and State Geological Surveys; KSBA, Division of Water Resources, Kansas State Board of Agriculture; BR, Bureau of Reclamation; A, W. J. Schriever, Anthony, Kansas; W, City of Wichita.

TABLE 3.—Valley areas included in the Missouri Basin Program.

Unit	Valley	County	Number of wells being measured at end of 1963
Almena	Prairie Dog Creek	Norton, Phillips	3
Bostwick	Republican River	Jewell, Republic, Cloud	127
Cedar Bluff	Smoky Hill River	Ellis, Trego	14
Glen Elder	Solomon River	Mitchell	5
Kanopolis	Smoky Hill River	Saline, McPherson, Ellsworth	40
Kirwin	North Fork Solomon River	Smith, Phillips, Osborne	20
Webster	South Fork Solomon River	Osborne	32
Wilson	Saline River	Lincoln	3
St. Francis	South Fork Republican River	Cheyenne	13
Total			257

that were proposed, or were being developed, as irrigation projects by the Bureau of Reclamation. The water-level measurements made on these wells during 1963 are included in this report. The areas included in the Missouri Basin Program are given in Table 3.

WELL-NUMBERING SYSTEM

In this report most of the wells are numbered either serially within counties or in accordance with the Bureau of Land Management’s system of land subdivision. In the location system the first set of digits of a well number indicates the township (Fig. 2), the second set, the range east or west of the Sixth Principal Meridian, and the third set, the section in which the well is situated. The first letter denotes the 160-acre tract, the second, the 40-acre tract, and the third,

the 10-acre tract. Thus, in Cloud County, the number 6-2-30dad indicates that the well is in the SE NE SE sec. 30, T 6 S, R 2 W (Fig. 9).

The letters (MB) following the well number indicate that the well is measured as part of the Missouri Basin development program of the Department of Interior and that records previous to 1956, if any, were released annually in a series of mimeographed reports. The letter (C) indicates that the well is observed as a part of the cooperative ground-water program and previous records, if any, have been published in the annual series of Water-Supply Papers.

The prefix “M” in the number of some wells in Harvey and Sedgwick counties indicates public-supply wells of the City of Wichita, and the suffix “r” indicates a replacement for the original municipal well of that number. The suffix letter “b” designates a shallow observation well near the municipal well of the same num-

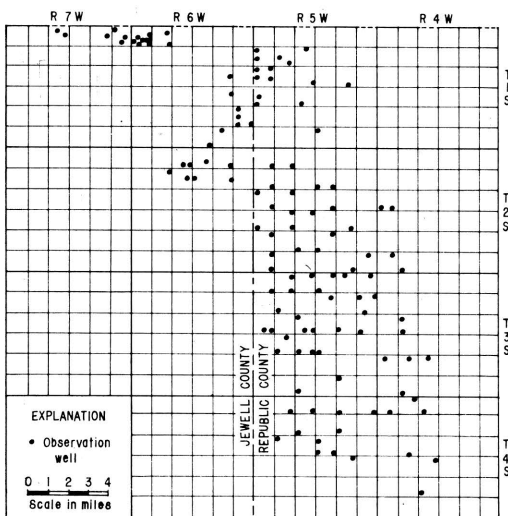


FIGURE 3.—Observation wells in Bostwick unit, Jewell and Republic counties, Kansas, December 31, 1963.

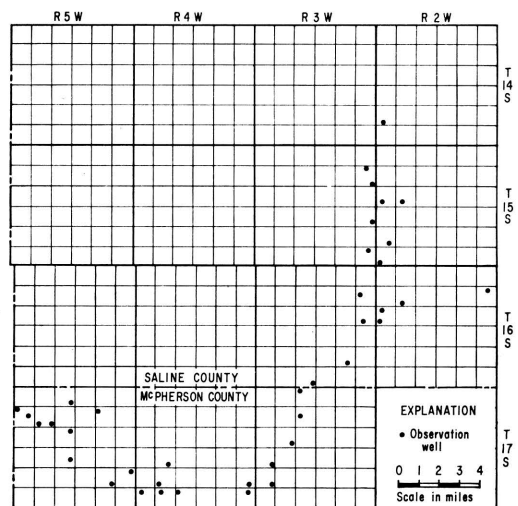


FIGURE 4.—Observation wells in Kanopolis unit, Saline and McPherson counties, Kansas, December 31, 1963.

ber; the letter "d" indicates a deep observation well near the same well. The observation wells are from 200 to 500 feet from the pumped well, and generally, where there are both shallow and deep observation wells, they are adjacent to each other.

PRECIPITATION

Information pertaining to precipitation was obtained from the U.S. Weather Bureau, Climatological Data, Kansas, Annual Summary, 1963 (U.S. Department of Commerce, 1964). Annual

precipitation in the State ranged from 33.66 inches at Stilwell in Johnson County to 9.26 (estimated) inches at Elkhart in Morton County.

Precipitation in Kansas during 1963 is summarized in Figures 10, 11, and 12. Figure 10 shows the monthly precipitation and normal precipitation at Goodland in western Kansas, at Concordia in central Kansas, and at Lawrence in eastern Kansas. The normal precipitation and the departure from normal in the nine Weather Bureau divisions of the State (Fig. 11), as stated by the Weather Bureau in the Annual Summary, Climatological Data, 1963, are:

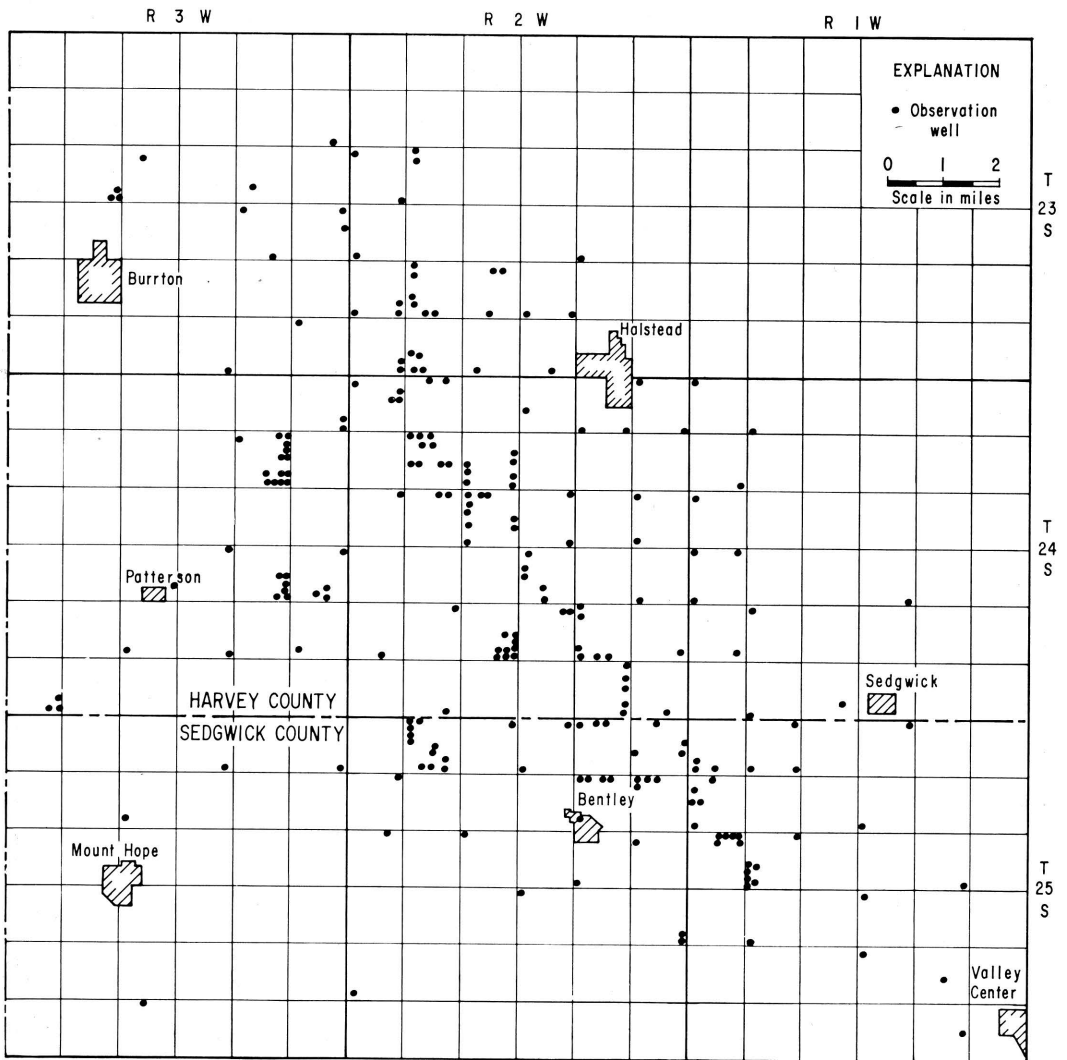


FIGURE 5.—Observation wells in *Equus*-beds area, Harvey and Sedgwick counties, Kansas, December 31, 1963.

Division	Precipitation, 1963	Normal precipitation, inches	Departure from normal, inches
Northwest	20.03	19.54	+0.49
North-central	23.89	25.28	-1.39
Northeast	22.95	33.22	-10.27
West-central	17.44	19.17	-1.73
Central	22.13	26.11	-3.98
East-central	23.32	35.53	-12.21
Southwest	15.83	17.78	-1.95
South-central	22.41	25.89	-3.48
Southeast	21.34	36.81	-15.47

The average precipitation was below normal in all divisions except for northwest Kansas. Precipitation ranged from 0.49 inch above normal in the northwest division to 15.47 inches below normal in the southeast division.

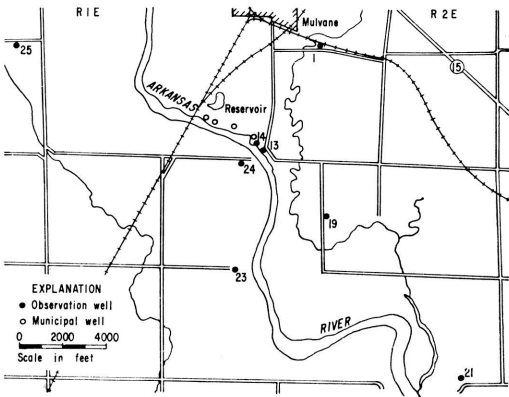


FIGURE 6.—Observation wells near Mulvane, Sumner County, Kansas, December 31, 1963.

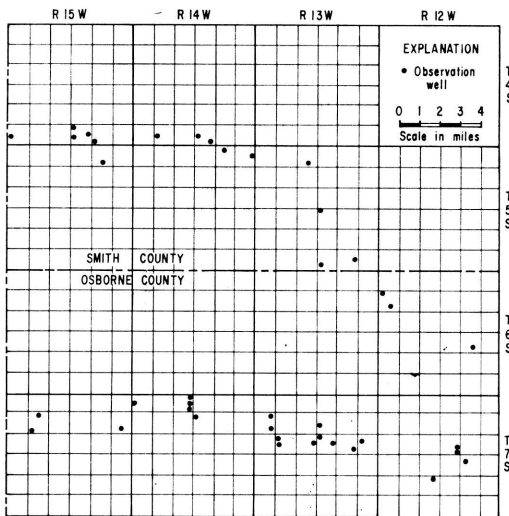


FIGURE 7.—Observation wells in Smith and Osborne counties, Kansas, December 31, 1963.

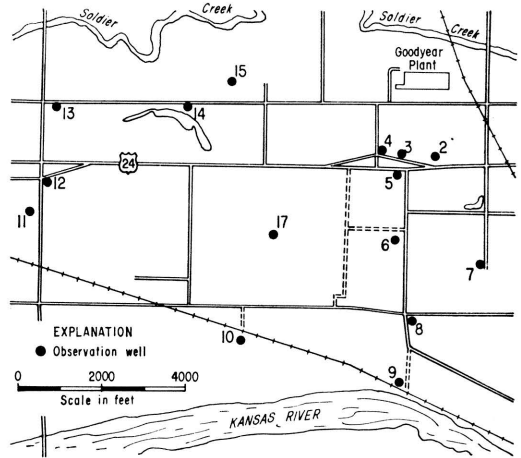


FIGURE 8.—Observation wells near Topeka, Shawnee County, Kansas, December 31, 1963.

Figure 12 shows the annual precipitation at Goodland, Concordia, and Lawrence for the 33-year period 1931 to 1963. Since 1931 precipitation at each of these places has averaged above normal. Normal precipitation at Goodland and Lawrence was taken as 16.50 and 34.57 inches, respectively, for the periods of records 1931-1960. Normal precipitation at Concordia was 25.39 for the period of record 1921-50.

CHANGES IN WATER LEVELS

The water table is not stationary but fluctuates up and down, depending upon the rate of discharge and the rate of replenishment of the ground-water reservoir. Under natural conditions, over a long period of time, there is approximate equilibrium between the amount of

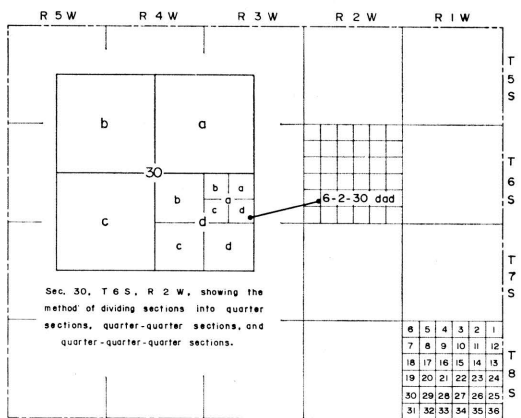


FIGURE 9.—Sketch of Cloud County, Kansas, illustrating well-numbering system based on land-classification system.

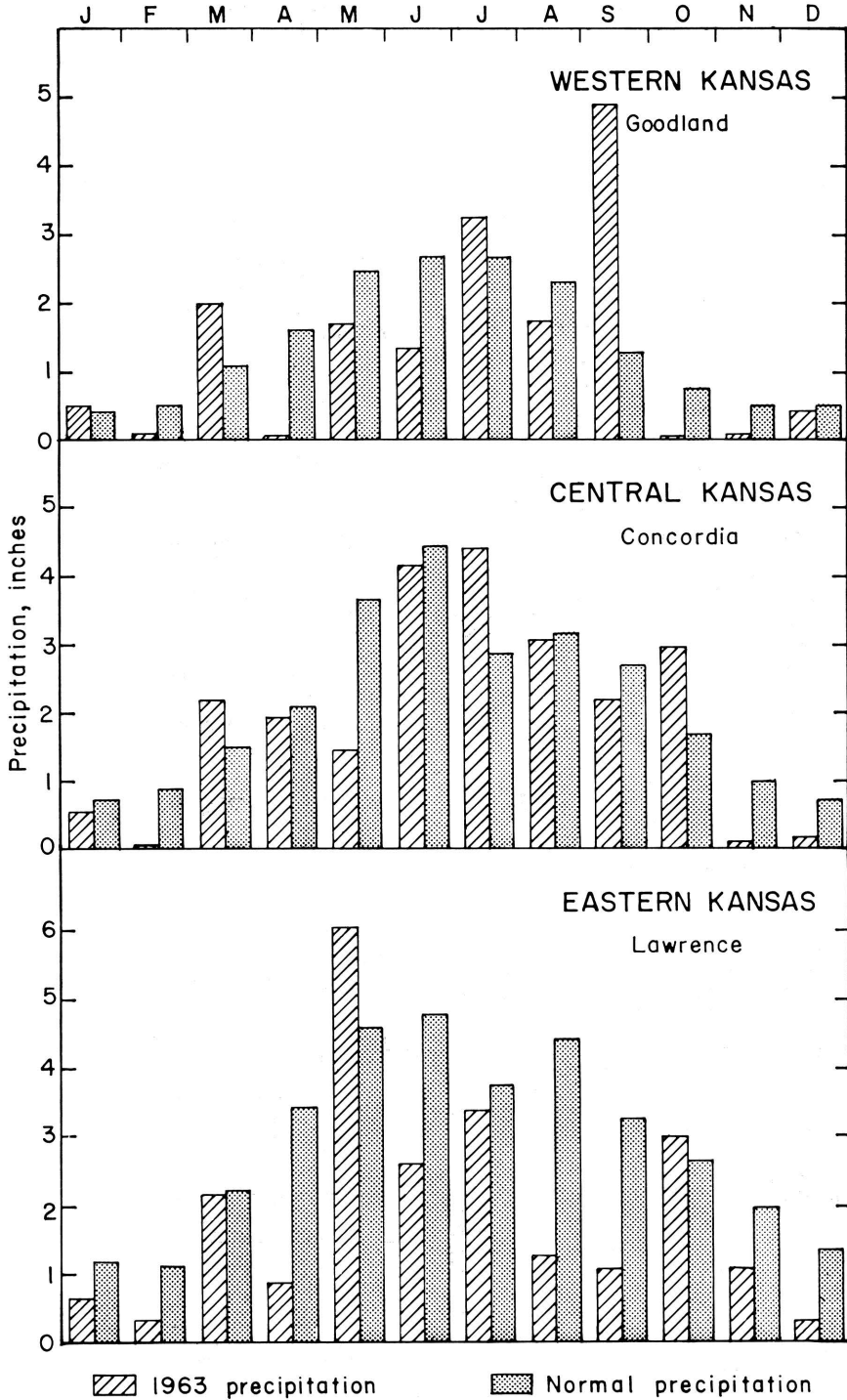


FIGURE 10.—Monthly precipitation during 1963 and normal monthly precipitation at Goodland, Concordia, and Lawrence, Kansas. Data from U.S. Weather Bureau, Climatological Data, Kansas, Annual Summary, 1963 (U.S. Department of Commerce, 1964).

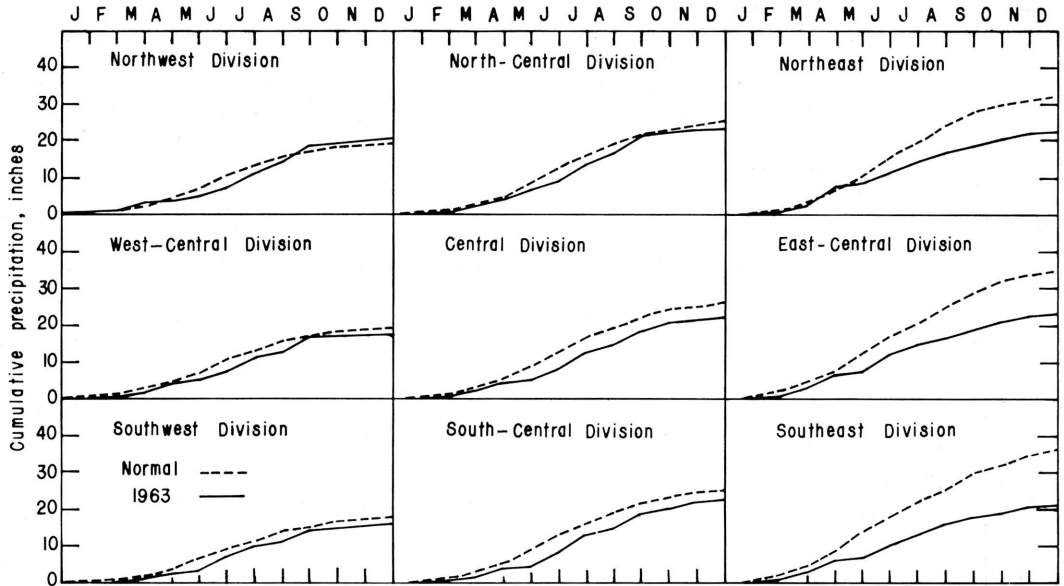


FIGURE 11.—Cumulative normal precipitation and cumulative precipitation for 1963 in nine segments of Kansas. Data from U.S. Weather Bureau, Climatological Data, Kansas, Annual Summary, 1963 (U.S. Department of Commerce, 1964).

water that is added to ground-water storage and the amount that is discharged. The water table rises when the amount of recharge exceeds the amount of discharge, and declines when the discharge exceeds the recharge. Thus, changes in the water levels in wells indicate to what extent the ground-water reservoir is being depleted or replenished.

The relation between the amount of precipitation and the level at which the water stands in wells is complicated by several factors. During a long dry period, the soil moisture becomes depleted through direct evaporation and transpiration by plants, and during times of precipitation, soil moisture must be replenished to field capacity before water can start to descend to the water table. During winter, when the ground is frozen, the water falling on the surface is hindered from reaching the water table, and, during the hot summer, some of the water that falls as rain is lost directly into the air by evaporation.

The factors causing the decline of the water table include (1) the quantity of water pumped from wells, (2) the quantity of water transpired by plants in shallow water-table areas, (3) the quantity lost from the ground-water reservoir by evaporation in shallow water-table areas, and (4) the quantity discharged as effluent seepage into the streams.

Water levels in artesian wells are influenced over large areas by changes in the rate of pumping from other wells in the artesian aquifer, changes in atmospheric pressure, earthquakes, earth tides, and recharge from precipitation.

WESTERN KANSAS

Nearly all municipal water supplies in western Kansas are obtained from ground-water sources. Also, large quantities of water are pumped for irrigation. Average annual recharge in much of the area is low, being of the order of one-fourth to one-half inch. Most of this recharge occurs during years of heavy precipitation. The changes in water levels in western Kansas are shown by the hydrographs of 13 wells in Figures 13 and 14. The changes in water levels in selected observation wells at approximately 5-year intervals are shown for 9 counties in southwestern Kansas in Figures 15 to 17 inclusive.

The precipitation was about normal in western Kansas during 1963, but the water level declined in most wells, largely in response to pumping of ground water for irrigation. Water levels generally continued to follow the declining trend of water levels in recent years in 11 of the 13 wells for which hydrographs are shown in Figures 13 and 14.

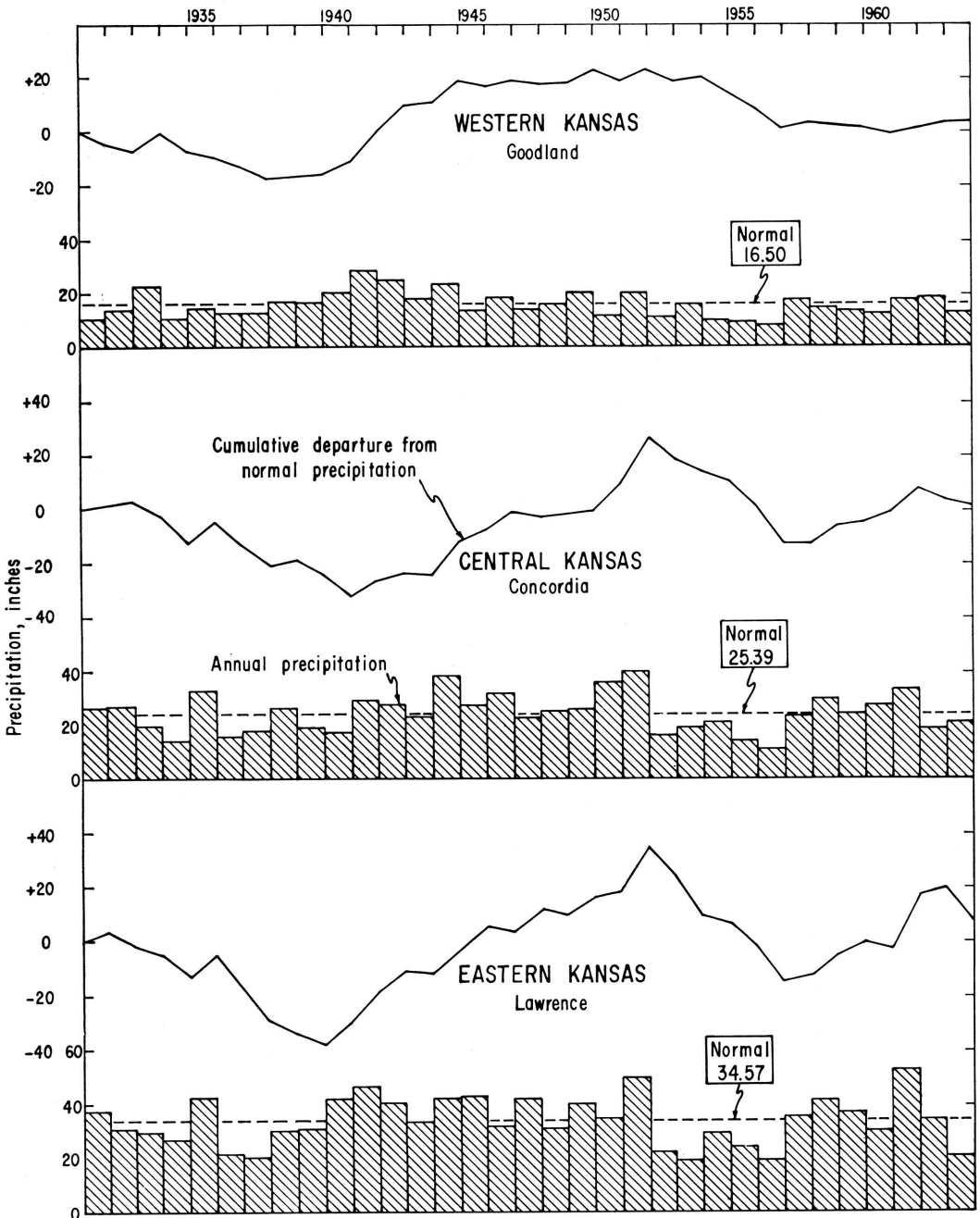


FIGURE 12.—Annual precipitation and cumulative departure from normal precipitation for the period 1931 through 1963 at Goodland, Concordia, and Lawrence, Kansas. (Normals are for the base period 1931-1960.) Data from U.S. Weather Bureau, Climatological Data, Kansas, Annual Summary, 1963 (U.S. Department of Commerce, 1964).

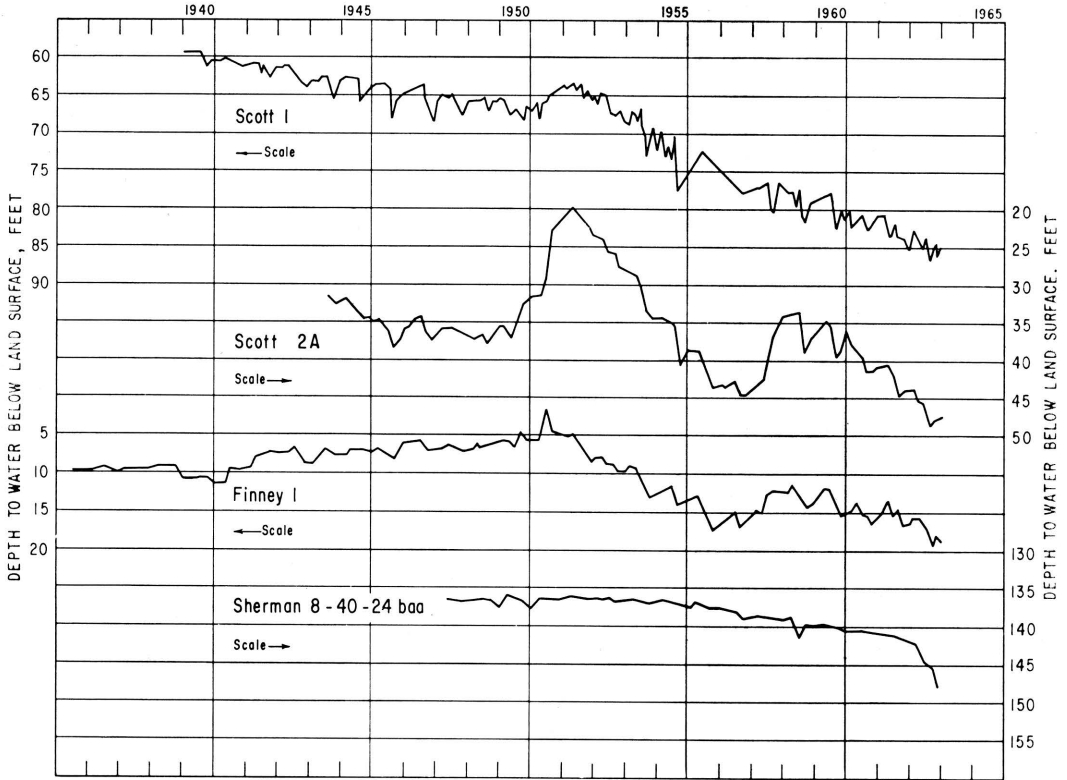


FIGURE 13.—Hydrographs of four wells in Finney, Scott, and Sherman counties, Kansas.

CENTRAL KANSAS

Changes in ground-water levels in central Kansas are shown in Figure 18. This figure gives hydrographs of one well in Barton County, one well in Mitchell County, two wells in Sedgwick County, and three wells in Harvey County. The Sedgwick County well (307) and the three wells in Harvey County are in the Wichita well-field area.

The water level declined in most of central Kansas during 1963. The water level in well 6-9-27ab in Mitchell County had a net decline of 1.6 feet. The water level in the well in Barton County for which the hydrograph is shown in Figure 18 had an average net decline of about 1.2 feet. The water level in well 12 in Sedgwick declined 1.8 feet during the year.

Pumping for municipal supply in the Equusbeds area was begun in 1940 by the City of Wichita. The decline of the water level in the vicinity of the Wichita well field has been caused by two factors: pumping by the City of Wichita and pumping of the many irrigation wells drilled in recent years. The net decline of water

level in the area, between August 30, 1940, and December 31, 1963, is shown in Figure 19. The total area affected by the municipal pumping at the end of 1963 was about 90 square miles. The water level declined more than 10 feet in an area of 36 square miles, and more than 20 feet in an area of 3 square miles. The maximum decline was about 24 feet. The areal decline of the water table from 1940 through 1963 is shown graphically in Figure 20.

EASTERN KANSAS

Changes in ground-water levels in eastern Kansas are shown in Figure 21 by the hydrograph of one well in Douglas County and one well in Shawnee County. The decline of water levels in the two wells during 1962 and 1963 reflects the amount of annual precipitation in 1961, 1962, and 1963. Precipitation at Topeka, in Shawnee County, was 8.57 inches above normal in 1961, 0.10 inch below normal in 1962, and 13.29 inches below normal in 1963. At Lawrence, in Douglas County, precipitation was

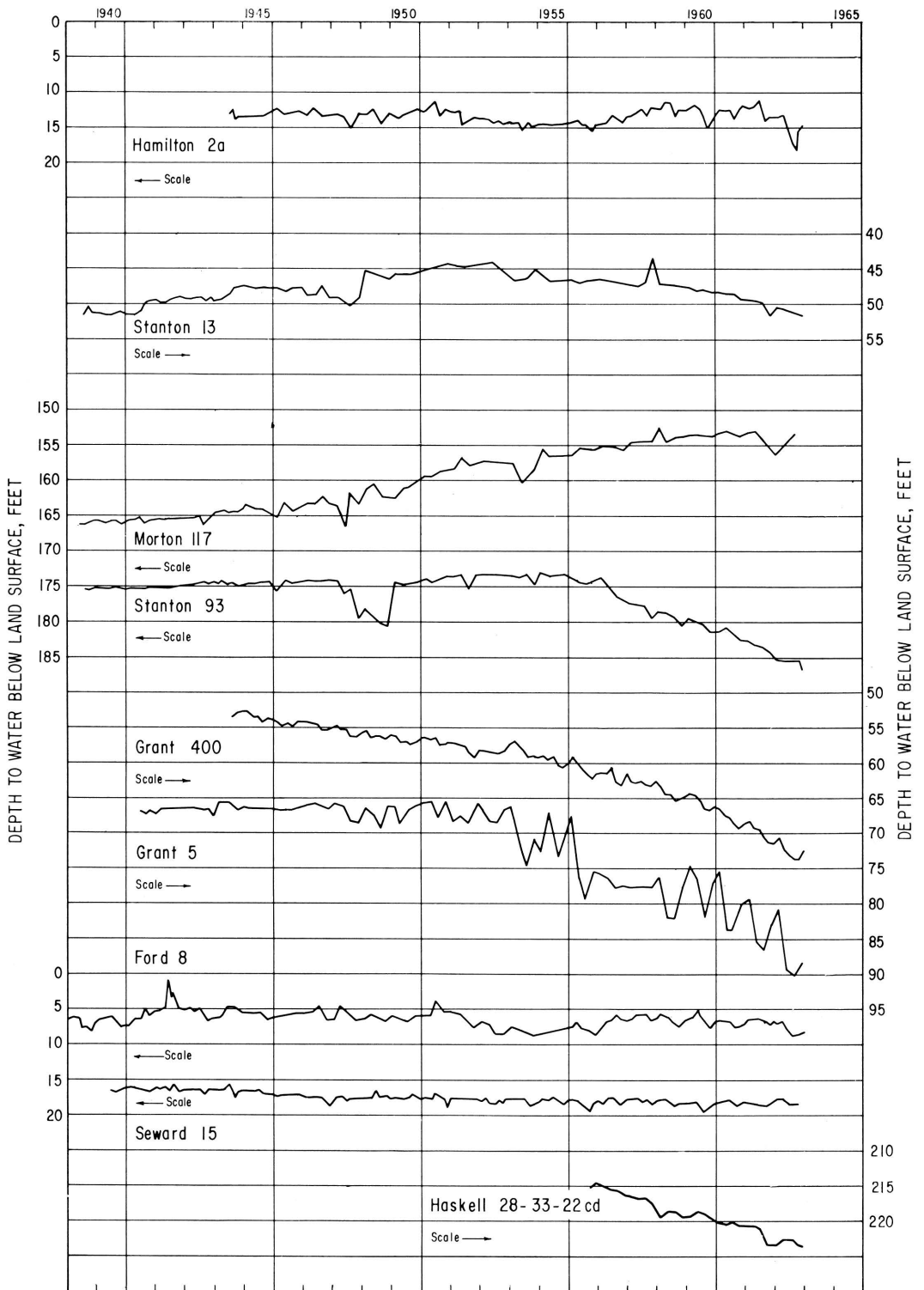


FIGURE 14.—Hydrographs of nine wells in Ford, Grant, Hamilton, Haskell, Morton, Seward, and Stanton counties, Kansas.

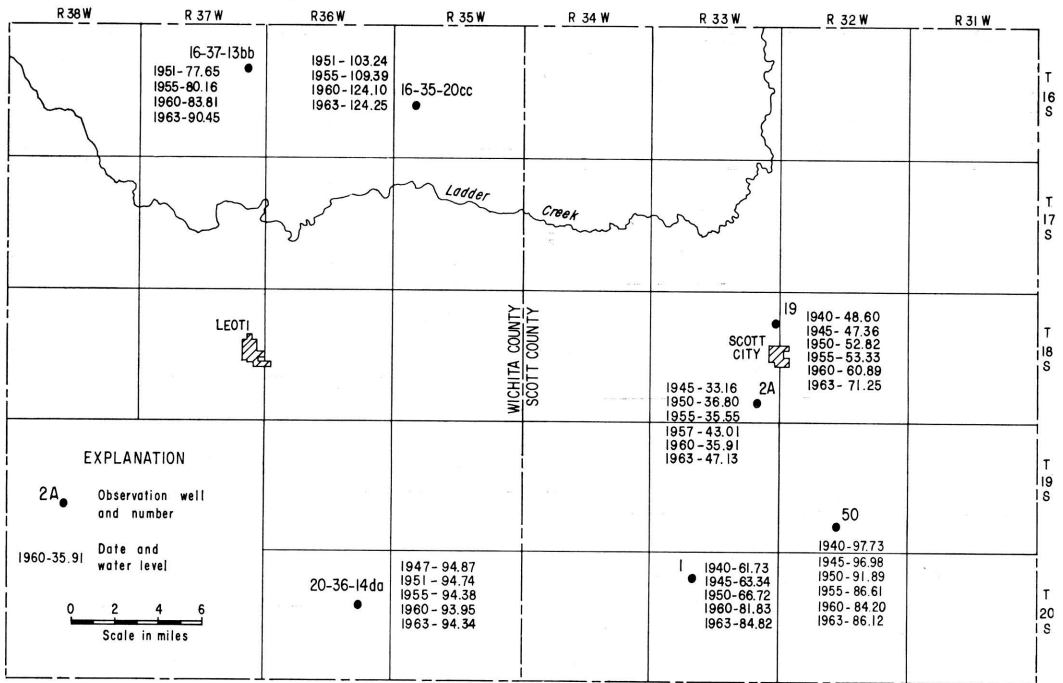


FIGURE 15.—Depth to water in selected observation wells in Scott and Wichita counties, Kansas.

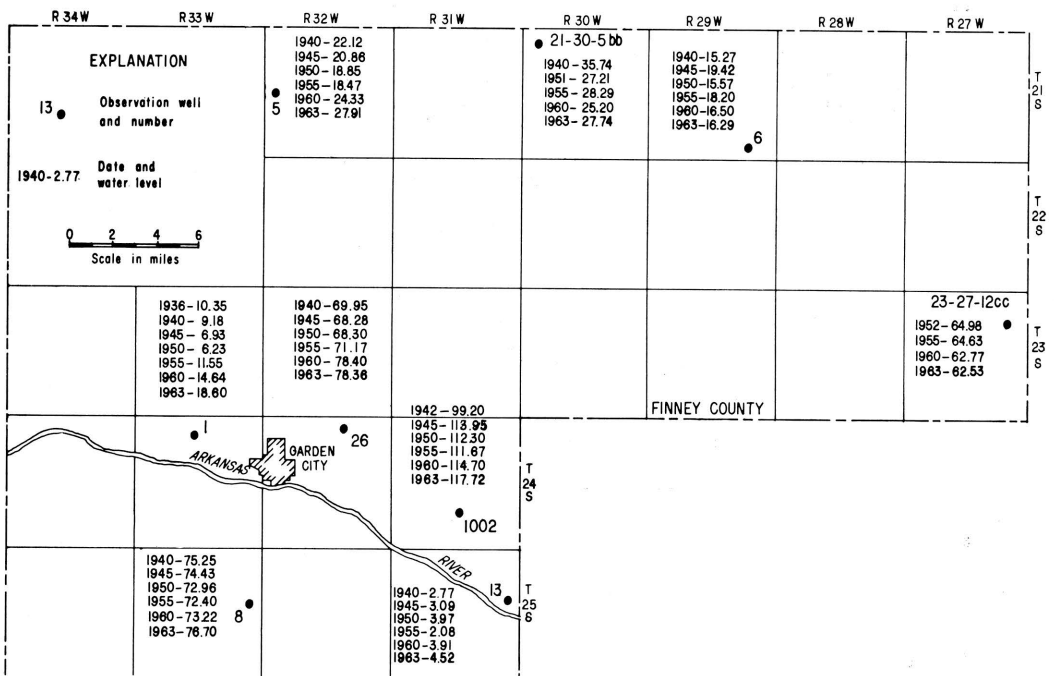


FIGURE 16.—Depth to water in selected observation wells in Finney County, Kansas.

20.46 inches above normal in 1961, 1.82 inches above normal in 1962, and 11.97 inches below normal in 1963.

RECORDS OF WATER LEVELS

Measurements of depth to water in observation wells are given in Table 4 with reference to land-surface datum (lsd), a datum plane that is approximately at the land surface at each well.

Measurements are made from a fixed measuring point which may be a short distance above or below the land-surface datum, and they are then adjusted so that the depths to water reported are in feet below the land-surface datum.

Information for each well in Table 4 is reported by the method explained in the following example: well 19-7-10da in Chase County. Well number as described on page 7 (19-7-10da); Missouri Basin well or Cooperative well (MB or

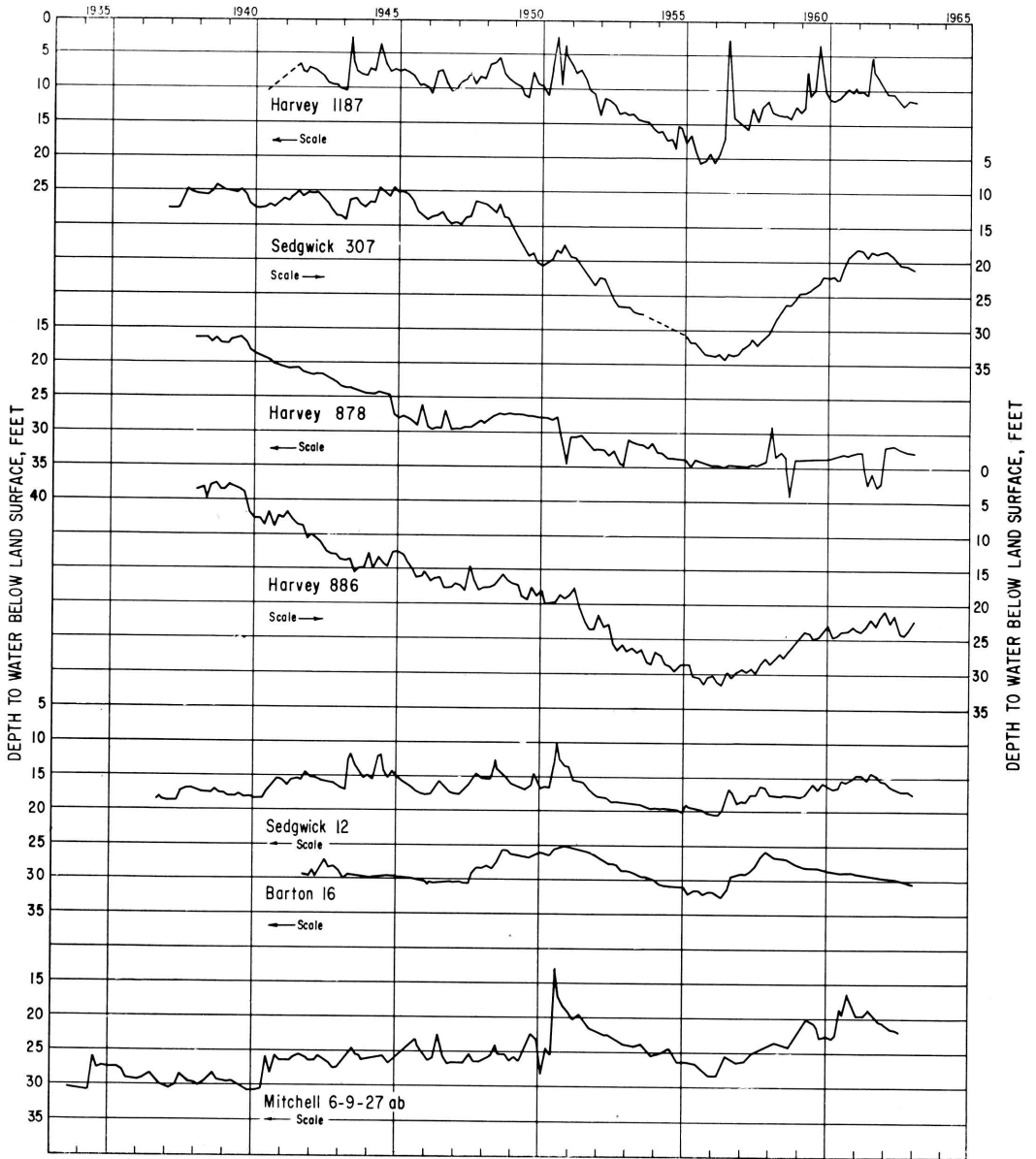


FIGURE 18.—Hydrographs of seven wells in Barton, Mitchell, Harvey, and Sedgwick counties, Kansas.

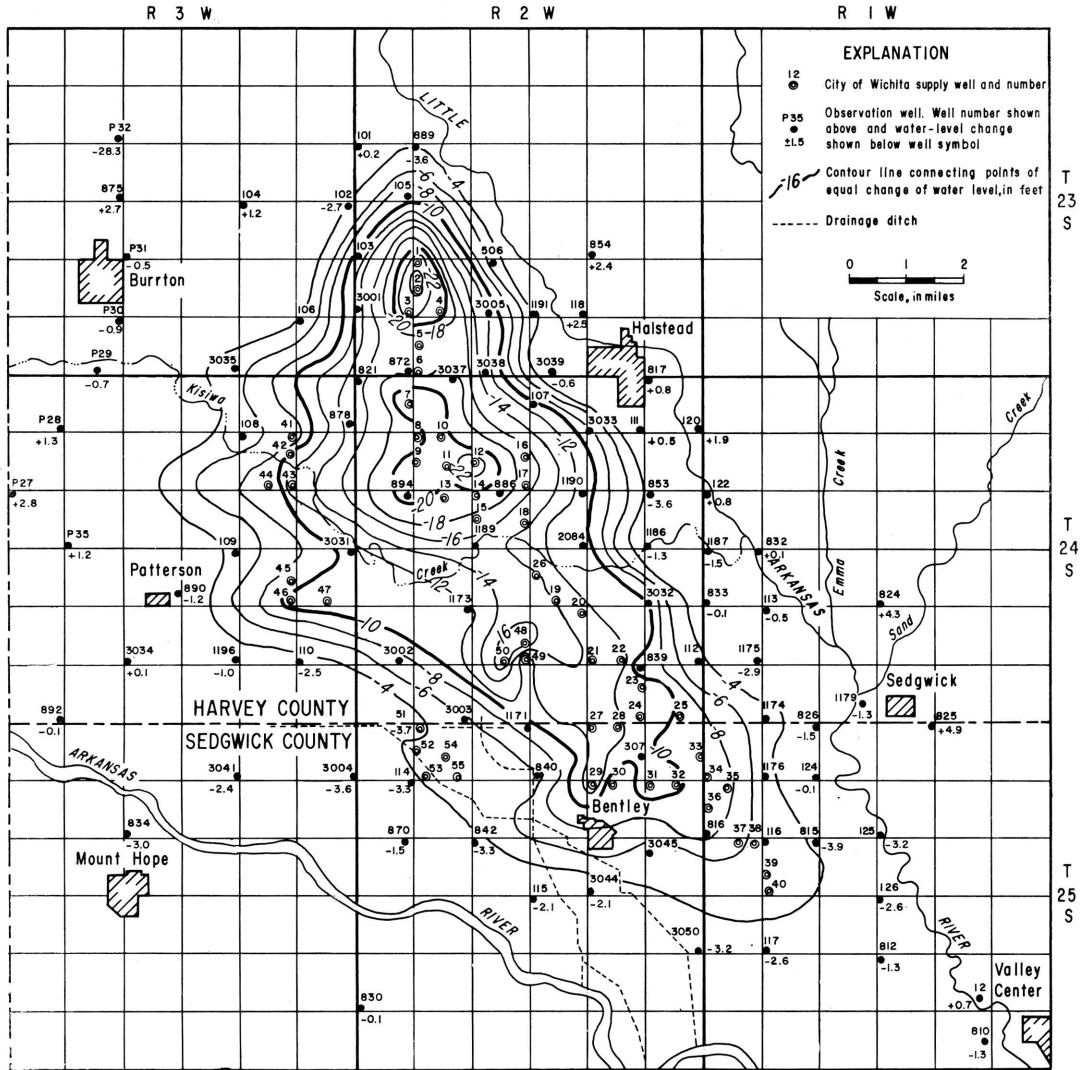


FIGURE 19.—Map of Wichita well field in Equus-beds area showing lines of equal change in water level from August 30, 1940, to December 31, 1963.

C); owner (Herbert T. Drake); type of well (dug, unused, water-table well); geologic formation (alluvium); diameter (42 inches); depth (24 feet); casing (cribbed with rock); description of measuring point (top of concrete curbing, 1.00 foot above land-surface datum); highest water level during period of record (3.19 feet below land-surface datum, July 24, 1951); lowest water level during period of record (20.23 below land-surface datum, Feb. 16, 1957); period of record during which measurements have been made (1948-1963); month, day, and depth to water below land-surface datum of measure-

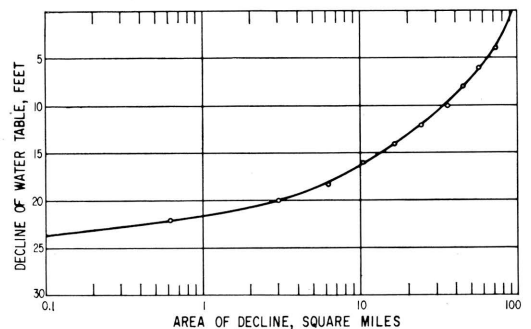


FIGURE 20.—Area of decline of water table in Wichita well-field area from September 1940 to December 31, 1963.

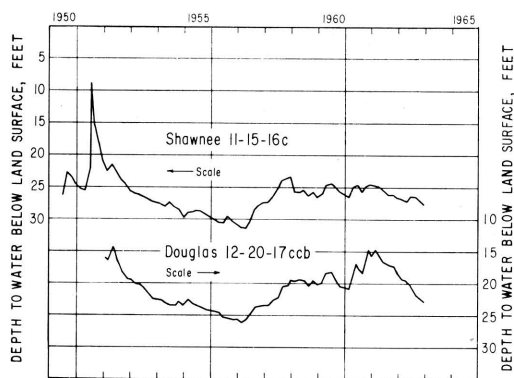


FIGURE 21.—Hydrographs of two wells in Douglas and Shawnee counties, Kansas.

ments made during 1963 (Feb. 6, 7.11; July 22, 10.01; Nov. 14, 14.04).

The letter “P” after a date indicates that the water level was not measured because the well was being pumped. The letters “Pm” following a water-level measurement indicate that the well was being pumped at the time of measurement. Letters “Pc” following a measurement indicate a well was being pumped nearby the measured well when the measurement was made; and where the information was available, the distance of the measured well from the pumped well is indicated following the table of measurements.

TABLE 4.—Water levels in observation wells.

ATCHISON COUNTY

5-18-3dd. (C)* Carl Mehl. Dug, water-table stock and domestic well in glacial deposits; diameter 36 inches, depth 10 feet, cribbed with rock. Well down-gradient from a pond. Measuring point, top boards over well, 0.30 foot above lsd. Highest water level 0.39 below lsd, Sept. 27, 1951; lowest 5.22 below lsd, Oct. 27, 1956. Records available: 1948-52, 1956-57, 1960-63. Mar. 25, 1.78; July 26, 2.82; Oct. 1, 5.13.

BARBER COUNTY

1. (C) D. S. Shaw. SE NW sec. 19, T 31 S, R 15 W. Drilled, unused, water-table well in deposits of Permian age; diameter 8 to 6 inches, depth 95 feet. Measuring point, top of well cover, 1.05 feet above lsd. Highest water level 63.25 below lsd, Dec. 19, 1951; lowest 82.99 below lsd, Oct. 17, 1940. Records available: 1940-63.

Jan. 16	76.24	July 29	75.67	Dec. 20	74.19
Apr. 24	P	Oct. 23	75.15		

4. (C) Madge Evans. SW SE sec. 4, T 32 S, R 12 W. Drilled, water-table irrigation well in alluvium; diameter 16 inches, depth 66 feet. Measuring point, top south side of pump base, 0.80 foot above lsd. Highest water level 12.50 below lsd, June 22, 1949; lowest 19.10 below lsd, Sept. 19, 1956. Records available: 1940-63.

Jan. 16	16.45	July 29	P	Dec. 20	17.10
Apr. 24	P	Oct. 23	16.99		

* (MB) following a well number indicates that the records for these wells were collected as a part of the Missouri Basin Program of the Department of the Interior; (C) indicates that the records were collected as a part of the Kansas Cooperative Ground-water Program.

5. (C) R. Kenney. NE NW sec. 1, T 33 S, R 12 W. Dug, water-table stock well in alluvium; diameter 24 inches, depth 24 feet, cribbed with stone. Measuring point, top north side of curb, 0.90 foot above lsd. Highest water level 16.97 below lsd, June 24, 1957; lowest 30.15 below lsd, Sept. 24, 1941. Records available: 1940-63. Jan. 16, 19.41. Well destroyed.

8. (C) P. Brack. SE NE sec. 17, T 34 S, R 15 W. Dug, unused, water-table well in alluvium; diameter 36 inches, depth 26 feet, cribbed with brick. Measuring point, top north side of brick curb, 0.60 foot above lsd. Highest water level 8.87 below lsd, Nov. 21, 1941; lowest 21.01 below lsd, Apr. 3, 1957. Records available: 1940-63.

Jan. 16	17.23	July 29	17.47	Dec. 20	17.23
Apr. 24	17.31	Oct. 23	18.05		

9. (C) V. D. Wells. SE SE sec. 18, T 34 S, R 15 W. Driven, unused, water-table well in alluvium; diameter 1 inch, depth 6 feet. Measuring point, top of pipe, 3.50 feet above lsd. Highest water level 1.07 below lsd, June 20, 1951; lowest 4.54 below lsd, Aug. 21, 1943. Records available: 1940-63.

Jan. 16	1.63	July 29	1.19	Dec. 20	1.26
Apr. 24	2.29	Oct. 23	2.21		

10. (C) G. H. Davis. NW SW sec. 11, T 35 S, R 15 W. Drilled, unused, water-table well in deposits of Permian age; diameter 5 inches, depth 152 feet. Measuring point, top of casing, 0.10 foot below lsd. Highest water level 102.20 below lsd, Mar. 15, 1945; lowest 107.72 below lsd, Sept. 25, 1948. Records available: 1940-63.

Jan. 16	104.60	July 29	104.67	Dec. 20	104.08
Apr. 24	104.86	Oct. 23	104.98		

BARBER COUNTY—concluded

32-11-30bb. (C) Phillips Petroleum Co. Drilled, water-table observation well in alluvium; diameter 1 1/4 inches, depth 32 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 3.30 below lsd, June 27, 1963; lowest 4.62 below lsd, Aug. 23, 1963. Records available: 1963.

May 15	4.44	July 29	4.41	Oct. 23	4.32
21	4.36	Aug. 23	4.62	Nov. 18	4.27
June 27	3.30	Sept. 30	4.22	Dec. 20	4.05

32-11-30cb. (C) D. S. Grigsby Estate. Drilled, unused, water-table domestic well in alluvium; diameter 6 inches, depth 33 feet. Measuring point, top south edge of casing, at land surface. Highest water level 6.76 below lsd, June 27, 1963; lowest 8.11 below lsd, Oct. 23, 1963. Records available: 1963.

May 15	7.48	July 29	7.41	Oct. 23	8.11
21	7.54	Aug. 23	7.69	Nov. 18	7.33
June 27	6.76	Sept. 30	8.02	Dec. 20	7.95

33-11-20ba. (C) Continental Oil Co. Drilled, water-table observation well in alluvium; diameter 1 1/4 inches, depth 30 feet. Measuring point, top of pipe, 2.56 feet above lsd. Highest water level 5.84 below lsd, June 27, 1963; lowest 7.52 below lsd, Aug. 23, 1963. Records available: 1963.

May 15	7.10	July 29	7.16	Oct. 23	7.48
21	7.07	Aug. 23	7.52	Nov. 18	7.18
June 27	5.84	Sept. 30	7.33	Dec. 20	7.11

33-11-28cb. (C) Albert Harbaugh. Drilled, water-table well in alluvium; diameter 6 inches, depth 29 feet. Measuring point, top west edge of 6-inch coupling, 2.50 feet above lsd. Highest water level 3.01 below lsd, June 27, 1963; lowest 4.14 below lsd, Aug. 23, 1963. Records available: 1963.

May 15	3.90	July 29	3.42	Oct. 23	3.99
21	3.82	Aug. 23	4.14	Nov. 18	3.73
June 27	3.01	Sept. 30	4.03	Dec. 20	3.47

BARTON COUNTY

1. (C) F. Panning. SE cor. sec. 3, T 20 S, R 11 W. Driven, unused, water-table well in alluvium; diameter 1 1/4 inches, depth 8 feet. Measuring point, top edge of pipe, 0.40 foot above lsd. Highest water level 0.30 above lsd, June 26, 1951; lowest 6.74 below lsd, Dec. 12, 1956. Records available: 1942-63. Measurement discontinued.

Jan. 14	5.19	Apr. 22	5.46	Oct. 22	5.29
Feb. 19	5.18	July 25	4.74	Dec. 17	5.96
Mar. 29	5.40				

16. (C) Teichmann. NE SE NE sec. 12, T 20 S, R 13 W. Drilled, unused, water-table well in Pleistocene Grand Island Formation; diameter 6 inches, depth 32 feet. Measuring point, top northwest side of casing, 1.10 feet above lsd. Highest water level 25.02 below lsd, Oct. 23, 1951; lowest 33.14 below lsd, Sept. 14, 1956. Records available: 1942-63.

Jan. 14	29.45	Apr. 22	29.68	Oct. 22	30.12
Feb. 20	29.55	July 25	29.90	Dec. 16	30.28
Mar. 29	29.60				

43. (C) M. Hagen. SW cor. sec. 20, T 20 S, R 11 W. Drilled, unused, water-table well in Pleistocene Grand Island Formation; diameter 6 inches, depth 44 feet. Measuring point, top west edge of casing, 0.50 foot above lsd. Highest water level 12.97 below lsd, Aug. 21, 1951; lowest 23.71 below lsd, Nov. 20, 1957. Records available: 1942-63.

Jan. 14	19.79	Apr. 22	19.96	Oct. 21	21.09
Feb. 19	19.89	July 25	20.23	Dec. 17	21.16
Mar. 29	19.93				

100. (C) Unruh. NW NE sec. 11, T 20 S, R 15 W. Drilled, unused, water-table well in Lower Cretaceous Dakota Formation; diameter 5 inches, depth 76 feet. Measuring point, top east edge of casing, 0.70 foot above lsd. Highest water level 27.05 below lsd, June 23, 1949; lowest 35.47 below lsd, Sept. 18, 1956. Records available: 1944-63. Measurement discontinued.

Feb. 20	32.24	Apr. 22	33.40	Oct. 22	33.10
Mar. 29	32.30	July 25	34.09	Dec. 16	33.30

103. (C) F. Konarek. SE SE sec. 33, T 17 S, R 12 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 5 inches, depth 24 feet. Measuring point, top east edge of casing, 0.40 foot above lsd. Highest water level 0.25 below lsd, Aug. 29, 1950; lowest 8.28 below lsd, Feb. 18, 1957. Records available: 1944-63. Measurement discontinued.

Jan. 15	3.33	Apr. 22	5.16	Oct. 22	5.97
Feb. 20	4.10	July 25	6.23	Dec. 16	6.99
Mar. 29	4.13				

110. (C) Prudential Life Insurance Co. NE NE sec. 33, T 17 S, R 14 W. Drilled, unused, water-table well in alluvium; diameter 6 inches, depth 47 feet. Measuring point, top southwest side of casing below pump base, 0.30 foot above lsd. Highest water level 8.69 below lsd, July 22, 1958; lowest 23.00 below lsd, Oct. 20, 1948. Records available: 1944-63.

Jan. 15	13.38	Apr. 22	13.93	Oct. 22	18.72
Feb. 20	13.21	July 25	16.49	Dec. 16	18.15
Mar. 29	13.29				

131. (C) F. W. Gagleman. SE SE sec. 22, T 19 S, R 15 W. Drilled, unused, water-table well in alluvium; diameter 5 inches, depth 24 feet. Measuring point, top north edge of casing, 0.30 foot above lsd. Highest water level 8.05 below lsd, June 25, 1951; lowest 17.48 below lsd, Feb. 19, 1957. Records available: 1944-63.

Jan. 15	12.92	May 20	13.72	Sept. 23	14.50
Feb. 20	13.04	June 25	14.39	Oct. 22	14.67
Mar. 29	13.11	July 25	15.59	Nov. 22	14.59
Apr. 22	13.33	Aug. 21	15.99	Dec. 16	14.63

18-15-28cc. (109a) (C) A.T.S.F. right-of-way. Drilled, water-table observation well in alluvium; diame-

ter 1¼ inches, depth 68 feet. Measuring point, top of pipe, 4.00 feet above lsd. Highest water level 4.86 below lsd, Nov. 20, 1961; lowest 11.59 below lsd, Dec. 16, 1963. Records available: 1960-63.

Jan. 15	9.50	May 20	11.28	Sept. 23	11.05
Feb. 20	9.61	June 25	11.39	Oct. 22	11.30
Mar. 29	9.73	July 25	9.64	Nov. 22	11.47
Apr. 22	10.22	Aug. 21	11.57	Dec. 16	11.59

BOURBON COUNTY

25-23-27bbb. (C) Harold Comstock. Dug, unused, water-table well in Middle Pennsylvanian Bandera Shale; diameter 5 feet, depth 11 feet. Measuring point, top north side of round hole in slab rock, 1.90 feet above lsd. Highest water level 1.53 below lsd, Sept. 28, 1951; lowest 7.04 below lsd, Apr. 11, 1957. Records available: 1948-52, 1956-57. Measurement discontinued.

BROWN COUNTY

3-16-28bdd. (C) Powhattan Community. Drilled, water-table public-supply well in glacial till; diameter 12 inches, depth 41 feet. Measuring point, top of 2 x 6 between pump and jack, 0.20 foot above lsd. Highest water level 8.67 below lsd, Mar. 14, 1962; lowest 22.27 below lsd, Feb. 1, 1961. Records available: 1960-63. Mar. 25, 15.61; July 27, 15.84; Oct. 1, 18.55.

3-17-31bbb. (C) Baker Community. Drilled, water-table public-supply well in Pennsylvanian limestone; diameter 12 inches, depth 75 feet. Measuring point, top of concrete platform, 0.20 foot above lsd. Highest water level 53.63 below lsd, Sept. 18, 1962; lowest 58.42 below lsd, Feb. 1, 1961. Records available: 1960-63. Mar. 25, 54.60; July 26, 54.93; Oct. 1, 56.21.

4-16-15aad. (C) Mercier Community. Dug, water-table public-supply well in glacial till; diameter 10 feet, depth 44 feet. Measuring point, top of concrete platform, east side of opening, 0.60 foot above lsd. Highest water level 1.98 below lsd, Mar. 14, 1962; lowest 20.14 below lsd, Feb. 1, 1961. Records available: 1960-63. Mar. 25, 5.79; July 26, 7.45; Oct. 1, 9.49.

4-18-29bda. (C) City of Everest. Dug water-table public-supply well in glacial till and Pennsylvanian limestone; diameter 8 feet, depth 60 feet. Measuring point, top of concrete rim around manhole, 4.50 feet below lsd. Highest water level 24.62 below lsd, Mar. 14, 1962; lowest 39.62 below lsd, Feb. 1, 1961. Records available: 1960-63. Mar. 25, 32.00; July 26, 34.95; Oct. 1, 38.06.

CHASE COUNTY

18-9-29cc. (C) Peak & Hatcher Co. Drilled, domestic well in Permian Bader Limestone and Easy Creek Shale; diameter 8 inches, depth 34 feet. Measuring point, top of casing, 0.30 foot above lsd. Highest water level 15.75 below lsd, Feb. 9, 1960; lowest 25.74 below lsd, Mar. 8, 1955. Records available: 1947-63. Feb. 6, 19.95; July 22, 23.59; Nov. 14, 24.66.

19-7-10da. (C) Herbert T. Drake. Dug, unused, water-table well in alluvium; diameter 42 inches, depth 24 feet, cribbed with rock. Measuring point, top of concrete curbing, 1.00 foot above lsd. Highest water level 3.19 below lsd, July 24, 1951; lowest 20.23 below lsd, Feb. 16, 1957. Records available: 1948-63. Feb. 6, 7.11; July 22, 10.01; Nov. 14, 14.04.

20-6-31bd. (C) B. S. Thompson. Drilled, unused, water-table well in Lower Permian Wreford Limestone;

diameter 6 inches, depth 43 feet. Measuring point, top of iron casing, 0.70 foot above lsd. Highest water level 14.20 below lsd, July 24, 1951; lowest 32.95 below lsd, Feb. 16, 1957. Records available: 1947-63. Feb. 6, 21.96; July 22, 22.42; Nov. 14, 25.12.

20-7-13cb. (C) Geo. W. Starkey. Dug, water-table domestic well in Lower Permian Fort Riley and Florence Limestone Members of Barneston Limestone; diameter 4 feet, depth 56 feet, cribbed with rock. Measuring point, top of concrete cover under pump, 0.60 foot above lsd. Highest water level 8.87 below lsd, Sept. 5, 1950; lowest 52.39 below lsd, July 6, 1953. Records available: 1947-63. Feb. 6, 15.05; July 22, 17.18.

CHEROKEE COUNTY

1. (C) W. L. Stiles. NE NW NE sec. 2, T 34 S, R 23 E. Dug, water-table domestic well in Middle Pennsylvanian Bluejacket Sandstone Member of the Krebs Formation (Cherokee Group); diameter 6 feet, depth 27 feet, cribbed with rock. Measuring point, top of opening in well curb, 0.80 foot above lsd. Highest water level 4.90 below lsd, June 5, 1957; lowest 20.75 below lsd, Dec. 27, 1963. Records available: 1942-45, 1948, 1950-58, 1960-63. Apr. 12, 12.48; Dec. 27, 20.75.

3. (C) Fleming Mine #3. SW sec. 19, T 32 S, R 24 E. Drilled, unused, artesian well in Lower Ordovician Roubidoux Formation; diameter 8 inches, depth 850 feet. Measuring point, crack in 4-inch coupling, 2.35 feet above lsd. Highest water level 196.53 below lsd, July 23, 1943; lowest 214.92 below lsd, Apr. 12, 1963. Records available: 1943, 1950-58, 1960-63. Apr. 12, 214.92; Nov. 6, 207.55.

32-25-6dad. (C) John P. Matter. Dug well in Dry Wood and Rowe coal beds of the Krebs Formation (Cherokee Group); diameter 5 feet, depth 25 feet, cribbed with rock. Measuring point, top of concrete slab in wood box, 0.50 foot above lsd. Highest water level 5.05 below lsd, May 6, 1960; lowest 19.45 below lsd, Aug. 3, 1954. Records available: 1951-58; 1960-63. Apr. 12, 11.66.

34-24-36bd. (C) City of Baxter Springs. Drilled, artesian municipal well in Roubidoux Formation; diameter 16 inches, depth 1,094 feet. Measuring point, top of casing, 1.80 feet above lsd. Highest water level 252.00 below lsd, Dec. 26, 1961; lowest 394.25 below lsd, July 11, 1956. Records available: 1956-58, 1960-63. Dec. 27, 358.00 (pump had been shut off about 1 hour before measurement was made).

CHEYENNE COUNTY

1-38-2cd. (MB) Paul O'Brien. Drilled, water-table irrigation well in alluvium; diameter 18 inches, depth 41 feet. Measuring point, top of hole in turbine base, 1.00 foot above lsd. Highest water level 21.37 below lsd, May 6, 1952; lowest 25.61 below lsd, Aug. 13, 1963. Records available: 1948-63.

Jan. 15	22.39	May 23	22.52	Oct. 15	23.70
Feb. 5	22.30	July 9	P	Nov. 4	23.49
Apr. 10	22.31	Aug. 13	25.61	Dec. 18	23.11

1-38-8dcc. (MB) H. O. Haines. Drilled, water-table irrigation well in alluvium; diameter 18 inches, depth 34 feet. Measuring point, hole in inside of turbine base, 1.00 foot above lsd. Highest water level 11.24 below lsd, Feb. 25, 1947; lowest 15.15 below lsd, May 12, 1959. Records available: 1946-63. Feb. 5, 12.70; May 23, 12.70; Aug. 13, 15.14; Nov. 4, 13.33.

CHEYENNE COUNTY—concluded

2-39-19ccc. (MB) A. C. Keller. Drilled, unused, water-table well in alluvium; diameter 4 inches, depth 23 feet. Measuring point, edge of casing, at land surface. Highest water level 13.68 below lsd, May 26, 1955; lowest dry, Aug. 6, 1959, Nov. 7, 1960, Jan. 4, July 18, 1961, Jan. 3, 1962. Records available: 1948-50, 1952-62. Measurement discontinued.

2-39-27bbb. (MB) G. W. Best. Drilled, unused, water-table well in alluvium; diameter 8 inches, depth 29 feet. Measuring point, top of board platform, 1.33 feet above lsd. Highest water level 14.99 below lsd, June 25, 1953; lowest 19.52 below lsd, Feb. 20, 1956. Records available: 1946-63. Feb. 5, 17.29; May 23, 18.04; Aug. 13, 18.69; Nov. 4, 18.00.

3-39-32bd. (MB) Clarence Yonkey. Drilled, water-table irrigation well in Pliocene Ogallala Formation; diameter 16 inches, depth 224 feet. Measuring point, hole in pump-head base, 0.80 foot above lsd. Highest water level 152.08 below lsd, Apr. 10, 1963; lowest 178.74 below lsd, July 15, 1960. Records available: 1960-63.

Jan. 15	152.61	July 9	P	Dec. 19	153.51
Apr. 10	152.08	Oct. 16	164.51		

3-40-9baa. (MB) P. G. Walter. Bored, water-table stock well in Ogallala Formation; diameter 5 inches. Measuring point, edge of casing, 0.20 foot above lsd. Highest water level 11.69 below lsd, Feb. 25, 1947; lowest 21.45 below lsd, Dec. 22, 1953. Records available: 1946-63. Feb. 5, 20.22; May 23, 20.51; Aug. 13, 20.71; Nov. 4, 20.54.

3-40-22aba. (MB) T. Holleman and others. Drilled, unused, water-table well in alluvium; diameter 5 inches, depth 19 feet. Measuring point, top of cement slab, 0.25 foot above lsd. Highest water level 10.02 below lsd, July 29, 1947; lowest 18.25 below lsd, Nov. 28, 1955. Records available: 1946-63. Feb. 5, 16.00; May 23, 15.47; Aug. 13, 16.68; Nov. 4, 16.17.

3-42-21bcc. (MB) Andrew Rueb. Drilled, water-table stock well in Ogallala Formation; diameter 5 inches, depth 220 feet. Measuring point, hole in base of pump, 0.80 foot above lsd. Highest water level 201.45 below lsd, Dec. 23, 1953; lowest 204.77 below lsd, May 23, 1963. Records available: 1953-63. Feb. 5, 202.73; May 23, 204.77; Aug. 13, 202.93; Nov. 4, 202.56.

3-42-22dad. (MB) F. F. Blair. Drilled, unused, water-table well in Ogallala Formation; diameter 5 inches, depth 162 feet. Measuring point, edge of 5-inch casing, 1.30 feet above lsd. Highest water level 137.85 below lsd, May 25, 1955; lowest 143.42 below lsd, Sept. 3, 1953. Records available: 1953-61, 1963. Feb. 5, 138.51; May 23, 138.52; Aug. 13, 138.51; Nov. 4, 138.49.

3-42-26cad. (MB) Henry Richers. Drilled, water-table domestic and stock well in Ogallala Formation; diameter 6 inches, depth 196 feet. Measuring point, edge of 6-inch casing, 0.80 foot above lsd. Highest water level 175.70 below lsd, Aug. 30, 1954; lowest 181.65 below lsd, June 29, 1953. Records available: 1953-61, 1963. Feb. 5, P; May 23, 176.79; Aug. 13, P; Nov. 4, P.

3-42-28dda. (MB) Clarence Raile. Drilled, water-table domestic and stock well in Ogallala Formation; diameter 5 inches, depth 159 feet. Measuring point, hole in base of pump, 0.30 foot above lsd. Highest water level 139.55 below lsd, Jan. 3, 1962; lowest 152.45 below lsd, Nov. 7, 1960. Records available: 1953-63. Feb. 5, P; May 23, P; Aug. 13, P; Nov. 4, P.

4-41-32ddb. (MB) Simon E. Matson. Drilled, unused, water-table well in Ogallala Formation; diameter 6 inches, depth 121 feet. Measuring point, top of casing, at land surface. Highest water level 102.75 below lsd, Aug. 12, 1958; lowest dry, Nov. 7, 1960, Aug. 13, Nov. 4, 1963. Records available: 1946-47, 1949-63. Feb. 5, 105.78; May 23, 105.39; Aug. 13, dry, Nov. 4, dry.

4-42-2ccc. (MB) Henry Lampe. Drilled, unused, water-table well in Ogallala Formation; diameter 5 inches, depth 190 feet. Measuring point, edge of 5-inch casing, 0.70 foot above lsd. Highest water level 176.66 below lsd, Sept. 2, 1953; lowest 179.26 below lsd, May 22, 1956. Records available: 1953-62. Measurement discontinued.

4-42-5aaa. (MB) W. E. Klie. Drilled, water-table domestic and stock well in Ogallala Formation; diameter 5 inches, depth 223 feet. Measuring point, top of concrete curb, 1.20 feet above lsd. Highest water level 190.90 below lsd, Sept. 2, 1953; lowest 195.88 below lsd, Aug. 13, 1963. Records available: 1953-61, 1963. Feb. 5, 192.99; May 23, P; Aug. 13, 195.88; Nov. 4, 194.70.

4-42-26ccb. (MB) Pete O'Brien. Drilled, water-table irrigation well in Ogallala Formation; diameter 24 inches, depth 56 feet. Measuring point, edge of steel casing, 0.50 foot above lsd. Highest water level 20.53 below lsd, Apr. 18, 1960; lowest dry, July 18, 1960. Records available: 1954-63. Feb. 5, 21.62; May 23, P; Aug. 13, P; Nov. 4, 22.13.

5-38-13cbd. (C) E. E. Retzer. Drilled, stock well in Ogallala Formation; diameter 5 inches, depth 91 feet. Measuring point, top west side of casing, 0.40 foot above lsd. Highest water level 55.54 below lsd, Oct. 16, 1958; lowest 57.19 below lsd, Jan. 15, 1963. Records available: 1954-63. Jan. 15, 57.19; Apr. 10, 57.04. Measurement discontinued.

CLARK COUNTY

6. (C) District school. NE NE sec. 7, T 35 S, R 21 W. Drilled, unused, water-table well in alluvium; diameter 6 inches, depth 33 feet. Measuring point, top south side of casing, at land surface. Highest water level 25.79 below lsd, July 29, Oct. 23, 1963; lowest 28.06 below lsd, July 23, 1958. Records available: 1940-43, 1950-63.

Jan. 16	26.05	July 29	25.79	Dec. 20	25.84
Apr. 24	26.26	Oct. 23	25.79		

10. (C) J. F. Folks Estate. SE SE sec. 24, T 32 S, R 23 W. Drilled, water-table stock well in deposits of Pleistocene age; diameter 6 inches, depth 23 feet. Measuring point since July 29, 1963, top south side of casing, 2.62 feet above lsd. Highest water level 12.82 below lsd, Jan. 21, 1959; lowest 17.63 below lsd, Sept. 27, 1946. Records available: 1940-47, 1954-63.

Jan. 16	15.62	July 29	16.37	Dec. 19	16.39
Apr. 24	15.80	Oct. 23	15.98		

30-23-6aa. (C) Arnold Houff. Drilled, water-table domestic and stock well in Ogallala Formation; diameter 6 inches, depth 160 feet. Measuring point, top of crack in pump, 1.40 feet above lsd. Highest water level 135.90 below lsd, Jan. 17, 1961; lowest 142.61 below lsd, Mar. 8, 1954. Records available: 1939, 1952-63.

Jan. 16	P	July 29	139.54	Dec. 19	139.49
Apr. 24	139.47	Oct. 23	139.17		

33-22-30cbc. (C) Katherine Klinger. Drilled, water-table irrigation well in deposits of Pleistocene age; diameter 18 inches, depth 168 feet. Measuring point, flap opening on west side of pump, 0.71 foot above lsd. Highest water level 12.38 below lsd, Jan. 16, 1963; lowest 29.85 below lsd, Apr. 18, 1962. Records available: 1961-63.

Jan. 16	12.38	July 29	18.04	Dec. 19	13.02
Apr. 24	P	Oct. 23	14.71		

CLOUD COUNTY

5-3-19bb. (MB) U.S.G.S. Jetted, water-table observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 39 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 15.40 below lsd, Aug. 1, 1951; lowest 22.43 below lsd, Mar. 20, 1957. Records available: 1950-63.

Jan. 8	20.60	May 15	20.10	Sept. 10	21.40
Apr. 3	18.40	July 15	20.90	Nov. 15	20.50

5-3-20dd. (MB) U.S.G.S. Jetted, water-table observation well in alluvium; diameter $\frac{3}{4}$ inch, depth 15 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 5.36 below lsd, July 27, 1950; lowest 11.86 below lsd, Feb. 19, 1957. Records available: 1950-63.

Jan. 8	10.30	May 16	10.80	Sept. 10	11.30
Apr. 3	10.20	July 15	11.50	Nov. 15	10.10

5-3-24cb. (MB) U.S.G.S. Jetted, water-table observation well in alluvium; diameter $\frac{3}{4}$ inch, depth 21 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 0.90 above lsd, July 15, 1963; lowest 7.29 below lsd, Jan. 12, 1956. Records available: 1950-63.

Jan. 8	1.20	May 15	3.30	Nov. 15	0
Apr. 3	3.20	July 15	+0.90		

5-4-11dd. (MB) U.S.G.S. Jetted, water-table observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 40 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 12.10 below lsd, Aug. 1, 1951; lowest 28.50 below lsd, Sept. 7, 1961. Records available: 1950-63.

Jan. 8	19.50	June 19	20.33	Sept. 11	20.80
Apr. 3	19.50	July 16	20.20	Nov. 14	20.30
May 16	19.80				

8-4-19cb. (MB) U.S.B.R. Bored, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 30 feet. Measuring point, top of pipe, 1.20 feet above lsd. Highest water level 16.62 below lsd, June 30, 1962; lowest 21.40 below lsd, Mar. 15, May 10, 1961. Records available: 1960-63. Mar. 20, 19.16; June 6, 19.73; Sept. 19, 20.48; Dec. 9, 20.76.

8-4-30cbc. (MB) U.S.B.R. Bored, water-table obser-

vation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 30 feet. Measuring point, top of pipe, 2.40 feet above lsd. Highest water level 16.40 below lsd, June 26, 1961; lowest 25.15 below lsd, Mar. 15, 1961. Records available: 1960-63. Mar. 20, 22.38; June 6, 23.26; Sept. 19, 24.55; Dec. 9, 24.58.

8-4-31ddd. (MB) U.S.B.R. Bored, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 30 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 12.94 below lsd, June 26, 1961; lowest 23.42 below lsd, Dec. 9, 1963. Records available: 1960-63. Mar. 20, 21.66; June 6, 22.18; Sept. 19, 23.20; Dec. 9, 23.42.

8-5-10bcb. (MB) U.S.B.R. Bored, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 33 feet. Measuring point, top of pipe, 1.60 feet above lsd. Highest water level 14.32 below lsd, Sept. 18, 1961; lowest 24.03 below lsd, May 14, 1960. Records available: 1960-63. Mar. 20, 20.20; June 6, 20.92; Sept. 19, 22.03; Dec. 9, 22.64.

8-5-13add. (MB) U.S.B.R. Bored, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 30 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 21.70 below lsd, May 14, 1960; lowest 27.78 below lsd, May 10, 1961. Records available: 1960-63. Mar. 20, 25.50; June 6, 25.78; Sept. 19, 26.58; Dec. 9, 27.12.

8-5-22bda. (MB) U.S.B.R. Bored, water-table observation well in alluvium; diameter $1\frac{1}{4}$ inches, depth 29 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 13.72 below lsd, Sept. 18, 1961; lowest 20.38 below lsd, Nov. 28, 1960. Records available: 1960-63. Mar. 20, 17.80; June 6, 18.58; Sept. 19, 20.20; Dec. 9, 20.37.

8-5-25aa. (MB) U.S.B.R. Bored, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 31 feet. Measuring point, top of pipe, 1.70 feet above lsd. Highest water level 16.85 below lsd, Sept. 18, 1961; lowest 23.22 below lsd, May 10, 1961. Records available: 1960-63. Mar. 20, 21.10; June 6, 21.77; Sept. 19, 22.80; Dec. 9, 22.99.

8-5-27ab. (MB) U.S.B.R. Bored, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 40 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 16.74 below lsd, Jan. 30, 1962; lowest 22.57 below lsd, May 14, 1960. Records available: 1960-63. Mar. 20, 17.56; June 6, 18.25; Sept. 19, 20.34; Dec. 9, 21.13.

COMANCHE COUNTY

1. (C) A. A. Carpenter. NE NW sec. 8, T 33 S, R 20 W. Drilled, unused, water-table well in deposits of Permian age; diameter 6 inches, depth 39 feet. Measuring point, top of concrete pump base, 1.00 foot above lsd. Highest water level 35.29 below lsd, Dec. 19, 1951; lowest 40.52 below lsd, June 20, 1941. Records available: 1940-63.

Jan. 16	35.47	July 29	35.59	Dec. 20	35.48
Apr. 24	36.73	Oct. 23	35.39		

3. (C) E. Deewall. SW NE sec. 19, T 31 S, R 18 W. Drilled stock well in Ogallala Formation; diameter 6 inches, depth 97 feet. Measuring point, top north side of casing below pump base, 1.40 feet above lsd. Highest water level 74.48 below lsd, Aug. 31, 1953; lowest 94.07 below lsd, June 8, 1945. Records available: 1940-47, 1953, 1955-63. Jan. 16, 74.88; July 29, 75.08; Oct. 23, 74.81.

CRAWFORD COUNTY

28-22-20cc. (C) City of Walnut. Drilled, artesian municipal well in Lower Ordovician Cotter Dolomite; diameter 7 inches, depth 1,015 feet. Measuring point, top of casing, 8.00 feet above lsd. Highest water level 188.00 below lsd, Feb. 5, 1957; lowest 206.00 below lsd, Nov. 5, 30, 1956. Records available: 1956-58. No measurement made in 1963.

29-25-5cd. (C) City of Arma. Drilled, artesian municipal well in Roubidoux Formation; diameter 13 3/4 inches, depth 1,175 feet. Measuring point, top of casing, at land surface. Highest water level 310.13 below lsd, Aug. 31, 1956; lowest 316.24 below lsd, Dec. 28, 1960. Records available: 1956-58, 1960. Measurement discontinued.

30-23-24dc. (C) Al Williams. Drilled, artesian domestic well in Mississippian limestone; diameter 6 inches, depth 707 feet. Measuring point, top of gas vent, 1.50 feet above lsd. Highest water level 218.00 below lsd, Dec. 1951; lowest 253.50 below lsd, Dec. 27, 1960. Records available: 1951, 1957-58, 1960-61, 1963. Apr. 11, 247.73.

DECATUR COUNTY

1-26-18dd. (C) Wyatt Wiggins. Drilled stock well in alluvium; diameter 5 inches, depth 59 feet. Measuring point, hole in southeast part of casing cap, 0.50 foot above lsd. Highest water level 26.02 below lsd, July 13, 1960; lowest 30.73 below lsd, Oct. 13, 1959. Records available: 1959-63.

Jan. 15	28.84	July 10	P	Dec. 17	P
Apr. 11	P	Oct. 14	P		

1-29-19bdd. (C) Byron McCartney. Drilled irrigation well in alluvium; diameter 18 inches, depth 52 feet. Measuring point, hole in north side of pump head base, 0.70 foot above lsd. Highest water level 10.07 below lsd, July 13, 1960; lowest 27.70 below lsd, July 15, 1959. Records available: 1959-63.

Jan. 15	11.60	July 10	P	Dec. 17	13.76
Apr. 11	10.88	Oct. 14	14.02		

2-29-24bc. (C) Owner unknown. Drilled, unused well in Ogallala Formation; diameter 5 inches, depth 126 feet. Measuring point, top east side of casing, 0.50 foot above lsd. Highest water level 96.92 below lsd, Oct. 10, 1962; lowest 100.37 below lsd, Nov. 22, 1954. Records available: 1954-63.

Jan. 16	97.39	July 10	97.36	Dec. 17	97.69
Apr. 11	97.31	Oct. 14	97.54		

3-29-12bb. (C) Warren White. Drilled irrigation well in alluvium; diameter 18 inches, depth 62 feet. Measuring point, top of casing under hole in southwest corner of pump head base, 0.50 foot above lsd. Highest water level 20.92 below lsd, July 13, 1960; lowest 28.92 below lsd, Oct. 14, 1963. Records available: 1959-63.

Jan. 15	26.20	July 10	P	Dec. 17	28.77
Apr. 11	24.94	Oct. 14	28.92		

4-26-8ddd. (C) Reo Harris. Drilled irrigation well in Ogallala Formation; diameter 16 inches, depth 76 feet.

Measuring point, hole in southwest corner of pump head base, 1.25 feet above lsd. Highest water level 28.18 below lsd, Apr. 13, 1960; lowest 31.16 below lsd, Oct. 13, 1959. Records available: 1959-63.

Jan. 15	28.82	July 11	29.73	Dec. 17	29.51
Apr. 11	29.09	Oct. 14	29.57		

4-29-16cd. (C) E. R. Anderson. Drilled, abandoned, water-table irrigation well in Ogallala Formation; diameter 5 inches, depth 180 feet. Measuring point, north side top of casing, 1.00 foot above lsd. Highest water level 129.57 below lsd, Oct. 15, 1963; lowest 135.63 below lsd, Apr. 13, 1960. Records available: 1960-63.

Jan. 15	129.68	July 10	130.61	Dec. 17	129.86
Apr. 11	129.64	Oct. 15	129.57		

DOUGLAS COUNTY

12-20-17ccb. (C) Frank D. Walters. Drilled, unused, water-table well in terrace deposits of Pleistocene age; diameter 10 inches, depth 53 feet. Measuring point, east side of hole in top of box, 3.00 feet above lsd. Highest water level 14.39 below lsd, Feb. 5, 1962; lowest 26.33 below lsd, Mar. 30, 1957. Records available: 1952-63.

Water Levels from Recorder Graph

Month	5	10	15	20	25	30
Jan.	18.64	18.67	18.80	18.83	18.92	19.05
Feb.	19.06	19.12	19.22	19.24	19.32	.....
Mar.	18.95	18.91	18.95	19.13	19.17	19.31
Apr.	19.37	19.46	19.47	19.58	19.68	19.76
May	19.80	19.85	19.91	20.00	19.85	19.70
June	19.82	19.99	20.12	.....	.....	20.35
July	20.44	20.63	.....	.....	.....	21.08
Aug.	21.17	21.27	21.38	21.47	21.58	21.64
Sept.	21.70	21.77	21.85	21.90	22.00	22.04
Oct.	22.08	22.13	22.13	22.28	22.34	22.35
Nov.	22.40	22.45	22.48	22.51	22.57	22.60
Dec.	22.63	22.66	22.70	22.73	22.75	22.82

12-20-29bba. (C) V. C. Fishel. Bored, observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 29 feet. Measuring point, inside edge at top of pipe, 0.60 foot above lsd. Highest water level 14.40 below lsd, May 23, 1961; lowest 20.84 below lsd, May 27, 1957. Records available: 1957-59, 1961, 1963. Dec. 26, 16.78.

13-19-21bb. (C) C. E. Banning. Drilled, artesian domestic and stock well in Upper Pennsylvanian Tonganoxie Sandstone Member of Stranger Formation; diameter 6 inches, depth 96 feet. Measuring point, top of casing cover plate, 3.10 feet below lsd. Highest water level 23.48 below lsd, May 20, 1952; lowest 41.99 below lsd, Jan 5, 1957. Records available: 1952-60, 1962-63. Feb. 5, 33.74.

15-20-11cda. (C) U.S.G.S. and K.G.S. Drilled, water-table observation well in Upper Pennsylvanian Ireland Sandstone Member of Lawrence Formation; diameter 1 1/4 inches, depth 182 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 42.31 below lsd, Mar. 29, 1962; lowest 50.54 below lsd, Jan. 30, 1958. Records available: 1956-63. Feb. 5, 44.83; July 19, 43.97.

15-21-4bcc. (C) U.S.G.S. and K.G.S. Drilled, water-table observation well in Ireland Sandstone Member of Lawrence Formation; diameter 5½ inches, depth 144 feet. Measuring point, top of well seal, 2.00 feet above lsd. Highest water level 13.68 below lsd, Mar. 29, 1962; lowest 29.04 below lsd, Feb. 26, 1957. Records available: 1956-63. Feb. 5, 24.05; July 19, 25.90.

EDWARDS COUNTY

10. (C) E. F. Lippoldt. SW SW sec. 22, T 23 S, R 19 W. Dug, unused, water-table well in Dakota Formation; diameter 4½ feet, depth 68 feet, cribbed with rock. Measuring point, top of hole in concrete cover, 0.60 foot above lsd. Highest water level 61.86 below lsd, June 21, 1960; lowest 68.20 below lsd, Mar. 13, 1946. Records available: 1944-63.

Jan. 17	P	July 30	62.43
Feb. 20	63.53	Oct. 24	63.77
Mar. 29	P	Dec. 19	63.42 Pm*
Apr. 25	64.05		

* Windmill pumping.

24-19-34ad. (1A) (C) U.S.G.S. Bored, water-table well in alluvium; diameter 1¼ inches, depth 30 feet. Measuring point, top of pipe, 2.43 feet above lsd. Highest water level 7.18 below lsd, Oct. 24, 1962; lowest 8.74 below lsd, July 30, 1963. Records available: 1961-63.

Jan. 17	7.85	Apr. 25	7.99	Oct. 24	7.55
Feb. 20	7.82	July 30	8.74	Dec. 19	8.41
Mar. 29	7.67				

25-16-31dal. (C) E. B. Mayhew. Drilled, unused well in Ogallala Formation; diameter 1½ inches, depth 42 feet. Measuring point, top south side of pipe, 0.80 foot above lsd. Highest water level 15.50 below lsd, Aug. 20, 1958; lowest 21.61 below lsd, Mar. 20, Apr. 9, 1957. Records available: 1957-63.

Jan. 17	16.77	Apr. 25	17.26	Oct. 24	18.23
Feb. 20	16.87	July 30	17.76	Dec. 19	18.18
Mar. 29	16.81				

ELLIS COUNTY

215. (C) A. H. Romine. NE NW sec. 7, T 11 S, R 16 W. Dug, water-table stock well in deposits of Pleistocene age; diameter 24 inches, depth 22 feet, cribbed with rock. Measuring point, top edge of platform, west side of pump base, 3.50 feet above lsd. Highest water level 9.07 below lsd, June 29, 1962; lowest 20.80 below lsd, Apr. 17, 1956. Records available: 1941-63. Mar. 19, 11.00; July 6, 12.24; Sept. 17, 14.20.

218. (C) W. W. Bemis. NE NE sec. 16, T 12 S, R 17 W. Dug, unused, water-table well in Upper Cretaceous Codell Sandstone Member of Carlile Shale; diameter 24 inches, depth 81 feet, cribbed with rock. Measuring point, top north side of hole in 2 x 8 cover, 0.50 foot above lsd. Highest water level 11.76 below lsd, July 23, 1951; lowest 58.71 below lsd, Mar. 30, 1957. Records available: 1941-63. Mar. 19, 35.46; June 6, 38.03; Sept. 17, 40.75.

14-16-17cb. (MB) J. M. Schippers. Dug, water-table stock well in alluvium; diameter 5 feet, depth 24 feet, cribbed with stone. Measuring point, top of board platform, 0.90 foot above lsd. Highest water level 15.22

below lsd, July 27, 1951; lowest 21.58 below lsd, Oct. 15, 1956. Records available: 1946-63. Mar. 19, 18.05; June 5, 18.75; Sept. 17, 19.15; Dec. 10, 19.25.

14-16-36bc. (MB) Tony Wagner. Dug, water-table stock well in alluvium; diameter 4 feet, depth 20 feet, cribbed with stone. Measuring point, top south edge of board platform, 1.50 feet above lsd. Highest water level 14.50 below lsd, Oct. 26, 1951; lowest 21.74 below lsd, May 10, 1947. Records available: 1946-52; 1955-63. Mar. 19, 18.79; June 5, 19.32; Sept. 17, 19.33; Dec. 10, 19.45.

14-20-32dd. (MB) U.S.G.S. Jetted, water-table observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 25 feet. Measuring point, top of pipe, 0.70 foot above lsd. Highest water level 20.13 below lsd, July 26, 1951; lowest 23.41 below lsd, Oct. 15, 1956. Records available: 1950-63. Mar. 19, 22.22; June 5, 22.17; Sept. 17, 20.70; Dec. 10, 20.47.

15-18-1bb. (MB) Mat Rohr. Dug, water-table stock and observation well in deposits of Pleistocene age; diameter 24 inches, depth 23 feet, cribbed with stone. Measuring point, top south edge of pump base, 0.50 foot above lsd. Highest water level 12.80 below lsd, June 13, 1960; lowest 28.22 below lsd, July 24, 1946. Records available: 1946-62. Measurement discontinued.

15-18-16bb. (MB) T. W. Wolf. Dug, water-table domestic and stock well in alluvium; diameter 40 inches, depth 13 feet, cribbed with stone. Measuring point, top east edge of curb, 2.45 feet above lsd. Highest water level 1.17 below lsd, May 15, 1951; lowest 10.28 below lsd, Oct. 15, 1956. Records available: 1946-63. Mar. 19, 5.98; June 5, 6.60; Sept. 17, 7.95; Dec. 10, 7.75.

15-18-27cb. (MB) U.S.G.S. Drilled, water-table observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 42 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 6.44 below lsd, July 11, 1957; lowest 12.90 below lsd, Oct. 15, 1956. Records available: 1949-63.

Mar. 19	10.42	July 25	12.02	Sept. 17	11.36
June 5	11.20	Aug. 7	11.85	Dec. 10	10.70

15-19-6aa. (MB) Aug. Leiker. Drilled, water-table observation well in gravel and terrace deposits of Pleistocene age; diameter 6 inches, depth 59 feet. Measuring point, top of concrete platform, 4.00 feet below lsd. Highest water level 50.86 below lsd, Sept. 10, 1952; lowest 57.26 below lsd, Aug. 6, 1958. Records available: 1946-52, 1954-63. Mar. 19, 54.47; June 5, 54.43; Sept. 17, 53.88; Dec. 10, 52.76.

15-19-9cc. (MB) U.S.G.S. Drilled, water-table observation well in gravel and terrace deposits of Pleistocene age; diameter 1¼ inches, depth 54 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 33.01 below lsd, Oct. 24, 1949; lowest dry, June 4, 1951. Records available: 1949-63.

Mar. 19	34.94	Sept. 10	34.80	Dec. 10	34.46
June 5	35.02	17	34.65		

15-19-15dd. (MB) U.S.G.S. Drilled, water-table observation well in gravel and terrace deposits of Pleistocene age; diameter 1¼ inches, depth 49 feet. Measuring point, top of pipe, 2.90 feet above lsd. Highest water level 23.37 below lsd, Oct. 2, 1962; lowest 26.28 below lsd, July 11, 1957. Records available: 1949-63. Mar. 19, 23.72; June 5, 23.80; Sept. 17, 24.02; Dec. 10, 23.80.

15-20-1bb. (MB) U.S.G.S. Jetted, water-table observation well in sand and terrace deposits of Pleistocene

ELLIS COUNTY—concluded

age; diameter $\frac{3}{4}$ inch, depth 24 feet. Measuring point, top of pipe, 1.70 feet above lsd. Highest water level 20.40 below lsd, Oct. 26, 1951; lowest dry, Mar. 15, June 4, July 26, 1951. Records available: 1950-53, 1955-63. Mar. 19, 21.22; June 5, 21.52; Sept. 17, 21.32; Dec. 10, 21.23.

ELLSWORTH COUNTY

16-6-35bdd. (MB) U.S.G.S. Jetted, water-table observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 26 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 15.18 below lsd, Oct. 1, 1951; lowest 24.31 below lsd, Aug. 20, 1951. Records available: 1950-63.

Mar. 19	21.04	June 5	21.42	Sept. 16	21.80
Apr. 29	21.26	July 23	21.65	Dec. 10	21.88

FINNEY COUNTY

1. (C) Mrs. A. M. Reid. NE NE sec. 9, T 24 S, R 33 W. Drilled, water-table observation well in alluvium; diameter 15 inches, depth 21 feet. Measuring point, top of casing, 0.40 foot above lsd. Highest water level 1.05 below lsd, June 29, 1951; lowest 19.34 below lsd, Sept. 30, 1963. Records available: 1936-63.

Water Levels from Recorder Graph

Month	5	10	15	20	25	30
Jan.	16.22	16.15	16.09	16.02	15.96	15.89
Feb.	15.81	15.79	15.76	15.69	15.66	.....
Mar.	15.64	15.60	15.56	15.53	15.58	15.64
Apr.	15.44	15.87	14.62	15.45	16.13	15.77
May	15.50	16.44	16.86	17.32	17.51	17.70
June	17.71	17.62	15.84	16.70	16.61	16.67
July	16.29	15.15	16.14	16.42	16.58	17.10
Aug.	16.90	16.80	17.56	18.08	17.59	18.25
Sept.	16.19	17.53	18.53	19.01	19.25	19.34
Oct.	19.25	19.20	19.12	19.13	17.91	17.83
Nov.	18.44	18.76	18.71	18.69	18.70	18.73
Dec.	18.75	18.77	18.76	18.70	18.65	18.60

5. (C) E. Alberta Reeves. SE NW NW sec. 19, T 21 S, R 32 W. Drilled, unused, water-table well in deposits of Pleistocene age; diameter 6 inches, depth 32 feet. Measuring point, hole in east side of pump base, 0.40 foot above lsd. Highest water level 15.30 below lsd, Aug. 14, 1951; lowest 27.91 below lsd, Dec. 6, 1963. Records available: 1939-63.

Jan. 7	26.26	May 13	26.92	Sept. 4	27.72
Feb. 4	26.32	June 18	27.06	Oct. 8	27.61
Mar. 19	26.28	July 10	26.99	Nov. 21	27.87
Apr. 10	26.53	Aug. 5	27.32	Dec. 6	27.91

6. (C) T. A. Meakel. NW SW SW sec. 36, T 21 S, R 29 W. Drilled, unused, water-table well in alluvium; diameter 8 inches, depth 21 feet. Measuring point, top east side of casing, 2.00 feet above lsd. Highest water level 11.72 below lsd, Feb. 27, 1952; lowest 20.82 below lsd, June 22, 1946. Records available: 1939-63.

Jan. 7	16.59	Apr. 2	16.32	July 8	16.36
Feb. 5	16.50	May 21	16.30	Oct. 8	16.29
Mar. 6	16.44				

8. (C) O. G. Reeve. SW NE SE sec. 13, T 25 S, R 33 W. Drilled, unused, water-table well in deposits of Pleistocene age; diameter 6 inches, depth 76 feet. Measuring point, top south side of casing, 1.50 feet above lsd. Highest water level 70.09 below lsd, Aug. 29, 1956; lowest 76.70 below lsd, Nov. 26, 1963. Records available: 1939-63. Feb. 20, 76.32; May 15, 76.38; Aug. 5, 76.60; Nov. 26, 76.70. Measurement discontinued.

13. (C) Edwin Wehrly. NE SE SW sec. 13, T 25 S, R 31 W. Dug, unused, water-table well in alluvium; diameter 24 inches, depth 9 feet. Measuring point, top east side of casing, 1.00 foot above lsd. Highest water level 0.76 above lsd, May 5, 1942; lowest 5.30 below lsd, Sept. 17, 1956. Records available: 1939-63.

Jan. 7	4.27	May 21	4.46	Sept. 23	4.63
Feb. 5	4.16	June 18	4.17	Oct. 8	4.70
Mar. 6	3.94	July 8	4.10	Nov. 26	4.64
Apr. 2	4.06	Aug. 5	4.55	Dec. 13	4.52

26. (C) Garden City Experiment Station. SW NE SE sec. 3, T 24 S, R 32 W. Drilled, unused, water-table well in deposits of Pleistocene age; diameter 26 inches, depth 185 feet. Measuring point, top of casing, at land surface. Highest water level 63.85 below lsd, Oct. 29, 1951; lowest 83.00 below lsd, Aug. 5, 1963. Records available: 1934, 1939-63.

Jan. 7	79.28	May 21	80.83	Sept. 23	81.20
Feb. 5	76.64	June 18	80.83	Oct. 23	78.17
Mar. 6	79.71	July 8	81.29	Nov. 27	77.96
Apr. 2	80.08	Aug. 5	83.00	Dec. 13	78.36

1002. (C) U.S. Army. SW sec. 27, T 24 S, R 31 W. Drilled, water-table industrial well in Ogallala Formation; diameter 16 inches, depth 295 feet. Measuring point, top west side of casing, 0.80 foot above lsd. Highest water level 110.26 below lsd, Nov. 9, 1953; lowest 128.57 below lsd, May 21, 1963. Records available: 1942-63.

Jan. 7	115.74	May 21	128.57	Oct. 23	124.01
Feb. 5	115.22	June 18	116.95	Nov. 26	124.70
Mar. 6	120.40	July 8	119.61	Dec. 13	117.72
Apr. 2	116.69	Sept. 23	126.20		

21-30-5bb. (C) F. T. Carl. Drilled, water-table domestic and stock well in Ogallala Formation; diameter 6 inches, depth 44 feet. Measuring point, top east edge of casing, 0.10 foot above lsd. Highest water level 25.20 below lsd, Apr. 29, 1960; lowest 29.07 below lsd, July 18, 1957. Records available: 1951-63. Feb. 5, 26.81; May 21, P; Aug. 5, P; Nov. 26, 27.74.

22-33-36aa. (C) George H. Hahn. Drilled, water-table irrigation well in Ogallala Formation; diameter 16 inches, depth 190 feet. Measuring point, 1 inch hole in steel cap top casing, 3.50 feet above lsd. Highest water level 26.13 below lsd, Oct. 8, 1963; lowest 77.53 below lsd, Aug. 5, 1963. Records available: 1963.

May 15	45.70	Sept. 4	45.92
June 5	30.37	Oct. 8	26.13
July 10	30.32	Nov. 21	47.26
Aug. 5	77.53*	Dec. 6	32.60

* Well pumping 45 feet east.

22-34-26ad. (C) Owner unknown. Drilled, unused domestic and stock well in Ogallala Formation; diameter 5 inches, depth 163 feet. Measuring point, top edge of 3 x 3-inch wood clamp, 0.90 foot above lsd. Highest water level 49.43 below lsd, Mar. 31, 1959; lowest 77.56 below lsd, Sept. 3, 1963. Records available: 1957-63.

Jan. 18	P	June 6	74.56	Dec. 3	73.00
Mar. 27	64.35	Sept. 3	77.56		

23-27-12cc. (C) C. R. Rixon. Drilled, unused well in Ogallala Formation; diameter 6 inches, depth 72 feet. Measuring point since Oct. 8, 1963, 1-inch board on top of concrete block, 0.60 foot above lsd. Highest water level 61.98 below lsd, Nov. 10, 1961; lowest 68.49 below lsd, Oct. 2, 1941. Records available: 1939-42, 1952-63. Jan. 7, 62.60; Apr. 2, 62.52; Oct. 8, 62.33.

23-33-28dc. (C) Wendeline Richmeier. Drilled, artesian irrigation well in Ogallala Formation; diameter 16 inches, depth 310 feet. Measuring point, top of hole in base of pump, at land surface. Highest water level 42.70 below lsd, Oct. 25, 1940; lowest 74.60 below lsd, Dec. 3, 1963. Records available: 1940, 1959-63. Mar. 27, P; June 18, 62.72; Sept. 23, P; Dec. 3, 74.60.

25-32-31dd. (C) Harry Lightner. Drilled, artesian irrigation well in Ogallala Formation; diameter 16 inches, depth 140 feet. Measuring point, lower east edge of sloping pipe, 1.12 feet above lsd. Highest water level 63.35 below lsd, Jan. 19, 1959; lowest 67.83 below lsd, Sept. 27, 1960. Records available: 1958-63. Jan. 2, 65.64.

26-31-1dd. (C) Mearl Hutton. Drilled, artesian irrigation well in Ogallala Formation; diameter 16 inches, depth 169 feet. Measuring point, west outside edge of sloping pipe, 1.00 foot above lsd. Highest water level 71.57 below lsd, Jan. 30, 1962; lowest 73.63 below lsd, Jan. 9, 1963. Records available: 1959-63. Jan. 9, 73.63.

26-32-31cc. (C) Cecil Snodgrass. Drilled, artesian irrigation well in Ogallala Formation; diameter 16 inches, depth (remeasured 1963) 205 feet. Measuring point, top hole in northeast side of steel pump base, 1.30 feet above lsd. Highest water level 109.17 below lsd, Jan. 19, 1959; lowest 112.62 below lsd, Aug. 4, 1959. Records available: 1958-59, 1961-63. Feb. 20, 111.13. Measurement discontinued.

26-33-17ac. (C) William F. Stone. Drilled, artesian irrigation well in Ogallala Formation; diameter 16 inches, depth 200 feet. Measuring point, hole in east side of pump base, 1.50 feet above lsd. Highest water level 60.78 below lsd, Jan. 8, 1960; lowest 61.92 below lsd, Jan. 12, 1962. Records available: 1960-63. Jan. 2, 60.80.

FORD COUNTY

8. (C) F. H. Diehl. NW NW sec. 34, T 26 S, R 25 W. Drilled, water-table irrigation well in alluvium; diameter 20 inches, depth 20 feet. Measuring point, top of casing, 0.80 foot above lsd. Highest water level 0.86 below lsd, May 13, 1942; lowest 8.92 below lsd, Aug. 21, 1963. Records available: 1938-63.

Jan. 17	7.01	May 20	7.72	Sept. 23	8.50
Feb. 20	6.92	June 25	P	Oct. 24	8.33
Mar. 27	6.92	July 30	P	Dec. 19	8.09
Apr. 25	P	Aug. 21	8.92		

96a. (C) Henry Hattrup. SE NE sec. 23, T 26 S, R 21 W. Driven, unused well in alluvium; diameter 1¼ inches, depth 12 feet. Measuring point, 0.60 foot above lsd. Highest water level 6.49 below lsd, Apr. 19, 1960; lowest 10.07 below lsd, Jan. 21, 1957. Records available: 1956-63.

Jan. 17	7.30	July 30	7.85	Dec. 19	8.39
Apr. 24	7.47	Oct. 24	8.21		

1002. (C) William C. Knoy. Cen. SE sec. 12, T 26 S, R 26 W. Drilled, water-table stock and irrigation well in Ogallala Formation; diameter 16 inches, depth 261 feet. Measuring point, top north side of casing, 1.09 feet above lsd. Highest water level 98.18 below lsd, Jan. 22, 1951; lowest 185.18 below lsd, Nov. 26, 1942. Records available: 1942-63.

Jan. 17	104.37	Apr. 25	105.64	Oct. 24	108.36
Feb. 20	104.04	July 30	107.05	Dec. 19	104.57
Mar. 27	105.36				

25-22-20aa. (C) Mary Arends. Drilled cemetery well in Ogallala Formation; diameter 5½ inches, depth 72 feet. Measuring point, hole in pump base under pump handle, 0.20 foot above lsd. Highest water level 63.44 below lsd, Apr. 17, 1961; lowest 67.75 below lsd, Oct. 18, 1953. Records available: 1939, 1951-63.

Jan. 17	64.36	July 30	64.38	Dec. 19	64.26
Apr. 25	64.31	Oct. 24	64.32		

27-24-3da. (C) Owner unknown. Drilled, water-table stock well in alluvium; diameter 5 inches, depth 90 feet. Measuring point, top of pump base, 1.95 feet above lsd. Highest water level 12.41 below lsd, Nov. 22, 1963; lowest 13.24 below lsd, Aug. 21, 1963. Records available: 1963.

July 3	12.70	Sept. 23	12.81	Nov. 22	12.41
30	12.99	Oct. 23	12.90	Dec. 19	12.79
Aug. 21	13.24				

29-21-5bb. (C) E. R. and Maynard L. Estes. Drilled irrigation well in Ogallala Formation; diameter 16 inches, depth 131 feet. Measuring point, flap in north side of pump base, 0.50 foot above lsd. Highest water level 79.50 below lsd, May 1956; lowest 97.19 below lsd, Oct. 23, 1963. Records available: 1956, 1959-63.

Jan. 16	95.53	July 29	P	Dec. 19	96.30
Apr. 24	P	Oct. 23	97.19		

GOVE COUNTY

11-27-16aa. (C) M. E. Neher. Drilled, unused well in Ogallala Formation; diameter 5 inches, depth 108 feet. Measuring point, base of pump, at land surface. Highest water level 93.20 below lsd, July 8, Dec. 19, 1963; low-

GOVE COUNTY—concluded

est 95.40 below lsd, Aug. 27, 1956. Records available: 1952-63.

Jan. 14	93.34	July 8	93.20	Dec. 19	93.20
Apr. 19	93.31	Oct. 17	93.21		

11-29-9ab. (C) Leo Boxberger. Drilled stock well in Ogallala Formation; diameter 5 inches, depth 131 feet. Measuring point, hole in west side of pump base, 1.00 foot above lsd. Highest water level 123.79 below lsd, July 18, 1962; lowest 126.43 below lsd, July 13, 1961. Records available: 1959-62. Measurement discontinued.

11-31-10aa. (C) Thos. P. Johnstone. Drilled, unused well in Ogallala Formation; diameter 5 inches, depth 99 feet. Measuring point, top of casing, 0.80 foot above lsd. Highest water level 88.69 below lsd, Aug. 11, 1952; lowest 91.52 below lsd, May 13, 1957. Records available: 1952-63.

Jan. 14	90.49	July 8	90.67	Dec. 19	91.50
Apr. 19	90.55	Oct. 17	91.21		

13-30-33bb. (C) Richard Benson. Dug, domestic and stock well in Upper Cretaceous Niobrara Chalk; diameter 60 inches, depth 58 feet. Measuring point, bottom of south side of pump base, 0.50 foot above lsd. Highest water level 20.38 below lsd, Apr. 13, 1959; lowest 29.25 below lsd, Jan. 14, 1963. Records available: 1959-63.

Jan. 14	29.25	July 8	28.58	Dec. 19	28.96
Apr. 9	P	Oct. 17	28.16		

GRAHAM COUNTY

6-23-12ccb. (C) H. Hauser. Drilled stock well in Ogallala Formation; diameter 5 inches, depth 69 feet. Measuring point, top of casing, 1.30 feet above lsd. Highest water level 60.60 below lsd, Oct. 17, 1961; lowest 63.97 below lsd, Feb. 12, 1957. Records available: 1952-63.

Jan. 16	61.28	July 11	61.66	Dec. 17	62.01
Apr. 12	61.61	Oct. 14	61.66		

6-25-28cb. (C) Henry Klein. Drilled, water-table irrigation well in Ogallala Formation, diameter 12 inches, depth 180 feet. Measuring point, lower lip of pipe in pump base, 0.75 foot above lsd. Highest water level 96.38 below lsd, Sept. 4, 1962; lowest 98.90 below lsd, Dec. 19, 1963. Records available: 1962-63.

Jan. 16	97.13	July 11	P	Dec. 19	98.90
Apr. 12	97.17	Oct. 14	97.60		

7-23-35ddd. (C) Chas. Stuchlik. Drilled, unused well in Dakota and Ogallala formations; diameter 8 inches, depth 700-800 feet. Measuring point, top of casing, 0.50 foot above lsd. Highest water level 31.72 below lsd, Oct. 10, 1962; lowest 46.12 below lsd, Nov. 26, 1956. Records available: 1952-63.

Jan. 16	32.57	July 11	35.28	Dec. 17	33.50
Apr. 12	34.03	Oct. 10	32.60		

7-23-36ccd. (C) Hill City Cemetery. Dug, unused well in Ogallala Formation; diameter 42 inches, depth 54 feet. Measuring point, base of pump, 0.70 foot above lsd. Highest water level 23.13 below lsd, July 16, 1962; lowest 48.18 below lsd, May 16, 1956. Records available: 1952-63.

Jan. 16	26.29	July 11	27.66	Dec. 17	27.61
Apr. 12	27.49	Oct. 14	25.70		

8-22-3dcd. (C) F. O. Dunwoody. Drilled, unused stock well in terrace deposits of Pleistocene age; diameter 8 inches, depth 23 feet. Measuring point, top west side of casing, 3.00 feet above lsd. Highest water level 11.19 below lsd, July 16, 1962; lowest 17.74 below lsd, Nov. 26, 1956. Records available: 1952-63. Measurement discontinued.

Jan. 16	12.66	July 11	13.66	Dec. 17	14.05
Apr. 9	12.41	Oct. 14	13.39		

10-23-14bcc. (C) J. Diebolt. Drilled, unused well in Ogallala Formation; diameter 4 inches, depth 44 feet. Measuring point, hole in west side of pump base, 0.15 foot above lsd. Highest water level 25.21 below lsd, Apr. 13, 1962; lowest 32.90 below lsd, Aug. 27, 1956. Records available: 1952-63.

Jan. 14	25.95	July 8	26.77	Dec. 19	P
Apr. 9	25.83	Oct. 17	27.52		

GRANT COUNTY

5. (C) C. L. Jury. NE SE sec. 4, T 27 S, R 37 W. Drilled, unused, water-table well in deposits of Pleistocene age; diameter 6 inches, depth 139 feet. Measuring point, top of casing, 0.40 foot above lsd. Highest water level 65.53 below lsd, May 9, Nov. 28, 1951; lowest 90.14 below lsd, Aug. 7, 1963. Records available: 1941-63. Feb. 6, 80.80; May 14, 89.42; Aug. 7, 90.14; Nov. 22, 88.31.

400. (C) State of Kansas. SE NE sec. 6, T 28 S, R 38 W. Drilled, water-table observation well in deposits of Pleistocene age, diameter 12 inches, depth 78 feet. Measuring point, top south side of casing, 0.20 foot above lsd. Highest water level 52.70 below lsd, Feb. 28, 1945; lowest 73.96 below lsd, Nov. 25, 1963. Records available: 1944-63.

Water Levels from Recorder Graph

Month	5	10	15	20	25	30
Jan.	71.44	71.45	71.43	71.29	71.18	71.09
Feb.	71.00	70.95	70.91	70.90	70.97	.....
Mar.	71.21	71.35	71.40	71.49	71.56	71.61
Apr.	71.68	71.79	71.89	72.01	72.14	72.28
May	72.41	72.51	72.70	72.79	72.86	72.91
June	72.82	72.91	72.89	.....	.....	.....
July	.....	.....	.....	.....	.....	.....
Aug.	.....	73.28	73.37	73.49	73.59	73.66
Sept.	73.72	73.78	73.83	73.87	73.80	73.78
Oct.	73.79	73.84	73.83	73.85	73.90	73.86
Nov.	73.84	73.89	73.94	73.94	73.96	73.84
Dec.	73.66	73.54	73.25	72.91	72.62	72.40

27-35-16cb. (C) Craig Howard. Drilled, water-table stock well in deposits of Pleistocene age; diameter 6 inches, depth 183 feet. Measuring point, top of casing,

1.00 foot above lsd. Highest water level 173.94 below lsd, Nov. 18, 1953; lowest dry, Nov. 22, 1963. Records available: 1941-42, 1951-63. Jan. 22, 180.76; Feb. 6, 181.17; May 15, 181.45; Nov. 22, dry.

27-38-15bb. (C) Mrs. Charles Andes. Drilled, irrigation well in deposits of Pleistocene age, Dakota Formation, and Lower Cretaceous Cheyenne Sandstone; diameter 16 inches, depth 479 feet. Measuring point, outside edge of bolt hole at top of pump, 0.50 foot above lsd. Highest water level 97.15 below lsd, Jan. 15, 1958; lowest 125.26 below lsd, Aug. 7, 1963. Records available: 1958-63. Jan. 22, 112.62; Feb. 6, 122.91; May 14, P; Aug. 7, 125.26; Nov. 22, 124.82.

27-38-23cbl. (C) L. F. Hohner. Drilled, unused, water-table well in deposits of Pleistocene age; diameter 16 inches, depth 235 feet. Measuring point, top east side of casing, 0.80 foot above lsd. Highest water level 41.25 below lsd, Mar. 9, 1943; lowest 132.13 below lsd, May 15, 1963. Records available: 1943, 1955, 1958-63.

Jan. 2	95.66	May 5	132.13Pc*
22	85.43	June 4	102.46
Feb. 6	108.11Pc*	Sept. 11	109.29
Mar. 11	99.05	Dec. 23	100.40
Apr. 3	101.13		

* Well pumping 30 feet north.

27-38-32bc. (C) G. M. Coffey. Drilled, unused, water-table well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 258 feet. Measuring point, top of south side of casing, 2.00 feet above lsd. Highest water level 49.66 below lsd, Nov. 29, 1940; lowest 115.58 below lsd, Aug. 10, 1963. Records available: 1940, 1958-63.

Water Levels from Recorder Graph

Month	5	10	15	20	25	30
Jan.	99.15	96.74	93.78	93.12	92.70	92.34
Feb.	91.97	91.80	91.83	92.35	92.93	.....
Mar.	96.87	98.58	98.24	100.26	100.50	103.91
Apr.	104.83	108.70	108.00	110.91	111.50	106.30
May	110.75	111.15	108.61	108.46	104.87	103.17
June	100.24	98.59	100.84	97.90	97.00	98.40
July	102.10	106.88	101.94	111.00	111.97	110.47
Aug.	112.66	115.58	115.22	111.32	111.05	111.10
Sept.	110.65	110.40	108.88	105.03	106.58	106.80
Oct.	113.60	110.40	106.65	107.28	107.44	109.15
Nov.	110.28	111.91	111.70	111.75	108.84	109.60
Dec.	108.90	106.59	103.28	102.17	101.60	101.01

28-35-31cdl. (C) Magnolia Petroleum Co. Drilled, water-table industrial well in deposits of Pliocene and Pleistocene age; diameter 12-18 inches, depth 314 feet. Measuring point, hole in south side of pump base, 1.60 feet above lsd. Highest water level 213.40 below lsd, May 20, 1948; lowest 246.94 below lsd, Nov. 16, 1962. Records available: 1948, 1953, 1956, 1958-63. Feb. 6, 228.72; May 14, 234.10; Aug. 12, P; Nov. 22, P.

28-38-4cc. (C) Herman Cockerham. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 15½ inches, depth 285 feet. Measuring point, top of angle iron on southeast side of pump, 2.40 feet above lsd. Highest water level 42.08 below lsd, July 24, 1942; lowest 112.40 below lsd, Nov. 13, 1962. Records available: 1942, 1958-60, 1962-63.

1942		1962			
July 24	42.08	Sept. 6	104.50	Mar. 20	P
1958		Oct. 11	106.43	Apr. 22	P
Jan. 15	91.55	Nov. 1	106.60	May 21	P
1959		13	112.40	June 27	104.10
Jan. 27	69.45	Dec. 6	103.60	July 5	P
Oct. 27	67.33	1963		31	P
1960		Jan. 3	105.95	Sept. 6	P
Jan. 25	67.62	22	78.90	Oct. 16	P
Mar. 21	60.92	Feb. 14	81.99	Nov. 19	85.40
				Dec. 24	70.78

28-38-7bb. (C) Mrs. Dellia Pinegar. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 284 feet. Measuring point, lower edge of cutout in north side of pump base, 0.70 foot above lsd. Highest water level 82.36 below lsd, Mar. 21, 1960; lowest 155.48 below lsd, Aug. 7, 1963. Records available: 1958-63.

Jan. 3	123.33	May 15	P	Sept. 6	128.30
22	100.90	21	142.20	Oct. 16	P
Feb. 6	99.74	June 17	120.05	Nov. 19	P
14	102.69	July 5	122.63	22	P
Mar. 20	P	31	P	Dec. 23	114.45
Apr. 22	P	Aug. 7	155.48	24	115.26

28-38-12bc. (C) David Sullivan. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 360 feet. Measuring point, lower edge of north side of pump base, 2.00 feet above lsd. Highest water level 54.60 below lsd, Oct. 26, 1959; lowest 121.12 below lsd, Sept. 6, 1963. Records available: 1948, 1959-60, 1962-63.

1948		1962			
Sept. 23	90.00	Sept. 6	114.26	Feb. 14	70.63
1959		20	95.94	Mar. 20	75.95
Aug. 25	77.58	Oct. 11	107.97	Apr. 22	P
Oct. 26	54.60	Nov. 1	76.70	May 21	P
Dec. 31	55.20	13	80.00	July 5	P
		Dec. 6	P	31	P
1960		1963		Sept. 6	121.12
Jan. 26	51.73	Jan. 3	P	Oct. 16	P
Mar. 30	48.59	22	68.28	Nov. 19	P

28-38-20cdl. (C) Lyle Morris. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 352 feet. Measuring point, hole in pump base, 1.00 foot above lsd. Highest water level 82.61 below lsd, Mar. 30, 1960; lowest 162.90 below lsd, Nov. 19, 1963. Records available: 1958-60, 1962-63.

1958					
Jan. 17	118.98	Oct. 11	134.54	May 21	P
1959		Nov. 1	114.30	June 17	136.40
Jan. 31	96.09	Dec. 6	122.70	July 5	136.41
1960				31	P
Jan. 25	85.58	Jan. 3	P	Sept. 6	P
Mar. 30	82.61	22	102.70	Oct. 16	P
		Feb. 14	97.42	Nov. 19	162.90
1962		Mar. 20	P	Dec. 24	119.80
Sept. 6	144.50	Apr. 22	P		
20	P				

GRANT COUNTY—concluded

28-38-27ca. (C) W. A. Leigh. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 418 feet. Measuring point, lower edge of cutout on north side of pump, 0.70 foot above lsd. Highest water level 81.74 below lsd, Mar. 30, 1960; lowest 195.33 below lsd, Apr. 22, 1963. Records available: 1958-60, 1962-63.

1958					
Jan. 15	125.10	Oct. 11	138.50	Apr. 22	195.33
		Nov. 1	123.60	May 21	188.75
1959		Dec. 6	139.00	June 17	152.95
Oct. 22	97.80			July 5	P
		1963		31	P
1960		Jan. 3	113.21	Sept. 6	P
Jan. 26	84.12			Oct. 16	P
Mar. 30	81.74	Feb. 14	98.35	Nov. 19	191.12
		Mar. 20	137.95		
1962					
Sept. 7	150.02				
20	P				

28-38-31db. (C) J. T. Klepper. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 428 feet. Measuring point, hole in base of pump, 0.30 foot above lsd. Highest water level 76.28 below lsd, Mar. 30, 1960; lowest 107.05 below lsd, Dec. 24, 1963. Records available: 1959-60, 1962-63.

1959					
Oct. 27	83.20	Nov. 13	101.70	May 21	P
		Dec. 6	P	June 17	P
1960				July 5	102.84
Jan. 26	78.84	1963		31	P
Mar. 30	76.28	Jan. 3	90.20	Sept. 6	P
		22	92.60	Oct. 16	105.50
1962		Feb. 14	91.06	Nov. 19	P
Sept. 7	102.01	Mar. 20	P	Dec. 24	107.05
20	99.65	Apr. 22	P		
Oct. 11	P				
Nov. 1	P				

28-38-32dcc. (C) Stanolind Oil and Gas Co. Drilled, water-table observation well in deposits of Pliocene and Pleistocene age and Cheyenne Sandstone; diameter 2 inches, depth 520 feet. Measuring point, top of 2-inch opening in T-joint on north side, 1.70 feet above lsd. Highest water level 82.67 below lsd, Feb. 7, 1962; lowest 177.17 below lsd, Aug. 7, 1963. Records available: 1961-63.

1961				1963	
Mar. 1	97.97	May 14	138.20	Feb. 6	96.74
Aug. 9	136.36	Aug. 8	145.97	May 15	147.44
Nov. 8	102.45	Nov. 14	133.10	Aug. 7	177.17
		Feb. 6	96.74	Nov. 22	157.47
1962					
Feb. 7	82.67				

28-38-35bc. (C) Peter E. Wiebe Estate. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 382 feet. Measuring point, top hole in south side of steel pump base, 1.50 feet above lsd. Highest water level 50.00* be-

low lsd, April 1946; lowest 158.55 below lsd, Sept. 6, 1963. Records available: 1946, 1958-60, 1962-63.

1946					
Apr.	50.00*	Mar. 30	71.50	Feb. 14	85.75
				Mar. 20	P
1958		1962		Apr. 22	P
Sept. 16	120.35	Sept. 7	127.65	May 21	P
Oct. 21	86.06	20	134.46	June 17	117.50
Nov. 21	86.25	Oct. 11	112.25	July 5	P
		Nov. 1	116.20	31	P
1959					
Jan. 28	70.85	13	P		
Oct. 27	85.08	Dec. 6	P	Sept. 6	158.55
				Oct. 16	140.30
1960		1963		Nov. 19	152.28
Jan. 26	74.05	Jan. 3	95.34	Dec. 24	109.46
		22	89.40		

* Measurement reported by owner.

29-37-8cb. (C) Dan C. Sullivan. Drilled, water-table irrigation well in deposits of Pleistocene age; diameter 16 inches, depth 300 feet. Measuring point, hole in south-east side of pump, 0.65 foot above lsd. Highest water level 65.50 below lsd, Apr. 1, 1960; lowest 139.28 below lsd, Sept. 6, 1963. Records available: 1959-60, 1962-63.

1959					
Feb. 6	68.04	Oct. 11	117.13	Mar. 20	105.13
Oct. 26	80.36	Nov. 1	P	Apr. 22	138.63
		13	121.35	May 21	P
1960		Dec. 6	114.85	July 31	P
Jan. 27	69.86			Sept. 6	139.28
Apr. 1	65.50	1963		Oct. 16	133.05
		Jan. 3	103.00	Nov. 19	P
1962		22	90.38	Dec. 24	115.95
Sept. 6	128.69	Feb. 14	89.34		
20	112.37				

29-37-22aa. (C) Earl Stein. Drilled, water-table irrigation well in deposits of Pleistocene age; diameter 16 to 12 inches, depth 280 feet. Measuring point, lower edge cutout in south side of pump, 1.30 feet above lsd. Highest water level 35.00* below lsd in 1944; lowest 138.35 below lsd, May 21, 1963. Records available: 1944, 1959-60, 1962-63.

1944					
1944	35.00*	20	104.15	May 21	138.35
		Oct. 11	103.76	June 17	120.15
1959		Nov. 1	P	July 5	105.37
Feb. 27	57.35	Dec. 6	P	31	123.30
Oct. 23	72.32			Sept. 6	133.15
		1963		Oct. 16	126.90
1960		Jan. 3	91.88	Nov. 19	P
Jan. 27	59.87	22	81.87	Dec. 24	106.70
Mar. 31	55.05	Feb. 14	80.20		
		Mar. 20	P		
1962		Apr. 22	122.25		
Sept. 6	122.63				

* Measurement reported by owner.

29-37-29bb. (C) Eugene F. Swindler. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 380 feet. Measuring point, hole in pump base, 2.29 feet above lsd. Highest water level 104.21 below lsd, Mar. 31, 1960; lowest 178.09 below lsd, Sept. 6, 1953. Records available: 1953, 1959-60, 1962-63.

1953					
Oct. 5	112.00	Oct. 11	147.51	Apr. 22	P
1959		Nov. 1	P	May 21	P
Oct. 26	115.16	13	150.71	June 17	153.81
1960		Dec. 6	144.91	July 5	P
Jan. 27	107.69	1963		31	157.61
Mar. 31	104.21	Jan. 3	132.83	Sept. 6	178.09
		22	126.45	Oct. 16	167.65
1962		Feb. 14	133.89	Nov. 19	165.51
Sept. 6	159.90	Mar. 20	P	Dec. 24	146.36
20	141.10				

29-37-32ccl. (C) Jesse J. Ford. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 351 feet. Measuring point, hole in north side pump base, 2.25 feet above lsd. Highest water level 96.00 below lsd, June 12, 1951; lowest 160.55 below lsd, Nov. 19, 1963. Records available: 1951, 1959-60, 1962-63.

1951					
June 12	96.00	Nov. 13	127.95	May 21	P
1959		Dec. 6	129.99	June 17	143.40
Feb. 5	103.48	1963		July 5	141.70
1960		Jan. 3	133.14	31	P
Mar. 31	103.05	22	120.54	Sept. 6	P
		Feb. 14	127.08	Oct. 16	P
1962		Mar. 20	P	Nov. 19	160.55
Sept. 6	134.70	Apr. 22	P	Dec. 24	131.95
Oct. 11	P				
Nov. 1	131.55				

29-38-5acb. (C) Stanolind Oil and Gas Co. Drilled, water-table observation well in deposits of Pliocene and Pleistocene age; diameter 2 inches, depth 420 feet. Measuring point, bottom of 2-inch hole on north side, 1.85 feet above lsd. Highest water level 87.08 below lsd, Feb. 7, 1962; lowest 175.40 below lsd, May 15, 1963. Records available: 1961-63.

1961		1962		1963	
Mar. 1	104.03	Feb. 7	87.08	Feb. 6	99.63
Aug. 9	155.91	May 14	154.97	May 15	175.40
Nov. 8	109.15	Aug. 8	155.19	Aug. 7	164.70
		Nov. 14	144.26	Nov. 22	163.69

29-38-8cc. (C) James T. Klepper. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 487 feet. Measuring point, lower edge of cutout in north side of pump, 0.70 foot above lsd. Highest water level 87.84 below lsd, Apr. 1, 1960; lowest 161.20 below lsd, Nov. 19, 1963. Records available: 1958-60, 1962-63.

1958					
Jan. 29	101.45	Oct. 11	P	Apr. 22	P
1959		Nov. 1	P	May 21	P
Nov. 28	107.14	13	P	June 17	140.55
1960		Dec. 6	144.30	July 5	121.38
Feb. 8	89.15	1963		31	P
Apr. 1	87.84	Jan. 3	114.70	Sept. 6	159.80
		22	106.49	Oct. 16	144.50
1962		Feb. 14	P	Nov. 19	161.20
Sept. 7	132.86	Mar. 20	P	Dec. 24	127.25
20	124.76				

30-37-2ba2. (C) Lawrence E. Steen. Drilled, water-table irrigation well in deposits of Pliocene and Pleisto-

cene age; diameter 16 inches, depth 480 feet. Measuring point, hole in south side of pump base, 1.30 feet above lsd. Highest water level 153.74 below lsd, Mar. 31, 1960; lowest 255.05 below lsd, May 21, 1963. Records available: 1957-60, 1962-63.

1957					
Feb. 13	176.62	Sept. 20	209.95	Mar. 20	P
1958		Oct. 11	219.45	Apr. 22	P
Feb. 13	175.68	Nov. 1	P	May 21	255.05
1959		13	P	June 17	216.35
Oct. 23	167.00	Dec. 6	P	July 5	P
1960		1963		31	247.10
Mar. 31	153.74	Jan. 3	205.15	Sept. 6	245.64
		23	179.00	Oct. 16	P
1962		Feb. 14	187.82	Dec. 24	228.72
Sept. 6	225.90				

30-37-10dc. (C) Tacy Marie Holliday and Henrietta Spencer. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 to 12 inches, depth 395 feet. Measuring point, hole in east side of pump, 0.10 foot above lsd. Highest water level 147.66 below lsd, Mar. 31, 1960; lowest 191.88 below lsd, Dec. 24, 1963. Records available: 1958-60, 1962-63.

1958					
Feb. 13	150.67	Oct. 11	P	Apr. 22	171.68
1959		Nov. 1	175.67	May 21	171.80
Feb. 6	149.83	13	P	June 17	169.20
Oct. 23	153.34	Dec. 6	P	July 5	169.80
1960		1963		31	P
Mar. 31	147.66	Jan. 3	167.48	Sept. 6	P
		22	163.88	Oct. 16	P
1962		Feb. 14	160.30	Nov. 19	P
Sept. 6	164.69	Mar. 20	P	Dec. 24	191.88
20	165.13				

30-27-20cb. (C) J. H. Lewis. Drilled, water-table irrigation well in deposits of Pleistocene age; diameter 16 inches, depth 335 feet. Measuring point, hole in south side of pump base, 0.65 foot above lsd. Highest water level 114.40 below lsd, Aug. 8, 1941; lowest 151.78 below lsd, Jan. 2, 1963. Records available: 1941, 1952-63. Jan. 2, 151.78.

30-38-13ccl. (C) Lawrence Hennigh. Drilled, water-table irrigation well in deposits of Triassic, Pliocene, and Pleistocene ages; diameter 16 inches, depth 560 feet. Measuring point, hole in northeast corner of pump, 0.30 foot above lsd. Highest water level 118.58 below lsd, Jan. 22, 1963; lowest 225.00 below lsd, Mar. 7, 1957. Records available: 1957, 1959-60, 1962-63.

1957					
Mar. 7	225.00	Nov. 1	164.61	May 21	P
1959		13	157.40	June 17	178.80
Dec. 27	129.40	Dec. 6	P	July 5	152.25
1960		1963		31	P
Apr. 1	126.12	Jan. 3	P	Sept. 6	P
		22	118.58	Oct. 16	P
1962		Feb. 14	140.67	Nov. 19	167.70
Sept. 6	224.82	Mar. 20	150.58	Dec. 24	154.70
20	151.70	Apr. 22	P		
Oct. 11	P				

GRAY COUNTY

3a. (C) N. A. Mans. NE SW NW sec. 7, T 28 S, R 27 W. Drilled, unused, water-table well in Ogallala For-

GRAY COUNTY—concluded

mation and deposits of Pleistocene age; diameter 5 inches, depth 206 feet. Measuring point, hole in east side of pump base, 0.35 foot above lsd. Highest water level 157.85 below lsd, Sept. 9, 1963; lowest 160.71 below lsd, June 7, 1956. Records available: 1954-63. Mar. 13, 158.26; June 10, 160.08; Sept. 9, 157.85; Dec. 10, 157.95.

24-28-36ac. (C) Art Schartz. Drilled, artesian irrigation well in Ogallala Formation; diameter 16 inches, depth 135 feet. Measuring point, pump base, 0.9 foot above lsd. Highest water level 83.34 below lsd, Oct. 8, 1963; lowest 85.06, July 13, 1960. Records available: 1956, 1959-63. Jan. 7, 83.67; Apr. 2, 83.51; July 8, 83.53; Oct. 8, 83.34.

26-29-7cb. (C) C. M. Davis. Drilled, unused, water-table stock well in deposits of Pleistocene age; diameter 6 inches, depth 101 feet. Measuring point, top of clamp south edge of north pipe, 1.00 foot above lsd. Highest water level 79.22 below lsd, Dec. 13, 1954; lowest 88.89 below lsd, May 22, 1940. Records available: 1939-41, 1953-63. Mar. 13, 81.14; June 10, P; Sept. 9, P; Dec. 10, 81.52.

27-27-9bb. (C) Donald Culver. Drilled, artesian irrigation well in Ogallala Formation; diameter 20 inches, depth 102 feet. Measuring point, upper edge of hole in east side of pump, 0.5 foot above lsd. Highest water level 74.12 below lsd, Jan. 9, 1963; lowest 75.06 below lsd, Jan. 15, 1962. Records available: 1960-63. Jan. 9, 74.12.

27-29-1aa. (C) Pete Breitenbach. Drilled, unused, artesian domestic well in Ogallala Formation; diameter 2 inches, depth 83 feet. Measuring point, top of pipe, south side, 5.0 feet above lsd. Highest water level 71.91 below lsd, July 13, 1960; lowest 72.60 below lsd, Dec. 12, 1962. Records available: 1960-63. Mar. 13, 72.57; June 10, 72.49; Sept. 9, 71.98.

27-30-10dc. (C) M. D. Frazier. Drilled, artesian irrigation well in Ogallala Formation; diameter 16 inches, depth 120 feet. Measuring point, top of opening in pump base, 0.5 foot above lsd. Highest water level 53.92 below lsd, Apr. 30, 1959; lowest 63.20 below lsd, Dec. 5, 1940. Records available: 1940, 1959-63. Jan. 9, 56.11.

28-30-17bb. (C) Earl A. Nelson. Drilled, artesian irrigation well in Ogallala Formation; diameter 16 inches, depth 300 feet. Measuring point, upper edge of hole in south side of pump, 0.8 foot above lsd. Highest water level 107.05 below lsd, Jan. 6, 1959; lowest 107.90 below lsd, Jan. 6, 1960, Jan. 6, 1963. Records available: 1959-63. Jan. 9, 107.90.

28-30-24ba. (C) Allen Isaac. Drilled, water-table irrigation well in Ogallala Formation and deposits of Pleistocene age; diameter 16 inches, depth 242 feet. Measuring point, top edge of hole in south side of pump head, 0.80 foot above lsd. Highest water level 115.37 below lsd, Apr. 2, 1962; lowest 126.51 below lsd, Oct. 3, 1961. Records available: 1961-63. Mar. 13, 116.88; June 10, 121.88; Sept. 9, P; Dec. 10, 122.00.

29-28-13ccc. (C) Owner unknown. Drilled, unused, stock well in Ogallala Formation; diameter 1½ inches, depth 83 feet. Measuring point, bottom of 1½-inch T in pipe, 2.10 feet above lsd. Highest water level 68.16 below lsd, Jan. 15, 1962; lowest 69.82 below lsd, July 17, 1959. Records available: 1958-63. Mar. 13, 68.84; June 10, 68.81; Sept. 9, 68.87. Measurement discontinued.

29-28-28cd. (C) Delbert McCune. Drilled, artesian irrigation well in Ogallala Formation; diameter 16 inches, depth 149 feet. Measuring point, hole in southwest side of pump base, 1.00 foot above lsd. Highest water level 87.60 below lsd, Apr. 18, 1960; lowest 92.42 below lsd, Sept. 9, 1963. Records available: 1959-63. Mar. 13, 89.72; June 10, 91.66; Sept. 9, 92.42; Dec. 10, P.

29-29-10bb. (C) Walter Schmidt. Drilled, artesian irrigation well in Ogallala Formation; diameter 16 inches, depth 151 feet. Measuring point, hole in south side of pump base, 1.5 feet above lsd. Highest water level 85.38 below lsd, Jan. 6, 1960; lowest 92.07 below lsd, June 10, 1963. Records available: 1959-63. Mar. 13, 86.57; June 10, 92.07; Sept. 9, 90.95; Dec. 10, 91.25.

GREELEY COUNTY

16-39-33cc. (C) Robert Hoard. Domestic and stock well in Ogallala Formation; diameter 6 inches, depth 106 feet. Measuring point, top board covering casing, 0.80 foot above lsd. Highest water level 72.88 below lsd, Sept. 5, 1962; lowest 73.64 below lsd, Dec. 8, 1959. Records available: 1959-63. Feb. 4, 73.19; May 13, 73.32; Aug. 5, 73.43; Dec. 6, 73.47.

16-41-20ba. (C) J. Howell. Drilled, water-table stock well in Ogallala Formation; diameter 6 inches, depth 150 feet. Measuring point, top of casing, 0.40 foot above lsd. Highest water level 127.96 below lsd, Jan. 6, 1949; lowest 135.13 below lsd, Dec. 6, 1963. Records available: 1947-63. Feb. 4, 133.50; May 13, 133.37; Dec. 6, 135.13.

17-40-15cc. (C) Joe E. Smith. Drilled, irrigation well in Ogallala Formation; diameter 18 inches, depth 200 feet. Measuring point, hole in east side of pump base, 0.40 foot above lsd. Highest water level 125.16 below lsd, Nov. 5, 1962; lowest 131.20 below lsd, Dec. 6, 1963. Records available: 1962-63. 1962: Oct. 16, 126.78; Nov. 5, 125.16. 1963; Feb. 4, 125.97; May 13, 126.45; Aug. 5, P; Dec. 6, 131.20.

20-40-24aa. (C) Owner unknown. Drilled stock well in Ogallala Formation; diameter 5 inches, depth 220 feet. Measuring point, west side of pump base, 0.80 foot above lsd. Highest water level 191.07 below lsd, Mar. 22, 1956; lowest 197.24 below lsd, Mar. 24, 1955. Records available: 1954-63. Mar. 19, 194.24; June 5, 193.59; Nov. 21, 193.34.

HAMILTON COUNTY

2a. (C) Chester Huser. NE NE sec. 21, T 23 S, R 43 W. Drilled irrigation well in alluvium; diameter 40 inches, depth 29 feet. South well of a battery of three irrigation wells. Measuring point, top west side of concrete curb, 1.31 feet above lsd. Highest water level 11.33 below lsd, June 14, 1962; lowest 18.27 below lsd, Sept. 19, 1963. Records available: 1944-63.

Jan. 17	13.41	July 11	14.54
Feb. 14	13.48	Aug. 15	17.20
Mar. 21	13.46	Sept. 19	18.27Pc*
Apr. 11	13.26	Oct. 10	15.54
May 23	16.56	Nov. 20	15.01
June 20	15.09	Dec. 19	14.76

* Well pumping 20 feet south.

6. (C) Belle Heinien. SW SW SE sec. 24, T 24 S, R 39 W. Drilled, unused, water-table well in Dakota Formation; diameter 5 inches, depth 98 feet. Measuring point, top south side of casing, at land surface. Highest water level 22.97 below lsd, Sept. 5, 1958; lowest 56.40 below lsd, July 23, 1954. Records available: 1939-63.

Jan. 8	47.39	May 23	50.05	Sept. 26	52.90
Feb. 14	47.19	June 18	50.05	Oct. 10	53.04
Mar. 21	47.90	July 25	51.25	Nov. 20	53.12
Apr. 25	48.98	Aug. 15	51.97	Dec. 19	53.76

24-40-8cc. (C) Mildred E. Lindsey. Drilled, water-table irrigation well in alluvial sands; diameter 18 inches, depth 34 feet. Measuring point, top edge of 2 x 6 board on top of tile well house wall, 3.00 feet above lsd. Highest water level 13.10 below lsd, June 14, 1962; lowest 16.71 below lsd, Aug. 22, 1963. Records available: 1962-63.

Jan. 8	14.55	May 23	14.91	Sept. 26	14.75
Feb. 14	13.47	June 20	14.40	Oct. 10	14.45
Mar. 21	13.61	July 25	16.01	Nov. 20	14.45
Apr. 25	13.87	Aug. 22	16.71	Dec. 19	14.27

26-40-18ba. (C) M. Williamson. Drilled, stock well in Dakota Formation; diameter 6 inches, depth 133 feet. Measuring point, top of wooden clamp, northwest side, 1.00 foot above lsd. Highest water level 110.95 below lsd, July 14, 1959; lowest 123.60 below lsd, Sept. 28, 1939. Records available: 1939, 1959-63. Jan. 8, 111.35.

26-42-22cd. (C) Harold Payne. Drilled, artesian irrigation well in Ogallala Formation; diameter 16 inches, depth 265 feet. Measuring point, hole in southeast side of pump, 1.00 foot above lsd. Highest water level 87.42 below lsd, Jan. 5, 1960; lowest 99.46 below lsd, Sept. 26, 1963. Records available: 1959-63. Jan. 8, 93.50; June 18, 98.08; Sept. 26, 99.46; Dec. 19, P.

HARPER COUNTY

32-7-11cdd. (C) City of Anthony. Bored observation well in terrace deposits of Pleistocene age; diameter 1½ inches, depth 53 feet. Measuring point, top of pipe, 1.20 feet above lsd. Highest water level 11.53 below lsd, Aug. 27, 1961; lowest 22.09 below lsd, Mar. 24, 31, 1957. Records available: 1956-63.

Feb. 9	14.74	May 28	16.57	Sept. 30	19.05
27	15.05	June 23	16.43	Nov. 9	19.05
Mar. 30	15.18	July 27	18.05	Dec. 5	19.26
Apr. 27	15.80	Aug. 20	18.22	28	19.47

32-7-12ccb. (C) City of Anthony. Drilled observation well in terrace deposits of Pleistocene age; diameter 2 inches, depth 60 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 22.50 below lsd, Oct. 15, 1954; lowest 36.79 below lsd, Oct. 28, 1956. Records available: 1954-63.

Feb. 9	28.63	May 28	30.77	Sept. 30	33.50
27	28.65	June 23	31.21	Nov. 9	33.38
Mar. 30	28.92	July 27	32.50	Dec. 5	32.83
Apr. 27	29.50	Aug. 20	33.19	28	33.29

HARVEY COUNTY

101. (C) City of Wichita. NW NW sec. 18, T 23 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1½ inches, depth 75 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 26.30 below lsd, July 2, 1962; lowest 38.46 below lsd, Aug. 31, 1956. Records available: 1954-63. Mar. 29, 28.73; July 1, 30.91; Oct. 2, 30.89.

102. (C) City of Wichita. NE NE sec. 24, T 23 S, R 3 W. Drilled, water-table observation well in sand and

gravel of Pleistocene age; diameter 1¼ inches, depth 68 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 23.60 below lsd, Jan. 1, 1959; lowest 36.33 below lsd, Aug. 31, 1956. Records available: 1954-63. Mar. 29, 28.90; July 1, 30.84; Oct. 2, 30.33.

103. (C) City of Wichita. SW SW sec. 19, T 23 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 73 feet. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 24.13 below lsd, July 31, 1961; lowest 33.93 below lsd, Sept. 1, 1955. Records available: 1954-63. Mar. 29, 28.29; July 1, 29.85; Oct. 2, 28.93.

104. (C) City of Wichita. NW NW sec. 23, T 23 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 81 feet. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 17.47 below lsd, Jan. 1, 1959; July 31, 1962; lowest 27.77 below lsd, Nov. 1, 1956. Records available: 1954-63. Mar. 29, 18.88; July 1, 20.59; Oct. 2, 21.23.

105. (C) City of Wichita. SE SE sec. 18, T 23 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 60 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 17.90 below lsd, July 2, 1962; lowest 31.58 below lsd, Aug. 31, 1956. Records available: 1954-63. Mar. 29, 21.69; July 1, 24.60; Oct. 2, 23.39.

106. (C) City of Wichita. NW NW sec. 36, T 23 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 62 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 22.73 below lsd, Sept. 29, 1960; lowest 27.68 below lsd, Aug. 31, 1956. Records available: 1954-63. Mar. 29, 23.78; July 1, 25.01; Oct. 2, 24.84.

107. (C) City of Wichita. NW SE sec. 3, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 66 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 33.03 below lsd, Feb. 1, 1961; lowest 49.06 below lsd, Aug. 1, 1956. Records available: 1954-63. Mar. 29, 34.77; July 1, 39.82; Oct. 2, 38.26.

108. (C) City of Wichita. NW NW sec. 11, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 38 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 10.06 below lsd, July 27, 1954; lowest 13.22 below lsd, Apr. 1, 1957. Records available: 1954-63. Mar. 29, 11.12; July 1, 11.34; Oct. 2, 11.50.

109. (C) City of Wichita. NE cor. sec. 22, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 39 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 9.76 below lsd, Oct. 2, 1958; lowest 15.03 below lsd, Apr. 1, 1957. Records available: 1954-63. Mar. 29, 12.40; July 1, 13.21; Oct. 2, 13.38.

110. (C) City of Wichita. SW cor. sec. 25, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 38 feet. Measuring point, top of pipe, 4.00 feet above lsd. Highest water level 4.85 below lsd, July 31, 1961; lowest 10.36 below lsd, Mar. 1, 1957. Records available: 1954-63. Mar. 29, 7.13; July 1, 7.97; Oct. 2, 8.42.

111. (C) City of Wichita. SE cor. sec. 2, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 42 feet. Measuring point, top of pipe, 2.00 feet above lsd.

HARVEY COUNTY—*continued*

Highest water level 9.45 below lsd, July 31, 1962; lowest 20.12 below lsd, Oct. 1, 1956. Records available: 1954-63. Mar. 29, 12.38; July 1, 14.06; Oct. 2, 13.42.

112. (C) City of Wichita. SE cor. sec. 25, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 40 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 13.09 below lsd, Aug. 30, 1962; lowest 25.65 below lsd, May 1, 1957. Records available: 1954-63. Mar. 29, 14.04; July 1, 14.90; Oct. 2, 15.20.

113. (C) City of Wichita. NW cor. sec. 29, T 24 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 29 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 12.97 below lsd, July 31, 1962; lowest 23.90 below lsd, Mar. 1, 1957. Records available: 1954-63. Mar. 29, 16.91; July 1, 17.86; Oct. 2, 17.92.

118. (C) City of Wichita. SE cor. sec. 27, T 23 S, R 2 W. Bored, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 37 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 7.78 below lsd, July 1, 1957; lowest 19.69 below lsd, Oct. 1, 1956. Records available: 1955-63. Mar. 29, 13.70; July 1, 14.69; Oct. 2, 14.48.

119. (C) City of Wichita. NW cor. sec. 6, T 24 S, R 1 W. Bored, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 45 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 25.47 below lsd, July 31, 1962; lowest 36.76 below lsd, Oct. 1, 1956. Records available: 1955-63. Mar. 29, 29.49; July 1, 32.28; Oct. 2, 31.66.

120. (C) City of Wichita. SE cor. sec. 1, T 24 S, R 2 W. Bored, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 40 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 11.35 below lsd, July 2, 1962; lowest 23.00 below lsd, Oct. 1, 1956. Records available: 1955-63. Mar. 29, 16.08; July 1, 19.03; Oct. 2, 17.78.

121. (C) City of Wichita. SW cor. sec. 5, T 24 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 81 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 38.62 below lsd, July 2, 1962; lowest 54.18 below lsd, May 31, 1956. Records available: 1955-63. Mar. 29, 45.92; July 1, 49.98; Oct. 2, 48.37.

122. (C) City of Wichita. NW cor. sec. 18, T 24 S, R 1 W. Bored, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 42 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 6.99 below lsd, June 1, 1962; lowest 23.01 below lsd, Oct. 1, 1956. Records available: 1955-63. Mar. 29, 18.56; July 1, 19.65; Oct. 2, 19.11.

123. (C) City of Wichita. SE cor. sec. 7, T 24 S, R 1 W. Bored, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 43 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 20.84 below lsd, May 1, 1957; lowest 38.54 below lsd, Dec. 31, 1956. Records available: 1955-63. Mar. 29, 30.58; July 1, 33.07; Oct. 2, 32.17.

506. (C) W. G. Backhaus. NW NE sec. 28, T 23 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 6 inches, depth 139 feet. Measuring point, plate on instrument shelf, 3.10 feet above lsd. Highest water level 1.71 below lsd, July 16, 1951; lowest 21.70 below lsd, Oct. 15, 1956. Records available: 1938-63. Mar. 29, 14.52; July 1, 15.65; Oct. 2, 15.65.

507. (C) W. G. Backhaus. NW NE sec. 28, T 23 S, R 2 W. Driven, unused, water-table well in sand of Pleistocene age; diameter 1¼ inches, depth 44 feet.

Measuring point, plate on instrument shelf, 3.10 feet above lsd. Highest water level 3.23 below lsd, May 6, 1944; lowest 21.32 below lsd, Aug. 31, 1956. Records available: 1938-63. Mar. 29, 11.54; July 1, 16.49; Oct. 2, 13.55.

736. (C) I. Ansel, Jr. SE SW SE sec. 12, T 23 S, R 3 W. Driven, water-table domestic well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 33 feet. Measuring point, base of pitcher pump, 4.70 feet above lsd. Highest water level 0.84 below lsd, July 2, 1962; lowest 12.81 below lsd, Dec. 31, 1956. Records available: 1950-63. Mar. 29, 4.24; July 1, 5.62; Oct. 2, 6.98.

817. (C) City of Wichita. NW cor. sec. 1, T 24 S, R 2 W. Driven, water-table observation well in sand of Pleistocene age; diameter 1¼ inches, depth 31 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 1.88 below lsd, Aug. 1, 1951; lowest 21.46 below lsd, Oct. 1, 1956. Records available: 1938-63. Mar. 29, 15.71; July 1, 18.28; Oct. 2, 17.18.

821. (C) City of Wichita. NW cor. sec. 6, T 24 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 12.03 below lsd, Aug. 21, 1939; lowest 29.93 below lsd, Apr. 1, 1957. Records available: 1938-63. Mar. 29, 26.60; July 1, 27.54; Oct. 2, 27.63.

824. (C) City of Wichita. SE SE sec. 22, T 24 S, R 1 W. Driven, water-table observation well in sand of Pleistocene age; diameter 1¼ inches, depth 42 feet. Measuring point, top of pipe, 2.60 feet above lsd. Highest water level 3.60 below lsd, June 1, 1951; lowest 19.87 below lsd, Oct. 1, 1956. Records available: 1938-63. Mar. 29, 9.38; July 1, 10.60; Oct. 2, 12.23.

832. (C) City of Wichita. NE cor. sec. 19, T 24 S, R 1 W. Drilled, observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 129 feet. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 11.36 below lsd, May 31, 1962; lowest 24.85 below lsd, Dec. 31, 1956. Records available: 1938-49; 1955-63. Mar. 29, 18.00; July 1, 19.23; Oct. 2, 18.97.

833. (C) T. B. Burrows. SW SW sec. 19, T 24 S, R 1 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 57 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 5.11 below lsd, Oct. 2, 1945; lowest 25.23 below lsd, Mar. 1, 1957. Records available: 1938-63. Mar. 29, 15.45; July 1, 16.29; Oct. 2, 16.35.

839. (C) City of Wichita. NE NE sec. 35, T 24 S, R 2 W. Drilled, water-table observation well in sand of Pleistocene age; diameter 1¼ inches. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 10.62 below lsd, Aug. 21, 1939; lowest 32.52 below lsd, May 1, 1957. Records available: 1938-63. Mar. 29, 21.11; July 1, 21.54; Oct. 2, 21.98; Dec. 31, 22.32.

853. (C) City of Wichita. NW cor. sec. 13, T 24 S, R 2 W. Drilled, water-table observation well in sand of Pleistocene age; diameter 1¼ inches, depth 37 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 5.82 below lsd, Oct. 2, 1951; lowest 21.86 below lsd, Mar. 1, 1957. Records available: 1938-63. Mar. 29, 12.49; July 1, 13.75; Oct. 2, 13.35; Dec. 31, 13.57.

854. (C) City of Wichita. SW SW sec. 23, T 23 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 32 feet. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 5.13 below lsd, Aug. 1, 1951; lowest 17.34 below lsd, Jan. 31, 1957. Records available: 1938-63. Mar. 29, 10.68; July 1, 11.91; Oct. 2, 11.99; Dec. 31, 12.30.

855a. Listed under Reno County.

873. (C) City of Wichita. D. C. Buller, owner of property. SE cor. sec. 31, T 23 S, R 2 W. Drilled observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 63 feet. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 10.49 below lsd, Apr. 29, 1943; lowest 41.05 below lsd, Jan. 1, 1958. Records available: 1939-49, 1954-63. Mar. 29, 34.68; July 1, 37.34; Oct. 2, 36.80; Dec. 31, 36.79.

874. (C) City of Wichita. D. C. Buller, owner of property. SE cor. sec. 31, T 23 S, R 2 W. Drilled observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 201 feet. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 20.04 below lsd, May 27, 1940; lowest 62.82 below lsd, Mar. 29, 1962. Records available: 1939-49, 1954-63. Mar. 29, 41.28; July 1, 56.38; Oct. 2, 47.84; Dec. 31, 49.95.

875. (C) A. B. Havely. SE cor. sec. 17, T 23 S, R 3 W. Driven, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 13 feet. Measuring point, top of pipe, 1.70 feet above lsd. Highest water level 1.70 above lsd, Oct. 31, and Dec. 31, 1958 through June 30, 1959; lowest 8.78 below lsd, Oct. 31, 1955. Records available: 1939-63. Mar. 29, +1.10; July 1, 1.03; Oct. 2, 1.95; Dec. 31, 1.33.

876. (C) A. B. Havely. SE cor. sec. 17, T 23 S, R 3 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 246 feet. Measuring point, top of instrument shelf, 2.70 feet above lsd. Highest water level 16.15 below lsd, Sept. 28, 1962; lowest 32.83 below lsd, Apr. 2, 1957. Records available: 1939-63. Mar. 29, 23.86; July 1, 24.27; Oct. 2, 21.39; Dec. 31, 24.07.

877. (C) A. B. Havely. SE cor. sec. 17, T 23 S, R 3 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 6 inches, depth 47 feet. Measuring point, top of plate on instrument shelf, 3.40 feet above lsd. Highest water level 8.50 below lsd, Jan. 2, 1959; lowest 19.21 below lsd, Sept. 5, Oct. 5, 1956. Records available: 1939-63. Mar. 29, 9.84; July 1, 10.54; Oct. 2, 10.94; Dec. 31, 10.98.

878. (C) C. Cadwell. SE cor. sec. 1, T 24 S, R 3 W. Driven, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 45 feet. Measuring point, top of pipe, 0.30 foot above lsd. Highest water level 16.25 below lsd, June 3, 1940; lowest 39.08 below lsd, Sept. 1, 1959. Records available: 1938-63. Mar. 29, 31.67; July 1, 32.05; Oct. 2, 32.52; Dec. 31, 32.64.

879. (C) C. Cadwell. SE cor. sec. 1, T 24 S, R 3 W. Drilled, unused, water-table well in sand of Pleistocene age; diameter 1¼ inches, depth 241 feet. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 17.52 below lsd, May 27, June 3, 1940; lowest 40.59 below lsd, Oct. 30, 1959. Records available: 1938-63. Mar. 29, 36.84; July 1, 39.88; Oct. 2, 38.24; Dec. 31, 38.18.

880. (C) Peter Miller. SE SE sec. 11, T 24 S, R 3 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 19 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 2.56 below lsd, Sept. 30, 1945; lowest dry, Mar. 2, Apr. 2, May 1, 1956. Records available: 1938-63. Mar. 29, 14.07; July 1, 14.79; Oct. 2, 15.55; Dec. 31, 16.03.

881. (C) Peter Miller. SE SE sec. 11, T 24 S, R 3 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 55 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 3.23 below lsd, Sept. 30, 1945; lowest 17.55 below lsd, Dec. 31, 1963. Records available: 1938-

63. Mar. 29, 15.70; July 1, 15.15; Oct. 2, 16.26; Dec. 31, 17.55.

884. (C) Maggie Holle. NW cor. sec. 26, T 24 S, R 2 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 60 feet. Measuring point, top of pipe, 0.60 foot above lsd. Highest water level 13.34 below lsd, Aug. 21, 1939; lowest 38.30 below lsd, May 1, 1957. Records available: 1939-63. Mar. 29, 25.82; July 1, 27.15; Oct. 2, 27.16; Dec. 31, 27.17.

885. (C) Maggie Holle. NW cor. sec. 26, T 24 S, R 2 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 99 feet. Measuring point, top of pipe, 0.60 foot above lsd. Highest water level 13.22 below lsd, Aug. 21, 1939; lowest 39.70 below lsd, May 1, 1957. Records available: 1939-63. Mar. 29, 25.74; July 1, 26.85; Oct. 2, 27.14; Dec. 31, 27.06.

886. (C) F. H. Haiber. NE cor. NW sec. 16, T 24 S, R 2 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 57 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 2.34 below lsd, Aug. 21, 1939; lowest 31.86 below lsd, Aug. 1, 1956. Records available: 1939-63.

Jan. 25	22.05	June 26	24.00	Nov. 26	21.75
Feb. 25	22.51	July 25	24.07	Dec. 26	22.09
Mar. 25	21.92	Aug. 23	22.73	31	22.10
Apr. 29	21.07	Sept. 25	23.40		
May 24	21.31	Oct. 24	23.55		

887. (C) F. H. Haiber. NE cor. NW sec. 16, T 24 S, R 2 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 111 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 2.72 below lsd, May 27, 1940; lowest 33.33 below lsd, Aug. 1, 1956. Records available: 1939-63. Mar. 29, 24.37; July 1, 24.28; Oct. 2, 23.82; Dec. 31, 22.69.

888. (C) C. K. Ellis. NW cor. sec. 17, T 23 S, R 2 W. Drilled, unused, water-table well in sand of Pleistocene age; diameter 1¼ inches, depth 12 feet. Measuring point, top of pipe, 0.70 foot above lsd. Highest water level 0.35 below lsd, Nov. 7, 1951; lowest dry, Apr. 2, 1957. Records available: 1939-63. Mar. 29, 0.82; July 1, 4.66; Oct. 2, 6.65; Dec. 31, 6.42.

889. (C) C. K. Ellis. NW cor. sec. 17, T 23 S, R 2 W. Drilled, unused, water-table well in sand of Pleistocene age; diameter 1¼ inches, depth 151 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 0.16 below lsd, Apr. 1, 1959; lowest 16.35 below lsd, Aug. 31, 1956. Records available: 1939-63. Mar. 29, 6.57; July 1, 9.07; Oct. 2, 8.54; Dec. 31, 8.56.

890a. (C) J. F. Jorgenson. NE cor. SE SE sec. 21, T 24 S, R 3 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 15 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 3.68 below lsd, July 31, 1962; lowest 9.94 below lsd, Nov. 1, 1956. Records available: 1954-63. Mar. 29, 5.50; July 1, 6.69; Oct. 2, 6.24; Dec. 31, 6.88.

891. (C) Arthur McMurry. SE SE sec. 31, T 24 S, R 3 W. Driven, unused, water-table well in alluvium; diameter 1¼ inches, depth 7 feet. Measuring point, top of pipe, 0.70 foot above lsd. Highest water level 0.46 below lsd, May 11, 1942; lowest dry, July 2, Aug. 31, Oct. 1, 1956. Records available: 1939-63. Mar. 29, 3.52; July 1, 4.38; Oct. 2, 3.84; Dec. 31, 3.91.

HARVEY COUNTY—continued

892. (C) Arthur McMurry. SE SE sec. 31, T 24 S, R 3 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 106 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 1.15 above lsd, May 12, 1944; lowest 5.88 below lsd, Oct. 1, 1956. Records available: 1939-63. Mar. 29, 2.76; July 1, 3.60; Oct. 2, 3.12; Dec. 31, 3.22.
893. (C) Arthur McMurry. SE SE sec. 31, T 24 S, R 3 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 163 feet. Measuring point, top of pipe, 1.90 feet above lsd. Highest water level 0.48 above lsd, July 9, 1951; lowest 5.42 below lsd, Oct. 1, 1956. Records available: 1939-63. Mar. 29, 2.48; July 1, 3.29; Oct. 2, 2.83; Dec. 31, 2.97.
894. (C) H. A. Lawrence. NE NE sec. 18, T 24 S, R 2 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 59 feet. Measuring point, top of pipe, 3.10 feet above lsd. Highest water level 9.56 below lsd, May 27, 1940; lowest 34.40 below lsd, Apr. 2, 1957. Records available: 1938-63. Mar. 29, 27.97; July 1, 28.52; Oct. 2, 29.38; Dec. 31, 29.18.
- 1053-B. (C) J. H. Workentine. SW NE NW sec. 16, T 23 S, R 3 W. Driven, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 38 feet. Measuring point, top of 1¼-inch union, 0.30 foot above lsd. Highest water level 6.67 below lsd, July 9, 1951; lowest 19.41 below lsd, Dec. 31, 1956. Records available: 1950-63. Mar. 29, 8.30; July 1, 10.10; Oct. 2, 12.75; Dec. 31, 11.57.
1173. (C) City of Wichita. NE cor. sec. 29, T 24 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 26 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 10.64 below lsd, July 9, 1951; lowest 24.25 below lsd, May 31, 1957. Records available: 1950-63. Mar. 29, 21.22; July 1, 21.60; Oct. 2, 22.02; Dec. 31, 22.29.
1174. (C) City of Wichita. SW cor. sec. 32, T 24 S, R 1 W. Driven observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 32 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 2.28 below lsd, May 1, 1945; lowest 22.73 below lsd, Mar. 1, Apr. 2, 1957. Records available: 1940-49, 1954-63. Mar. 29, 12.24; July 1, 13.29; Oct. 2, 13.53; Dec. 31, 14.31.
1175. (C) City of Wichita. SE cor. sec. 30, T 24 S, R 1 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 32 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 3.80 below lsd, July 9, 1951; lowest 20.50 below lsd, May 1, 1957. Records available: 1950-63. Mar. 29, 12.35; July 1, 13.27; Oct. 2, 13.41; Dec. 31, 14.10.
1179. (C) City of Wichita. SE NW SE sec. 33, T 24 S, R 1 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 32 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 8.25 below lsd, Oct. 2, 1951; lowest 21.76 below lsd, Oct. 1, 1956. Records available: 1950-63. Mar. 29, 17.12; July 1, 17.86; Oct. 2, 18.01; Dec. 31, 18.25.
1186. (C) City of Wichita. SW cor. sec. 13, T 24 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 37 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 5.25 below lsd, Sept. 7, 1951; lowest 24.67 below lsd, Mar. 1, 1957. Records available: 1941-63. Mar. 29, 14.49; July 1, 15.34; Oct. 2, 15.00; Dec. 31, 15.30.
1187. (C) City of Wichita. NW cor. sec. 19, T 24 S, R 1 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 39 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 2.30 below lsd, July 9, 1951; lowest 20.48 below lsd, Dec. 31, 1956. Records available: 1941-63. Mar. 29, 10.89; July 1, 12.17; Oct. 2, 11.57; Dec. 31, 11.99.
1189. (C) City of Wichita. SW cor. sec. 16, T 24 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 32 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 6.50 below lsd, Apr. 26, 1942; lowest 27.38 below lsd, Apr. 2, 1957. Records available: 1941-46, 1949-63. Mar. 29, 20.55; July 1, 20.85; Oct. 2, 21.19; Dec. 31, 21.13.
1190. (C) City of Wichita. NE NE sec. 15, T 24 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 40 feet. Measuring point, top of pipe, 0.70 foot above lsd. Highest water level 14.14 below lsd, July 9, 1951; lowest 32.99 below lsd, May 1, 1957. Records available: 1950-63. Mar. 29, 22.18; July 1, 23.72; Oct. 2, 23.87; Dec. 31, 23.95.
1191. (C) City of Wichita. SW cor. sec. 27, T 23 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 27 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 4.12 below lsd, July 3, 1957; lowest 19.63 below lsd, Aug. 31, 1956. Records available: 1950-63. Mar. 29, 12.38; July 1, 14.66; Oct. 2, 13.89; Dec. 31, 13.60.
1193. (C) J. W. McElwain. SE NE NE sec. 24, T 23 S, R 3 W. Driven, water-table stock well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 23 feet. Measuring point, bottom valve seat of pump, 2.35 feet above lsd. Highest water level 2.06 below lsd, May 31, 1962; lowest 11.68 below lsd, June 28, 1950. Records available: 1950-63. Mar. 29, 4.28; July 1, 5.50; Oct. 2, 6.39; Dec. 31, 6.83.
1194. (C) Byron Wood. NE SW SW sec. 14, T 23 S, R 3 W. Driven, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 21 feet. Measuring point, bottom valve seat of pump, 2.19 feet above lsd. Highest water level 1.09 below lsd, July 2, 1962; lowest 12.67 below lsd, Aug. 1, 1956. Records available: 1941, 1950, 1952-63. Mar. 29, 3.21; July 1, 5.47; Oct. 2, 6.53; Dec. 31, 6.93.
1196. (C) Maggie Vollwieder. SE cor. sec. 27, T 24 S, R 3 W. Driven, water-table stock well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 19 feet. Measuring point, lower check valve, 2.10 feet above lsd. Highest water level 2.17 below lsd, June 3, 1952; lowest 7.86 below lsd, Dec. 28, 1957. Records available: 1941, 1952-63. Mar. 29, 3.99; July 1, 4.92; Oct. 2, 5.09; Dec. 31, 5.64.
2072. (C) Peter Hoops and others. NE NW sec. 5, T 24 S, R 2 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 3 inches, depth 46 feet. Measuring point, top of casing, 0.60 foot above lsd. Highest water level 27.09 below lsd, May 5, 1947; lowest 40.65 below lsd, Mar. 2, 1959. Records available: 1941-63. Mar. 29, 39.51; July 1, 39.63; Oct. 2, 39.66; Dec. 31, 39.50.
2084. (C) Mrs. Emma Linn Webster. SE cor. sec. 15, T 24 S, R 2 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 6 inches, depth 30 feet. Measuring point, top of casing, at land surface. Highest water level 2.79 below lsd, Oct. 2, 1951;

lowest 29.22 below lsd, Apr. 2, 1957. Records available: 1950-63. Mar. 29, 18.72; July 1, 19.59; Oct. 2, 19.37; Dec. 31, 19.74.

2088. (C) City of Wichita. NW cor. sec. 22, T 24 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 37 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 3.70 below lsd, Apr. 28, 1944; lowest 25.79 below lsd, Mar. 1, 1957. Records available: 1944-46, 1949-63. Mar. 29, 15.52; July 1, 16.46; Oct. 2, 16.17; Dec. 31, 16.23.

3001. (C) City of Wichita. SW SW sec. 30, T 23 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 48 feet. Measuring point, top of pipe, 0.90 foot above lsd. Highest water level 19.12 below lsd, Sept. 30, 1955; lowest 30.12 below lsd, Aug. 31, 1956. Records available: 1951-63. Mar. 29, 26.28; July 1, 27.66; Oct. 2, 27.42; Dec. 31, 27.41.

3002. (C) City of Wichita. SW SW SE sec. 30, T 24 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 20 feet. Measuring point, top of pipe, 3.60 feet above lsd. Highest water level 0.82 above lsd, July 9, 1951; lowest 11.38 below lsd, Oct. 1, 1956. Records available: 1950-63. Mar. 29, 6.63; July 1, 7.30; Oct. 2, 7.74; Dec. 31, 8.53.

3003. (C) City of Wichita. SW SE SE sec. 32, T 24 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 20 feet. Measuring point, top of pipe, 1.20 feet above lsd. Highest water level 0.67 below lsd, July 9, 1951; lowest 15.97 below lsd, July 1, 1957. Records available: 1950-63. Mar. 29, 6.93; July 1, 7.84; Oct. 2, 8.30; Dec. 31, 8.89.

3005. (C) Sally McFarland and others. SE SW sec. 28, T 23 S, R 2 W. Driven, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 63 feet. Measuring point, top of pipe, 0.90 foot above lsd. Highest water level 39.27 below lsd, July 31, 1961; lowest 56.10 below lsd, Sept. 1, 1955. Records available: 1951-63. Mar. 29, 41.30; July 1, 49.88; Oct. 2, 44.04; Dec. 31, 43.39.

3031. (C) City of Wichita. NE cor. sec. 24, T 24 S, R 3 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 27 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 9.82 below lsd, Oct. 2, 1951; lowest 21.10 below lsd, Apr. 2, 1957. Records available: 1950-63. Mar. 29, 18.35; July 1, 18.53; Oct. 2, 18.78; Dec. 31, 19.08.

3032. (C) City of Wichita. SW cor. sec. 24, T 24 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 48 feet. Measuring point, top of pipe, 0.90 foot above lsd. Highest water level 13.03 below lsd, Nov. 7, 1951; lowest 28.75 below lsd, Mar. 1, Apr. 2, 1957. Records available: 1950-63. Mar. 29, 22.28; July 1, 22.18; Oct. 2, 22.19; Dec. 31, 22.12.

3033. (C) City of Wichita. SW cor. sec. 2, T 24 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 45 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 13.77 below lsd, Aug. 1, 1951; lowest 31.69 below lsd, May 1, 1957. Records available: 1950-63. Mar. 29, 19.53; July 1, 22.03; Oct. 2, 21.16; Dec. 31, 20.83.

3034. (C) City of Wichita. SW SW sec. 28, T 24 S, R 3 W. Drilled, water-table observation well in sand and

gravel of Pleistocene age; diameter 1¼ inches, depth 20 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 1.35 below lsd, July 9, 1951; lowest 9.01 below lsd, Oct. 1, 1956. Records available: 1950-63. Mar. 29, 4.88; July 1, 6.00; Oct. 2, 5.37; Dec. 31, 5.93.

3035. (C) City of Wichita. SE SE sec. 34, T 23 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 28 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 8.16 below lsd, Nov. 1, 1950; lowest 20.77 below lsd, Apr. 2, 1957. Records available: 1950-63. Mar. 29, 16.52; July 1, 16.85; Oct. 2, 17.15; Dec. 31, 17.28.

3036. (C) City of Wichita. SE SW SE sec. 23, T 23 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 40 feet. Measuring point, top of pipe, 0.30 foot above lsd. Highest water level 13.63 below lsd, Jan. 3, 1952; lowest 34.69 below lsd, Apr. 1, 1959. Records available: 1950-63. Mar. 29, 28.03; July 1, 29.29; Oct. 2, 29.30; Dec. 31, 29.38.

3037. (C) City of Wichita. NE NW NE sec. 5, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 70 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 37.99 below lsd, Jan. 2, 1959; lowest 53.19 below lsd, Aug. 1, 1957. Records available: 1950-63. Mar. 29, 42.25; July 1, 48.34; Oct. 2, 44.47; Dec. 31, 43.53.

3038. (C) Sally McFarland and others. SE SW SW sec. 33, T 23 S, R 2 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1½ inches, depth 70 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 36.04 below lsd, Jan. 3, 1951; lowest 52.98 below lsd, Aug. 1, 1956. Records available: 1950-63. Mar. 29, 39.34; July 1, 45.87; Oct. 2, 42.25; Dec. 31, 40.73.

3039. (C) George Lehman. SW SE sec. 34, T 23 S, R 2 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 37 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 0.10 above lsd, Sept. 7, 1951; lowest 18.66 below lsd, Aug. 31, 1956. Records available: 1950-63. Mar. 29, 9.84; July 1, 12.35; Oct. 2, 11.58; Dec. 31, 11.25.

M-1.** (C) City of Wichita. NW cor. sec. 29, T 23 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 222 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 18.56 below lsd, Apr. 13, 1939; lowest 112.50 below lsd, Sept. 2, 1958. Records available: 1939-63.

Jan.	2	74.50Pm	July	1	75.00Pm
Feb.	1	32.00	Aug.	1	74.50Pm
Mar.	1	74.00Pm	Aug.	30	36.00
Apr.	1	75.00Pm	Oct.	1	73.00Pm
May	1	77.50Pm	Nov.	1	75.00Pm
	31	74.00Pm	Dec.	1	74.50Pm

** The prefix *M* indicates that the well is a City of Wichita municipal well; the suffix *r* indicates a replacement for the original municipal well of that number. The suffix letter *b* indicates a shallow observation well near the municipal well of the same number; the suffix letter *d* indicates a deep observation well near the same well. The observation wells are from 200 to 500 feet from the pumped well, and generally where there are a shallow and a deep well, they are adjacent.

HARVEY COUNTY—continued

M-1b. (C) City of Wichita. NW cor. sec. 29, T 23 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1½ inches, depth 69 feet. Measuring point, top of pipe, 0.70 foot above lsd. Highest water level 15.94 below lsd, June 3, 1940; lowest 42.24 below lsd, May 1, 1963. Records available: 1939-63.

Jan. 2	38.80Pc	July 1	41.12Pc
Feb. 1	27.53	Aug. 1	40.65Pc
Mar. 1	39.44Pc	Aug. 30	31.90
Apr. 1	39.34Pc	Oct. 1	39.40Pc
May 1	42.24Pc	Nov. 1	41.80Pc
31	38.67Pc	Dec. 2	40.11Pc

M-2r. (C) City of Wichita. NW SW sec. 29, T 23 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 231 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 40.00 below lsd, Nov. 1, 1960; lowest 91.00 below lsd, Aug. 30, Nov. 1, 1963. Records available: 1960-63.

Jan. 2	44.00	Aug. 1	88.00Pm
Feb. 1	87.00Pm	30	91.00Pm
Mar. 1	44.50	Oct. 1	45.00
Apr. 1	45.00	Nov. 1	91.00Pm
May 31	43.00	Dec. 2	47.00
July 1	50.50		

M-2b. (C) City of Wichita. NW SW sec. 29, T 23 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 69 feet. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 20.25 below lsd, May 27, 1940; lowest 50.49 below lsd, Aug. 1, 1957. Records available: 1939-63.

Jan. 2	39.20	July 1	44.35
Feb. 1	37.40Pc	Aug. 1	43.78Pc
Mar. 1	41.66	30	42.70Pc
Apr. 1	42.14	Oct. 1	41.65
May 1	44.05	Nov. 1	46.69Pc
31	38.89	Dec. 2	43.82

M-3. (C) City of Wichita. SE SE sec. 30, T 23 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 234 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 23.12 below lsd, May 27, 1940; lowest 112.00 below lsd, Mar. 1, 1963. Records available: 1939-63.

Jan. 2	42.00	July 1	48.00
Feb. 1	46.00	Aug. 1	48.00
Mar. 1	112.00Pm	30	50.50
Apr. 1	94.00	Oct. 1	47.00
May 1	48.50	Nov. 1	55.00
31	42.00	Dec. 2	102.00Pm

M-3b. (C) City of Wichita. SE SE sec. 30, T 23 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 69

feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 23.91 below lsd, May 27, 1940; lowest 56.09 below lsd, Aug. 1, 1957. Records available: 1939-63.

Jan. 2	41.60	July 1	47.58
Feb. 1	42.99	Aug. 1	46.70
Mar. 1	44.94Pc	30	48.12
Apr. 1	45.72	Oct. 1	44.98
May 1	46.68	Nov. 1	50.38
31	41.26	Dec. 2	47.75Pc

M-4. (C) City of Wichita. SE SE SW sec. 29, T 23 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 238 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 23.20 below lsd, May 8, 1939; lowest 126.50 below lsd, Aug. 2, 1954. Records available: 1939-63.

Jan. 2	40.00	July 1	117.00Pm
Feb. 1	115.50Pm	Aug. 1	47.00
Mar. 1	42.00	30	122.00Pm
Apr. 1	41.00	Oct. 1	45.00
May 1	119.00Pm	Nov. 1	120.00Pm
31	40.50	Dec. 2	46.00

M-4b. (C) City of Wichita. SE SW sec. 29, T 23 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 97 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 23.13 below lsd, May 27, 1940; lowest 61.88 below lsd, Aug. 1, 1957. Records available: 1939-63.

Jan. 2	40.86	July 1	52.29Pc
Feb. 1	48.54Pc	Aug. 1	47.60
Mar. 1	42.72	30	53.89Pc
Apr. 1	42.48	Oct. 1	45.03
May 1	50.89Pc	Nov. 1	54.72Pc
31	40.64	Dec. 2	45.10

M-5. (C) City of Wichita. NW SW sec. 32, T 23 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 237 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 20.33 below lsd, May 16, 1939; lowest 150.00 below lsd, Mar. 1, 1955. Records available: 1939-63.

Jan. 2	36.50	July 1	45.50
Feb. 1	40.00	Aug. 1	47.00
Mar. 1	38.00	30	43.00
Apr. 1	38.00	Oct. 1	131.00Pm
May 1	46.00	Nov. 1	135.50Pm
31	129.00Pm	Dec. 2	42.50

M-5b. (C) City of Wichita. NW SW sec. 32, T 23 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 59 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 17.82 below lsd, May 27, 1940; lowest 43.00 below lsd, Feb. 27, 1947. Records available: 1939-63.

Jan. 2	35.22	July 1	36.54
Feb. 1	33.98	Aug. 1	36.43
Mar. 1	34.70	30	36.59
Apr. 1	34.08	Oct. 1	36.02Pc
May 1	35.52	Nov. 1	36.15Pc
31	34.74Pc	Dec. 2	36.24

M-6r. (C) City of Wichita. SW SW sec. 32, T 23 S, R 2 W. Drilled, water-table observation and public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 250 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 33.00 below lsd, Aug. 1, 1961, Aug. 31, 1962; lowest 111.00 below lsd, Dec. 2, 1963. Records available: 1959-63.

Jan. 2	99.00Pm	July 1	105.00Pm
Feb. 1	37.50	Aug. 1	107.50Pm
Mar. 1	101.50Pm	30	108.00Pm
Apr. 1	35.50	Oct. 1	36.00
May 1	106.00Pm	Nov. 1	37.00
31	38.00	Dec. 2	111.00Pm

M-6b. (C) City of Wichita. SW SW sec. 32, T 23 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1½ inches, depth 51 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 18.46 below lsd, June 3, 1940; lowest 41.55 below lsd, July 31, 1953. Records available: 1939-63.

Jan. 2	36.80Pc	July 1	37.85Pc
Feb. 1	35.43	Aug. 1	37.70Pc
Mar. 1	36.13Pc	30	37.87Pc
Apr. 1	35.40	Oct. 1	37.28
May 1	36.75Pc	Nov. 1	37.15
31	36.18	Dec. 2	37.63Pc

M-7r. (C) City of Wichita. SE NE sec. 6, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 252 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 35.50 below lsd, June 3, 1963; lowest 133.00 below lsd, Sept. 2, 1958. Records available: 1957-63.

Jan. 2	103.00Pm	July 1	104.00Pm
Feb. 1	102.00Pm	Aug. 1	39.00
Mar. 1	39.00	30	40.00
Apr. 1	35.50	Oct. 1	103.00Pm
May 1	39.50	Nov. 1	39.00
31	102.00Pm	Dec. 2	40.00

M-7b. (C) City of Wichita. SE NE sec. 6, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1½ inches, depth 54 feet. Measuring point, top of pipe, 3.87 feet above lsd. Highest water level 13.30 below lsd, June 3, 1940; lowest 40.51 below lsd, Dec. 5, 1957. Records available: 1939-63.

Jan. 2	32.73Pc	July 1	33.07Pc
Feb. 1	32.39Pc	Aug. 1	33.33
Mar. 1	32.12	30	33.57
Apr. 1	31.94	Oct. 1	33.53Pc
May 1	32.25	Nov. 1	33.25
31	32.49Pc	Dec. 2	33.43

M-7d. (C) City of Wichita. SE NE sec. 6, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 255 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 39.09 below lsd, Apr. 1, 1963; lowest 65.84 below lsd, Jan. 31, 1958. Records available: 1957-63.

Jan. 2	59.92Pc	July 1	62.14Pc
Feb. 1	58.66Pc	Aug. 1	43.97
Mar. 1	42.23	30	44.25
Apr. 1	39.09	Oct. 1	60.03Pc
May 1	43.80	Nov. 1	43.40
31	58.99Pc	Dec. 2	43.25

M-8r. (C) City of Wichita. NW NW sec. 8, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 220 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 30.50 below lsd, Apr. 1, 1963; lowest 70.00 below lsd, May 1, 1961. Records available: 1959-63.

Jan. 2	31.00	July 1	67.50Pm
Feb. 1	31.00	Aug. 1	65.50Pm
Mar. 1	31.00	30	66.50Pm
Apr. 1	30.50	Oct. 1	32.00
May 1	31.00	Nov. 1	67.00Pm
31	31.50	Dec. 2	33.00

M-8b. (C) City of Wichita. NW NW sec. 8, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 51 feet. Measuring point, top of pipe, 1.10 feet above lsd. Highest water level 9.12 below lsd, May 27, 1940; lowest 37.02 below lsd, July 1, 1958. Records available: 1939-63.

Jan. 2	29.03	July 1	29.59Pc
Feb. 1	29.16	Aug. 1	30.15Pc
Mar. 1	28.80	30	30.80Pc
Apr. 1	28.80	Oct. 1	30.39
May 1	28.91	Nov. 1	30.69Pc
31	29.14	Dec. 2	30.50

M-9. (C) City of Wichita. SW NW sec. 8, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age, diameter 18 inches, depth 228 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 7.11 below lsd, May 27, 1940; lowest 77.50 below lsd, Mar. 1, 1956. Records available: 1939-63.

Jan. 2	28.00	July 1	27.00
Feb. 1	71.00Pm	Aug. 1	71.00Pm
Mar. 1	60.50Pm	30	72.00Pm
Apr. 1	69.00Pm	Oct. 1	71.00Pm
May 1	27.50	Nov. 1	29.50
31	70.00Pm	Dec. 2	29.00

M-9b. (C) City of Wichita. SW NW sec. 8, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 51 feet. Measuring point, top of pipe, 0.80 foot above lsd.

HARVEY COUNTY—continued

Highest water level 7.67 below lsd, May 27, 1940; lowest 36.33 below lsd, Nov. 30, 1956. Records available: 1939-63.

Jan. 2	27.56	July 1	28.00
Feb. 1	28.65Pc	Aug. 1	29.37Pc
Mar. 1	28.02Pc	30	30.05Pc
Apr. 1	28.22Pc	Oct. 1	29.80Pc
May 1	27.57	Nov. 1	29.39
31	28.74Pc	Dec. 2	29.29

M-10r. (C) City of Wichita. NE NW sec. 8, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 237 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 30.34 below lsd, Apr. 1, 1957; lowest 100.00 below lsd, June 1, 1960. Records available: 1957-63.

Jan. 2	33.00	July 1	37.00
Feb. 1	35.00	Aug. 1	37.00
Mar. 1	97.00Pm	30	36.50
Apr. 1	34.50	Oct. 1	36.00
May 1	99.00Pm	Nov. 1	37.00
31	35.00	Dec. 2	99.50Pm

M-10b. (C) City of Wichita. NE NW sec. 8, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 51 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 10.44 below lsd, May 27, 1940; lowest 39.45 below lsd, July 1, 1958. Records available: 1939-63.

Jan. 2	30.86	July 1	31.10
Feb. 1	30.78	Aug. 1	31.85
Mar. 1	30.92Pc	30	32.20
Apr. 1	30.37	Oct. 1	32.08
May 1	30.96Pc	Nov. 1	32.35
31	30.61	Dec. 2	32.95Pc

M-10d. (C) City of Wichita. NE NE NW sec. 8, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 230 feet. Measuring point, top of pipe, 0.30 foot above lsd. Highest water level 34.02 below lsd, Apr. 1, 1963; lowest 65.14 below lsd, Dec. 5, 1957. Records available: 1957-63.

Jan. 2	34.70	July 1	37.13
Feb. 1	35.34	Aug. 1	38.09
Mar. 1	59.70Pc	30	36.33
Apr. 1	34.02	Oct. 1	36.35
May 1	59.95Pc	Nov. 1	37.58
31	35.13	Dec. 2	61.15Pc

M-11. (C) City of Wichita. NW SE sec. 8, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 248 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 9.74 below lsd, May 27, 1940; lowest 92.00 below lsd, Sept. 30, 1955. Records available: 1939-63.

Jan. 2	30.17	July 1	31.23
Feb. 1	30.24	Aug. 1	32.35
Mar. 1	29.93	30	32.13
Apr. 1	30.37	Oct. 1	32.25
May 1	30.43	Nov. 1	32.70
31	30.15	Dec. 2	32.25

M-11b. (C) City of Wichita. NW SE sec. 8, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 51 feet. Measuring point, top of pipe, 0.80 foot below lsd. Highest water level 8.49 below lsd, May 27, 1940; lowest 41.20 below lsd, Oct. 1, 1956. Records available: 1939-63.

Jan. 2	30.58	July 1	30.85
Feb. 1	30.45	Aug. 1	31.46
Mar. 1	30.35	30	31.89
Apr. 1	30.46	Oct. 1	32.04
May 1	30.37	Nov. 1	32.42
31	30.50	Dec. 2	32.22

M-12. (C) City of Wichita. NW SW sec. 9, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 236 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 11.41 below lsd, Aug. 21, 1939; lowest 103.00 below lsd, May 31, Sept. 2, 1957. Records available: 1939-63.

Jan. 2	31.00	July 1	92.00Pm
Feb. 1	31.00	Aug. 1	81.50Pm
Mar. 1	33.00	30	34.50
Apr. 1	93.50Pm	Oct. 1	35.00
May 1	31.50	Nov. 1	84.00Pm
31	30.50	Dec. 2	34.50

M-12b. (C) City of Wichita. NW SW sec. 9, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 69 feet. Measuring point, top of pipe, 0.70 foot above lsd. Highest water level 11.70 below lsd, Aug. 21, 1939, Nov. 27, 1940; lowest 47.92 below lsd, Dec. 1, 1958. Records available: 1939-63.

Jan. 2	31.28	July 1	38.08Pc
Feb. 1	31.70	Aug. 1	40.92Pc
Mar. 1	33.52	30	33.47
Apr. 1	36.45Pc	Oct. 1	34.41
May 1	32.70	Nov. 1	41.04Pc
31	32.14	Dec. 2	33.51

M-13. (C) City of Wichita. NW NE sec. 17, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 245 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 8.27 below lsd, Aug. 21, 1939; lowest 75.00 below lsd, Aug. 1, 31, Nov. 1, 1962. Records available: 1939-63.

Jan. 2	74.00Pm	July 1	68.00Pm
Feb. 1	73.00Pm	Aug. 1	70.00Pm
Mar. 1	28.65	30	70.00Pm
Apr. 1	29.00	Oct. 1	70.00Pm
May 1	67.50Pm	Nov. 1	30.00
31	28.50	Dec. 2	70.50Pm

M-13b. (C) City of Wichita. NW NE sec. 17, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 51 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 7.63 below lsd, May 27, 1940; lowest 37.56 below lsd, Aug. 31, 1956. Records available: 1939-63.

Jan. 2	27.87Pc	July 1	28.30Pc
Feb. 1	27.88Pc	Aug. 1	29.05Pc
Mar. 1	27.40	30	29.30Pc
Apr. 1	27.82	Oct. 1	29.42Pc
May 1	27.85Pc	Nov. 1	29.46
31	27.78	Dec. 2	29.39Pc

M-14r. (C) City of Wichita. NW NW sec. 16, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 204 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 28.00 below lsd, Oct. 1, Dec. 3, 1962, Jan. 2, 1963; lowest 63.00 below lsd, Nov. 1, 1963. Records available: 1960-63.

Jan. 2	28.00	July 1	33.00
Feb. 1	31.50	Aug. 1	61.00Pm
Mar. 1	60.00Pm	30	33.50
Apr. 1	62.00Pm	Oct. 1	35.50
May 1	32.00	Nov. 1	63.00Pm
31	59.00Pm	Dec. 2	32.00

M-14b. (C) City of Wichita. SW SW sec. 9, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 57 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 8.16 below lsd, May 13, 27, June 3, 1940; lowest 49.26 below lsd, July 1, 1958. Records available: 1939-63.

Jan. 2	27.93	July 1	28.55
Feb. 1	28.00	Aug. 1	29.34Pc
Mar. 1	28.32Pc	30	29.42
Apr. 1	28.39Pc	Oct. 1	29.55
May 1	27.96	Nov. 1	30.15Pc
31	27.84Pc	Dec. 2	29.51

M-15r. (C) City of Wichita. NW cor. SW sec. 16, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 244 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 19.00 below lsd, May 31, 1963; lowest 52.00 below lsd, Dec. 1, 1960, Nov. 1, 1962. Records available: 1960-63.

Jan. 2	30.00	July 1	30.00
Feb. 1	51.00Pm	Aug. 1	30.00
Mar. 1	31.00	30	48.00Pm
Apr. 1	32.00	Oct. 1	49.50Pm
May 1	47.00Pm	Nov. 1	31.00
31	19.00	Dec. 2	31.00

M-15b. (C) City of Wichita. SW NW sec. 16, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth

51 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 11.24 below lsd, Aug. 21, 1939; lowest 40.12 below lsd, Mar. 1, 1957. Records available: 1939-63.

Jan. 2	29.81	July 1	29.99
Feb. 1	30.44Pc	Aug. 1	31.22
Mar. 1	30.31	30	32.89Pc
Apr. 1	30.54	Oct. 1	31.90Pc
May 1	30.54Pc	Nov. 1	30.62
31	30.40	Dec. 2	30.81

M-16. (C) City of Wichita. SE NE sec. 9, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 193 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 13.92 below lsd, Apr. 17, 1939; lowest 105.50 below lsd, June 1, 1955. Records available: 1939-63.

Jan. 2	71.00Pm	July 1	34.00
Feb. 1	70.00Pm	Aug. 1	34.00
Mar. 1	72.00Pm	30	71.50Pm
Apr. 1	31.50	Oct. 1	72.50Pm
May 1	72.00Pm	Nov. 1	35.00
31	33.00	Dec. 2	31.00

M-16b. (C) City of Wichita. SE NE sec. 9, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 62 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 13.45 below lsd, May 27, 1940; lowest 47.30 below lsd, Aug. 1, 1956. Records available: 1939-63.

Jan. 2	34.52Pc	July 1	33.80
Feb. 1	34.38Pc	Aug. 1	34.25
Mar. 1	34.82Pc	30	34.83Pc
Apr. 1	31.22	Oct. 1	37.10Pc
May 1	35.25Pc	Nov. 1	34.20
31	32.53	Dec. 2	30.74

M-17. (C) City of Wichita. SE SE sec. 9, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 193 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 10.71 below lsd, Aug. 21, 1939; lowest 96.00 below lsd, Apr. 2, 1962. Records available: 1939-63.

Jan. 2	30.00	July 1	89.50Pm
Feb. 1	30.00	Aug. 1	92.00Pm
Mar. 1	30.00	30	30.00
Apr. 1	90.50Pm	Oct. 1	31.00
May 1	30.00	Nov. 1	96.00Pm
31	90.00Pm	Dec. 2	29.00

M-17b. (C) City of Wichita. SE SE sec. 9, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 56 feet. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 11.02 below lsd, May 27, 1940; lowest 38.28 below lsd, May 31, 1957. Records available: 1939-63.

HARVEY COUNTY—*continued*

Jan. 2	28.30	July 1	29.58Pc
Feb. 1	27.69	Aug. 1	29.96Pc
Mar. 1	27.89	30	29.63
Apr. 1	28.34Pc	Oct. 1	29.89
May 1	28.35	Nov. 1	30.48Pc
31	29.61Pc	Dec. 2	29.32

M-18. (C) City of Wichita. NE SE sec. 16, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 186 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 6.58 below lsd, Aug. 21, 1939; lowest 68.50 below lsd, Nov. 1, 1962, Apr. 1, 1963. Records available: 1939-63.

Jan. 2	66.00Pm	July 1	68.00Pm
Feb. 1	65.50Pm	Aug. 1	22.50
Mar. 1	22.50	30	68.00Pm
Apr. 1	68.50Pm	Oct. 1	65.00Pm
May 1	23.00	Nov. 1	23.00
31	24.00	Dec. 2	64.50Pm

M-18b. (C) City of Wichita. NE SE sec. 16, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1½ inches, depth 51 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 4.01 below lsd, Aug. 21, 1939; lowest 35.48 below lsd, Mar. 1, 1956. Records available: 1939-63.

Jan. 2	19.48Pc	July 1	21.00Pc
Feb. 1	19.74Pc	Aug. 1	20.47
Mar. 1	19.81	30	21.05Pc
Apr. 1	20.34Pc	Oct. 1	21.16Pc
May 1	20.43	Nov. 1	20.51
31	20.79	Dec. 2	20.82Pc

M-19. (C) City of Wichita. SE SW sec. 22, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 158 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 10.00 below lsd, Aug. 21, 1939; lowest 71.00 below lsd, Oct. 1, 1956. Records available: 1939-63.

Jan. 2	65.00Pm	July 1	66.00Pm
Feb. 1	65.00Pm	Aug. 1	26.00
Mar. 1	66.00Pm	30	28.00
Apr. 1	26.00	Oct. 1	26.50
May 1	27.00	Nov. 1	27.00
31	69.00Pm	Dec. 2	27.00

M-19b. (C) City of Wichita. SE SW sec. 22, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1½ inches, depth 63 feet. Measuring point, top of pipe, 1.20 feet above lsd. Highest water level 9.38 below lsd, Aug. 21, 1939; lowest 37.58 below lsd, May 1, 1957. Records available: 1939-63.

Jan. 2	30.26Pc	July 1	31.70Pc
Feb. 1	30.81Pc	Aug. 1	25.71
Mar. 1	31.32Pc	30	26.39
Apr. 1	24.92	Oct. 1	25.66
May 1	26.18	Nov. 1	25.93
31	31.75Pc	Dec. 2	26.58

M-20. (C) City of Wichita. NE NE sec. 27, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 145 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 10.82 below lsd, Aug. 21, 1939; lowest 88.00 below lsd, Mar. 1, 1956. Records available: 1939-63.

Jan. 2	24.00	July 1	24.00
Feb. 1	23.00	Aug. 1	24.00
Mar. 1	22.00	30	52.50Pm
Apr. 1	22.00	Oct. 1	25.00
May 1	52.00Pm	Nov. 1	54.00Pm
31	24.00	Dec. 2	54.50Pm

M-20b. (C) City of Wichita. NE NE sec. 27, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1½ inches, depth 51 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 11.47 below lsd, Aug. 21, 1939; lowest 35.86 below lsd, Mar. 1, 1956. Records available: 1939-63.

Jan. 2	24.40	July 1	27.66
Feb. 1	24.30	Aug. 1	26.05
Mar. 1	24.54	30	26.17Pc
Apr. 1	24.56	Oct. 1	25.85
May 1	26.07Pc	Nov. 1	26.24Pc
31	25.76	Dec. 2	26.48Pc

M-21. (C) City of Wichita. SW SW sec. 26, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 80 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 8.32 below lsd, Aug. 21, 1939; lowest 65.00 below lsd, Oct. 31, 1958. Records available: 1939-63.

Jan. 2	22.50	July 1	31.00Pm
Feb. 1	21.00	Aug. 1	22.00
Mar. 1	30.50Pm	30	32.00Pm
Apr. 1	22.00	Oct. 1	23.50
May 1	22.00	Nov. 1	32.00Pm
31	30.00Pm	Dec. 2	23.50

M-21b. (C) City of Wichita. SW SW sec. 26, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1½ inches, depth 51 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 8.08 below lsd, Aug. 21, 1939; lowest 31.65 below lsd, May 1, 1957. Records available: 1939-63.

Jan. 2	20.88	July 1	24.20Pc
Feb. 1	20.49	Aug. 1	22.68
Mar. 1	23.17Pc	30	24.48Pc
Apr. 1	21.80	Oct. 1	23.24
May 1	22.34	Nov. 1	17.94Pc
31	23.55Pc	Dec. 2	23.22

M-22r. (C) City of Wichita. SW SW SE sec. 26, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 188 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 21.00 below lsd, Nov. 1, 1962; lowest 86.00 below lsd, Dec. 1, 1960. Records available: 1960-63.

Jan. 2	80.00Pm	July 1	24.00
Feb. 1	83.00Pm	Aug. 1	22.00
Mar. 1	23.00	30	22.00
Apr. 1	84.00Pm	Oct. 1	82.00Pm
May 1	84.00Pm	Nov. 1	23.00
31	24.00	Dec. 2	82.00Pm

M-22b. (C) City of Wichita. SE SW sec. 26, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 50 feet. Measuring point, top of pipe, 0.90 foot above lsd. Highest water level 9.28 below lsd, Aug. 21, 1939; lowest 34.04 below lsd, Aug. 1, 1957. Records available: 1939-63.

Jan. 2	21.91Pc	July 1	23.72
Feb. 1	21.77Pc	Aug. 1	23.36
Mar. 1	22.54	30	23.94
Apr. 1	22.94Pc	Oct. 1	23.88Pc
May 1	23.30Pc	Nov. 1	24.02
31	23.24	Dec. 2	24.28Pc

M-23. (C) City of Wichita. SE NE sec. 35, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 205 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 7.85 below lsd, Aug. 21, 1939; lowest 89.00 below lsd, Mar. 31, 1952. Records available: 1939-63.

Jan. 2	20.00	July 1	21.00
Feb. 1	20.00	Aug. 1	22.00
Mar. 1	55.00Pm	30	56.00Pm
Apr. 1	21.00	Oct. 1	25.00
May 1	56.00Pm	Nov. 1	23.00
31	21.00	Dec. 2	23.00

M-23b. (C) City of Wichita. SE NE sec. 35, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 51 feet. Measuring point, top of pipe, 1.10 feet above lsd. Highest water level 7.50 below lsd, Aug. 21, 1939; lowest 32.71 below lsd, May 1, 1957. Records available: 1939-63.

Jan. 2	19.05	July 1	20.70
Feb. 1	18.84	Aug. 1	20.75
Mar. 1	19.98Pc	30	21.76Pc
Apr. 1	19.70	Oct. 1	21.20
May 1	20.79Pc	Nov. 1	21.33
31	20.30	Dec. 2	21.53

M-24. (C) City of Wichita. SE SE sec. 35, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 97

feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 8.71 below lsd, Aug. 21, 1939; lowest 64.50 below lsd, Mar. 1, 1957. Records available: 1939-63.

Jan. 2	20.00	July 1	43.00Pm
Feb. 1	20.00	Aug. 1	22.00
Mar. 1	20.00	30	44.00Pm
Apr. 1	21.00	Oct. 1	22.00
May 1	21.00	Nov. 1	23.00
31	21.57	Dec. 2	23.00

M-24b. (C) City of Wichita. SE SE sec. 35, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 51 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 11.17 below lsd, Aug. 28, 1939; lowest 37.05 below lsd, May 1, 1957. Records available: 1939-63.

Jan. 2	22.28	July 1	24.60Pc
Feb. 1	22.18	Aug. 1	23.91
Mar. 1	22.38	30	24.17Pc
Apr. 1	22.76	Oct. 1	24.48
May 1	23.35	Nov. 1	24.92
31	23.22	Dec. 2	24.78

M-25. (C) City of Wichita. SW SE sec. 36, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 189 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 5.54 below lsd, Aug. 21, 1939; lowest 63.50 below lsd, Aug. 1, 1961. Records available: 1939-63.

Jan. 2	16.00	July 1	49.00Pm
Feb. 1	46.00Pm	Aug. 1	49.00Pm
Mar. 1	17.00	30	20.00
Apr. 1	48.00Pm	Oct. 1	19.00
May 1	19.00	Nov. 1	19.00
31	17.00	Dec. 2	19.00

M-26. (C) City of Wichita. SW NW sec. 22, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 195 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 13.96 below lsd, July 8, 1949; lowest 91.00 below lsd, May 2, 1955. Records available: 1949-63.

Jan. 2	22.00	July 1	24.00
Feb. 1	69.00Pm	Aug. 1	70.00Pm
Mar. 1	69.00Pm	30	71.00Pm
Apr. 1	22.00	Oct. 1	74.00Pm
May 1	23.00	Nov. 1	72.00Pm
31	23.00	Dec. 2	23.00

M-26b. (C) City of Wichita. SW NW sec. 22, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 79 feet. Measuring point, top of pipe, 2.20 feet above lsd. Highest water level 11.62 below lsd, July 7, 1948; lowest 31.14 below lsd, Apr. 1, 1957. Records available: 1947-63.

HARVEY COUNTY—continued

Jan. 2	20.43	July 1	21.98
Feb. 1	20.91Pc	Aug. 1	21.96Pc
Mar. 1	21.36Pc	30	22.02Pc
Apr. 1	21.10	Oct. 1	21.94Pc
May 1	21.52	Nov. 1	21.44Pc
31	21.84	Dec. 2	21.43

M-41. (C) City of Wichita. NE NE sec. 11, T 24 S, R 3 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 236 feet. Measuring point, top of casing, 2.50 feet above lsd. Highest water level 21.50 below lsd, Mar. 1, 1961; lowest 131.50 below lsd, July 1, 1963. Records available: 1958-63.

Jan. 2	125.00Pm	July 1	131.50Pm
Feb. 1	32.50	Aug. 1	33.50
Mar. 1	123.50Pm	30	125.50Pm
Apr. 1	121.50Pm	Oct. 1	39.50
May 1	123.50Pm	Nov. 1	125.50Pm
31	124.50Pm	Dec. 2	36.50

M-41b. (C) City of Wichita. NE NE sec. 11, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 40 feet. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 11.60 below lsd, Nov. 1, 1958; lowest 14.03 below lsd, Jan. 1, 1961, Nov. 1, 1963. Records available: 1958-63.

Jan. 2	12.65Pc	July 1	13.50Pc
Feb. 1	12.68	Aug. 1	13.65
Mar. 1	12.78Pc	30	13.88Pc
Apr. 1	12.85Pc	Oct. 1	13.97
May 1	13.12Pc	Nov. 1	14.03Pc
31	13.32Pc	Dec. 2	13.97

M-41d. (C) City of Wichita. NE cor. sec. 11, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 223 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 17.63 below lsd, May 1, 1959; lowest 72.34 below lsd, July 1, 1963. Records available: 1957-63.

Jan. 2	61.22Pc	July 1	72.34Pc
Feb. 1	34.67	Aug. 1	36.77
Mar. 1	61.06Pc	30	63.61Pc
Apr. 1	60.85Pc	Oct. 1	41.17
May 1	61.22Pc	Nov. 1	63.26Pc
31	62.28Pc	Dec. 2	38.25

M-42. (C) City of Wichita. SE NE sec. 11, T 24 S, R 3 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 259 feet. Measuring point, top of casing, 3.00 feet above lsd. Highest water level 24.50 below lsd, Dec. 31, 1958; lowest 122.42 below lsd, July 1, 1963. Records available: 1958-63.

Jan. 2	38.74	July 1	122.42Pm
Feb. 1	114.02Pm	Aug. 1	114.60Pm
Mar. 1	38.77	30	43.38
Apr. 1	39.30	Oct. 1	117.76Pm
May 1	39.39	Nov. 1	42.72
31	40.45	Dec. 2	117.40Pm

M-42b. (C) City of Wichita. SE NE sec. 11, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 40 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 13.46 below lsd, Oct. 2, 1958; lowest 23.46 below lsd, Nov. 1, 1958. Records available: 1958-63.

Jan. 2	15.50	July 1	16.48Pc
Feb. 1	15.55Pc	Aug. 1	17.17Pc
Mar. 1	15.72	30	17.60
Apr. 1	15.95	Oct. 1	17.45Pc
May 1	16.32	Nov. 1	17.53
31	16.66	Dec. 2	17.54Pc

M-42d. (C) City of Wichita. SE NE sec. 11, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 247 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 24.75 below lsd, Dec. 31, 1958; lowest 77.79 below lsd, July 1, 1963. Records available: 1958-63.

Jan. 2	38.56	July 1	77.79Pc
Feb. 1	65.78Pc	Aug. 1	67.36Pc
Mar. 1	38.58	30	43.54
Apr. 1	39.15	Oct. 1	71.60Pc
May 1	39.20	Nov. 1	42.95
31	40.35	Dec. 2	70.75Pc

M-43. (C) City of Wichita. SE SE sec. 11, T 24 S, R 3 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 244 feet. Measuring point, top of casing, 3.00 feet above lsd. Highest water level 13.20 below lsd, Feb. 2, 1959; lowest 73.27 below lsd, Dec. 2, 1963. Records available: 1958-63.

Jan. 2	15.82	July 1	19.65
Feb. 1	16.90	Aug. 1	20.30
Mar. 1	16.26	30	71.33Pm
Apr. 1	17.56	Oct. 1	21.06
May 1	18.07	Nov. 1	71.65Pm
31	18.77	Dec. 2	73.27Pm

M-43d. (C) City of Wichita. SE SE sec. 11, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 235 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 21.33 below lsd, Nov. 1, 1958; lowest 52.23 below lsd, May 1, 1959. Records available: 1958-63.

Jan. 2	28.72	July 1	41.02
Feb. 1	34.53	Aug. 1	36.40
Mar. 1	28.82	30	46.04Pc
Apr. 1	29.73	Oct. 1	39.98
May 1	29.67	Nov. 1	45.48Pc
31	30.80	Dec. 2	52.10Pc

M-44. (C) City of Wichita. SW SE sec. 11, T 24 S, R 3 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 143 feet. Measuring point, top of casing, 3.00 feet above lsd. Highest water level 9.10 below lsd, Dec. 31, 1958; lowest 48.52 below lsd, May 31, 1963. Records available: 1958-63.

Jan. 2	11.09	July 1	12.30
Feb. 1	11.58	Aug. 1	47.85Pm
Mar. 1	11.83	30	13.80
Apr. 1	45.15Pm	Oct. 1	48.04Pm
May 1	46.26Pm	Nov. 1	13.96
31	48.52Pm	Dec. 2	14.02

M-44b. (C) City of Wichita. SW SE sec. 11, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 53 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 8.65 below lsd, Oct. 2, 1958; lowest 20.82 below lsd, Oct. 1, 1963. Records available: 1958-63.

Jan. 2	10.96	July 1	12.16
Feb. 1	11.45	Aug. 1	20.80Pc
Mar. 1	11.73	30	13.28
Apr. 1	19.20Pc	Oct. 1	20.82Pc
May 1	19.95Pc	Nov. 1	13.46
31	20.35Pc	Dec. 2	13.53

M-44d. (C) City of Wichita. SW SE sec. 11, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 144 feet. Measuring point, top of pipe, 0.70 foot above lsd. Highest water level 9.40 below lsd, Oct. 2, 1958; lowest 24.73 below lsd, Oct. 1, 1963. Records available: 1958-63.

Jan. 2	11.58	July 1	12.78
Feb. 1	11.95	Aug. 1	24.60Pc
Mar. 1	12.27	30	14.78
Apr. 1	22.88Pc	Oct. 1	24.73Pc
May 1	23.66Pc	Nov. 1	14.80
31	24.14Pc	Dec. 2	14.95

M-45. (C) City of Wichita. NE SE sec. 23, T 24 S, R 3 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 167 feet. Measuring point, top of casing, 3.00 feet above lsd. Highest water level 12.27 below lsd, Dec. 31, 1958; lowest 63.16 below lsd, May 31, 1963. Records available: 1958-63.

Jan. 2	14.80	July 1	18.35
Feb. 1	15.02	Aug. 1	63.14Pm
Mar. 1	17.50	30	62.55Pm
Apr. 1	59.56Pm	Oct. 1	62.27Pm
May 1	60.22Pm	Nov. 1	19.92
31	63.16Pm	Dec. 2	62.65Pm

M-45b. (C) City of Wichita. NE SE sec. 23, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 41 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 8.64 below lsd, Oct. 2, 1958; lowest 14.35 below lsd, Dec. 2, 1963. Records available: 1958-63.

Jan. 2	11.54	July 1	13.60
Feb. 1	11.91	Aug. 1	13.72Pc
Mar. 1	12.05	30	14.15Pc
Apr. 1	12.52Pc	Oct. 1	14.08Pc
May 1	12.90Pc	Nov. 1	14.18
31	13.33Pc	Dec. 2	14.35Pc

M-45d. (C) City of Wichita. NE SE sec. 23, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 152 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 14.08 below lsd, Oct. 2, 1958; lowest 44.30 below lsd, Aug. 30, 1963. Records available: 1958-63.

Jan. 2	17.57	July 1	23.04
Feb. 1	17.90	Aug. 1	44.16Pc
Mar. 1	22.68	30	44.30Pc
Apr. 1	38.11Pc	Oct. 1	40.77Pc
May 1	38.56Pc	Nov. 1	25.28
31	44.10Pc	Dec. 2	40.85Pc

M-46. (C) City of Wichita. SE SE sec. 23, T 24 S, R 3 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 109 feet. Measuring point, top of casing, 3.00 feet above lsd. Highest water level 10.43 below lsd, Aug. 1, 1962; lowest 47.17 below lsd, Oct. 1, 1963. Records available: 1958-63.

Jan. 2	44.73Pm	July 1	47.00Pm
Feb. 1	44.36Pm	Aug. 1	15.62
Mar. 1	13.68	30	16.58
Apr. 1	12.73	Oct. 1	47.17Pm
May 1	14.12	Nov. 1	17.38
31	15.09	Dec. 2	15.64

M-46b. (C) City of Wichita. SE SE sec. 23, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 50 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 9.80 below lsd, Oct. 2, 1958; lowest 16.84 below lsd, July 1, 1963. Records available: 1958-63.

Jan. 2	14.53Pc	July 1	16.84Pc
Feb. 1	15.04Pc	Aug. 1	15.05
Mar. 1	13.20	30	15.65
Apr. 1	13.45	Oct. 1	16.34Pc
May 1	13.83	Nov. 1	16.60
31	14.61	Dec. 2	15.40

M-46d. (C) City of Wichita. SE SE sec. 23, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 109 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 10.35 below lsd, Dec. 1, 1958; lowest 34.22 below lsd, July 1, 1959. Records available: 1958-63.

Jan. 2	26.35Pc	July 1	31.32Pc
Feb. 1	26.50Pc	Aug. 1	31.30
Mar. 1	23.39	30	31.17
Apr. 1	24.02	Oct. 1	32.80Pc
May 1	24.50	Nov. 1	27.03
31	31.40	Dec. 2	26.52

M-47. (C) City of Wichita. SW SE sec. 24, T 24 S, R 3 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 146 feet. Measuring point, top of casing 2.00 feet above lsd. Highest water level 17.63 below lsd, Feb. 2, 1959; lowest 79.83 below lsd, May 31, 1963. Records available: 1958-63.

HARVEY COUNTY—concluded

Jan. 2	18.39	July 1	76.19Pm
Feb. 1	18.65	Aug. 1	79.32Pm
Mar. 1	76.05Pm	30	78.66Pm
Apr. 1	21.62	Oct. 1	24.78
May 1	21.91	Nov. 1	77.07Pm
31	79.83Pm	Dec. 2	74.80Pm

M-47b. (C) City of Wichita. SW SE sec. 24, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 46 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 10.85 below lsd, July 3, 1958; lowest 18.64 below lsd, Dec. 2, 1963. Records available: 1958-63.

Jan. 2	15.08	July 1	17.63Pc
Feb. 1	15.39	Aug. 1	17.72Pc
Mar. 1	16.26Pc	30	18.14Pc
Apr. 1	16.09	Oct. 1	17.82
May 1	16.43	Nov. 1	18.57Pc
31	17.58Pc	Dec. 2	18.64Pc

M-47d. (C) City of Wichita. SW SE sec. 24, T 24 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 128 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 13.61 below lsd, Oct. 2, 1958; lowest 52.02 below lsd, May 31, 1963. Records available: 1958-63.

Jan. 2	18.92	July 1	47.84Pc
Feb. 1	19.10	Aug. 1	51.77Pc
Mar. 1	48.57Pc	30	51.72Pc
Apr. 1	22.01	Oct. 1	18.07
May 1	22.22	Nov. 1	49.90Pc
31	52.02Pc	Dec. 2	46.92Pc

M-48. (C) City of Wichita. NE SE sec. 28, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 256 feet. Measuring point, top of casing, 3.00 feet above lsd. Highest water level 24.30 below lsd, Dec. 31, 1958, Feb. 2, 1959; lowest 86.51 below lsd, Dec. 2, 1963. Records available: 1958-63.

Jan. 2	25.76	July 1	30.58
Feb. 1	27.72	Aug. 1	28.62
Mar. 1	84.05Pm	30	27.72
Apr. 1	27.74	Oct. 1	28.76
May 1	84.84Pm	Nov. 1	27.42
31	28.65	Dec. 2	86.51Pm

M-48b. (C) City of Wichita. NE SE sec. 28, T 24 S, R 2 W. Bored, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 52 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 23.35 below lsd, Feb. 2, 1959; lowest 30.57 below lsd, Dec. 1, 1959. Records available: 1958-63.

Jan. 2	24.92	July 1	26.51
Feb. 1	25.25	Aug. 1	24.69
Mar. 1	25.52Pc	30	27.00
Apr. 1	25.88	Oct. 1	26.74
May 1	26.31Pc	Nov. 1	26.89
31	26.22	Dec. 2	27.15Pc

M-48d. (C) City of Wichita. NE SE sec. 28, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 243 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 24.82 below lsd, May 23, 1958; lowest 54.50 below lsd, Dec. 2, 1963. Records available: 1958-63.

Jan. 2	29.60	July 1	34.36
Feb. 1	31.75	Aug. 1	32.30
Mar. 1	53.10Pc	30	31.54
Apr. 1	31.16	Oct. 1	32.45
May 1	53.28Pc	Nov. 1	31.14
31	32.48	Dec. 2	54.50Pc

M-49. (C) City of Wichita. SE SE sec. 28, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 249 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 24.20 below lsd, Dec. 31, 1958; lowest 63.72 below lsd, July 1, 1963. Records available: 1958-63.

Jan. 2	27.31	July 1	63.72Pm
Feb. 1	59.92Pm	Aug. 1	61.80Pm
Mar. 1	28.20	30	29.52
Apr. 1	60.47Pm	Oct. 1	62.45Pm
May 1	28.75	Nov. 1	29.30
31	61.87Pm	Dec. 2	28.79

M-49b. (C) City of Wichita. SE SE sec. 28, T 24 S, R 2 W. Bored, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 50 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 21.40 below lsd, Dec. 31, 1958; lowest 41.06 below lsd, May 31, 1963. Records available: 1958-63.

Jan. 2	23.37	July 1	24.70Pc
Feb. 1	23.62Pc	Aug. 1	24.75Pc
Mar. 1	23.57	30	25.00
Apr. 1	23.90Pc	Oct. 1	25.05Pc
May 1	24.00	Nov. 1	25.22
31	41.06Pc	Dec. 2	25.20

M-49d. (C) City of Wichita. SE SE sec. 28, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 245 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 23.58 below lsd, Nov. 1, 1958; lowest 43.42 below lsd, July 1, 1963. Records available: 1958-63.

Jan. 2	26.98	July 1	43.42Pc
Feb. 1	39.25Pc	Aug. 1	40.55Pc
Mar. 1	27.84	30	29.15
Apr. 1	39.60Pc	Oct. 1	40.85Pc
May 1	28.42	Nov. 1	28.98
31	23.72Pc	Dec. 2	29.39

M-50. (C) City of Wichita. SW SE sec. 28, T 24 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 250 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 24.31 below lsd, Dec. 31, 1958; lowest 82.38 below lsd, July 1, 1963. Records available: 1958-63.

Jan. 2	80.72Pm	July 1	82.38Pm
Feb. 1	28.10	Aug. 1	29.07
Mar. 1	26.91	30	81.30Pm
Apr. 1	28.17	Oct. 1	29.46
May 1	27.40	Nov. 1	82.33Pm
31	28.90	Dec. 2	28.44

M-50b. (C) City of Wichita. SW SE sec. 28, T 24 S, R 2 W. Bored, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 60 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 21.14 below lsd, Feb. 2, 1959; lowest 28.47 below lsd, May 1, 1963. Records available: 1958-63.

Jan. 2	25.17Pc	July 1	27.65Pc
Feb. 1	24.30	Aug. 1	25.42
Mar. 1	23.60	30	26.97Pc
Apr. 1	24.59	Oct. 1	25.86
May 1	28.47	Nov. 1	26.98Pc
31	27.06	Dec. 2	25.13

M-50d. (C) City of Wichita. SW SE sec. 28, T 24 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 243 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 18.65 below lsd, Jan. 23, 1958; lowest 40.83 below lsd, July 1, 1963. Records available: 1958-63.

Jan. 2	35.74Pc	July 1	40.83Pc
Feb. 1	26.84	Aug. 1	27.90
Mar. 1	24.79	30	37.53Pc
Apr. 1	26.94	Oct. 1	28.19
May 1	25.27	Nov. 1	37.55Pc
31	27.78	Dec. 2	26.35

HASKELL COUNTY

28-32-25cb. (C) Owner unknown. Drilled, unused well in Ogallala Formation; diameter 4 inches, depth 200 feet. Measuring point, ½-inch hole west side of well cover plate, 0.80 foot below lsd. Highest water level 182.08 below lsd, Feb. 12, 1958; lowest 185.13 below lsd, Aug. 22, 1960. Records available: 1956-63. Apr. 17, 184.10; July 17, 184.38; Oct. 7, 184.66; Dec. 9, P.

28-33-22cd. (C) J. C. Barbee. Drilled, abandoned stock well in Ogallala Formation; diameter 4 inches, depth 233 feet. Measuring point, top of steel plate through hole in southwest side, 1.30 feet above lsd. Highest water level 214.78 below lsd, Nov. 13, 1956; lowest 223.59 below lsd, Dec. 9, 1963. Records available: 1956-63. Measurement discontinued.

Jan. 2	223.44	July 9	222.60	Dec. 9	223.59
Apr. 3	222.48	Oct. 2	223.10		

29-32-26cb2. (C) Kelly McClure. Drilled irrigation well in Ogallala Formation; diameter 16 inches, depth 384 feet. Measuring point, 0.70 foot above lsd. Highest water level 199.16 below lsd, Jan. 6, 1961; lowest 202.57 below lsd, Oct. 7, 1963. Records available: 1960-63.

Jan. 14	200.90	July 17	201.81	Dec. 9	P
Apr. 7	P	Oct. 7	202.57		

30-32-11bb. (C) Virgil Watson. Drilled, water-table irrigation well in Ogallala Formation and deposits of Pleistocene age; diameter 16 inches, depth 412 feet. Measuring point, edge of leaning 1½-inch pipe on east side of pumphead base, 0.70 foot above lsd. Highest water level 195.39 below lsd, Apr. 2, 1962; lowest 200.65 below lsd, Oct. 7, 1963. Records available: 1961-63.

Jan. 14	197.54	July 17	P	Dec. 9	200.50
Apr. 17	198.27	Oct. 7	200.65		

HODGEMAN COUNTY

3a. (C) Harold McFadden. SW NW sec. 12, T 21 S, R 2 W. Bored, water-table irrigation well in alluvium; diameter 16 inches, depth 72 feet. Measuring point, hole on inside of northwest corner pump base, 1.74 feet above lsd. Highest water level 28.10 below lsd, Apr. 17, 1962; lowest 34.01 below lsd, Oct. 22, 1963. Records available: 1960-63. Jan. 15, 29.26; July 25, 32.59; Oct. 22, 34.01; Dec. 16, 33.04.

22-22-13cc. (C) Bill Macey. Dug and drilled, water-table irrigation well in alluvium; diameter 60 to 20 inches, depth 50 feet. Measuring point, top of steel channel sill, 1.00 foot above lsd. Highest water level 13.81 below lsd, July 16, 1951; lowest 27.47 below lsd, Nov. 28, 1940. Records available: 1940-55, 1957-63.

Jan. 15	22.25	July 25	25.79	Dec. 16	24.24
Apr. 22	23.15	Oct. 22	24.80		

24-26-35cb. (C) A. C. James. Drilled, water-table stock well in Ogallala Formation; diameter 5½ inches, depth 86 feet. Measuring point, top north side of casing, 0.60 foot above lsd. Highest water level 63.50 below lsd, Jan. 17, 1961; lowest 65.29 below lsd, Oct. 22, 1956. Records available: 1954-63. Jan. 17, 64.02; Apr. 25, 64.69; July 30, 63.88; Dec. 19, 63.77.

JACKSON COUNTY

7-13-3cdd. (C) U.S.G.S. & K.G.S. Bored, water-table observation well in terrace deposits of Wisconsinan age; diameter 1 inch, depth 23 feet. Measuring point, top of pipe, 3.40 feet above lsd. Highest water level 8.12 below lsd, July 24, 1963; lowest 8.52 below lsd, Sept. 24, 1963. Records available: 1963. July 24, 8.12; Sept. 24, 8.52; Nov. 7, 8.37; Dec. 5, 8.19.

7-15-3ca. (C) Fred Shafer. Drilled, unused, water-table well in alluvium; diameter 6 inches, depth 17 feet. Measuring point, top south side of casing, 0.40 foot above lsd. Highest water level 5.79 below lsd, Apr. 13, 1957; lowest 9.70 below lsd, Oct. 27, 1956. Records available: 1948-52, 1956-57, 1960-63. Mar. 26, 6.42; July 26, 6.92; Dec. 5, 7.16.

JACKSON COUNTY—concluded

8-13-1ccdl. (C) U.S.G.S. & K.G.S. Bored, water-table observation well in terrace deposits of Wisconsinan age; diameter 1 inch, depth 42 feet. Measuring point, top of pipe, 4.00 feet above lsd. Highest water level 11.05 below lsd, July 24, 1963; lowest 12.93 below lsd, Dec. 5, 1963. Records available: 1963. July 24, 11.05; Sept. 24, 11.60; Nov. 7, 12.45; Dec. 5, 12.93.

JEFFERSON COUNTY

11-18-21cbd. (C) Division of Water Resources. Driven observation well in alluvium; diameter $\frac{3}{4}$ inch, depth (remeasured 1962) 21 feet. Measuring point, top of pipe, 4.00 feet above lsd. Highest water level 4.92 below lsd, Sept. 27, 1962; lowest 9.68 below lsd, Mar. 1, 1961. Records available: 1959-63.

Jan. 2	6.58	June 3	7.88	Sept. 30	8.93
Feb. 1	7.06	July 1	8.21	Oct. 31	9.15
Mar. 1	7.48	Aug. 1	8.28	Dec. 2	9.32
Apr. 1	7.68	31	8.61	27	9.52
May 1	7.98				

11-19-27bccl. (C) Buck Creek School. Bored observation well in terrace deposits of Pleistocene age; diameter 2 to $1\frac{1}{4}$ inches, depth 57 feet. Measuring point, top of $1\frac{1}{4}$ -inch galv. iron pipe, 1.00 foot above lsd. Highest water level 23.75 below lsd, Sept. 18, 1962; lowest 27.82 below lsd, July 5, 1961. Records available: 1961-63. Apr. 3, 26.34; Sept. 24, 27.72.

JEWELL COUNTY

12. (C) M. W. Howe. Lot 4, sec. 30, T 3 S, R 9 W. Dug, unused, water-table well in Niobrara Chalk; diameter 36 inches, depth 88 feet, cribbed with brick. Measuring point, top of wooden platform, 1.30 feet above lsd. Highest water level 39.14 below lsd, July 24, 1951; lowest 77.79 below lsd, June 8, 1938. Records available: 1934-55, 1957. No measurement made in 1963.

45. (C) Victor Yapp. NE SW sec. 24, T 4 S, R 10 W. Drilled, unused, water-table well in alluvium and colluvium; diameter 12 inches, depth 38 feet. Measuring point, top of wooden platform, 0.90 foot above lsd. Highest water level 14.31 below lsd, July 23, 1951; lowest 34.39 below lsd, Dec. 21, 1940. Records available: 1934-55. Measurement discontinued.

65. (C) Mrs. D. M. Parkhurst. SE SE sec. 23, T 3 S, R 9 W. Dug, water-table domestic and stock well in colluvium; diameter 5 feet, depth 42 feet, cribbed with stone. Measuring point, top of plank platform, 1.90 feet above lsd. Highest water level 8.12 below lsd, Nov. 25, 1961; lowest 38.10 below lsd, Aug. 20, 1940. Records available: 1939-55, 1957-58, 1961. No measurement made in 1963.

69. (C) Walter Dietz. NW lot 2, sec. 7, T 5 S, R 9 W. Drilled, unused, water-table well in alluvium; diameter 12 inches, depth 37 feet. Measuring point at land surface. Highest water level 5.85 below lsd, July 23, 1951; lowest 24.50 below lsd, Aug. 19, 1940. Records available: 1939-44, 1946-55, 1958. No measurement made in 1963.

1-6-5ac. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter $1\frac{1}{4}$ inches, depth 20 feet. Measuring point, top of pipe, 1.90 feet above lsd. Highest water level 10.30 below lsd, May 25, 1961; low-

est 17.15 below lsd, Mar. 13, 1957. Records available: 1953-63.

Jan. 8	12.80	July 22	12.10	Nov. 8	12.40
May 8	13.00	Sept. 11	12.50		

1-6-5cd. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter $1\frac{1}{4}$ inches, depth 43 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 21.30 below lsd, Aug. 31, 1960; lowest 33.16 below lsd, Mar. 3, 1955. Records available: 1953-63. Jan. 8, 24.10; May 8, 25.20. Measurement discontinued.

1-6-5dd2. (MB) U.S.B.R. Jetted, water-table observation well in alluvium; diameter $1\frac{1}{4}$ inches, depth 44 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 16.80 below lsd, Oct. 15, 1960; lowest 25.40 below lsd, Mar. 15, 1961. Records available: 1960-63.

Jan. 8	22.50	July 22	22.20	Nov. 18	21.40
May 8	22.80	Sept. 11	21.00		

1-6-6ad. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter $1\frac{1}{4}$ inches, depth 22 feet. Measuring point, top of pipe, 1.70 feet above lsd. Highest water level 9.70 below lsd, Sept. 11, 1963; lowest 15.40 below lsd, Mar. 13, 1957. Records available: 1953-63.

Jan. 8	11.60	July 22	11.20	Nov. 8	10.70
May 8	10.70	Sept. 11	9.70		

1-6-6bc. (MB) U.S.G.S. Jetted, water-table observation well in alluvium; diameter $\frac{3}{4}$ inch, depth 21 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 2.17 below lsd, Oct. 1, 1950; lowest 10.55 below lsd, Sept. 20, 1955. Records available: 1950-63.

Jan. 8	7.10	July 22	8.50	Nov. 8	7.20
May 8	7.20	Sept. 11	7.80		

1-6-6cb. (MB) U.S.B.R. Driven, water-table observation well in alluvium; diameter $1\frac{1}{4}$ inches, depth 21 feet. Measuring point, top of pipe, 2.10 feet above lsd. Highest water level 5.20 below lsd, Nov. 21, 1962; lowest 11.04 below lsd, May 24, 1956. Records available: 1953-63.

Jan. 8	6.60	July 22	7.10	Nov. 8	6.20
May 8	6.50	Sept. 11	7.00		

1-6-6cc. (MB) U.S.G.S. Jetted, water-table observation well in alluvium; diameter $\frac{3}{4}$ inch, depth 39 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 15.80 below lsd, Oct. 15, 1960; lowest 28.04 below lsd, June 30, 1950. Records available: 1950-63.

Jan. 8	18.60	July 22	15.90	Nov. 8	17.20
May 8	18.70	Sept. 11	17.30		

1-6-6dal. (MB) U.S.G.S. Jetted, water-table observation well in alluvium; diameter $\frac{3}{4}$ inch, depth 27 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 10.60 below lsd, July 22, 1963; lowest 19.58 below lsd, Sept. 26, 1956. Records available: 1950-63.

Jan. 8	13.60	July 22	10.60	Nov. 8	12.10
May 8	14.30	Sept. 11	11.20		

1-6-6da2. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter $1\frac{1}{4}$ inches, depth 33 feet. Measuring point, top of pipe, 2.70 feet above lsd. Highest water level 10.70 below lsd, Sept. 11, 1963; lowest 22.23 below lsd, June 9, 1955. Records available: 1953-63.

Jan. 8	13.60	July 22	11.50	Nov. 8	11.70
May 8	15.10	Sept. 11	10.70		

1-6-6db. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter $1\frac{1}{4}$ inches, depth 22 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 8.40 below lsd, Sept. 20, 1961, July 22, 1963; lowest 15.13 below lsd, Mar. 13, 1957. Records available: 1953-63.

Jan. 8	9.30	July 22	8.40	Nov. 8	8.90
May 8	10.20	Sept. 11	8.50		

1-6-6dd. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter $1\frac{1}{4}$ inches, depth 32 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 14.50 below lsd, May 25, 1961; lowest 27.56 below lsd, June 9, 1955. Records available: 1953-63.

Jan. 8	17.50	July 22	16.80	Nov. 8	15.90
May 8	20.00	Sept. 11	15.60		

1-6-14da. (MB) U.S.B.R. Drilled, water-table observation well in deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 80 feet. Measuring point, top of pipe, 2.40 feet above lsd. Highest water level 53.90 below lsd, Nov. 18, 1963; lowest 61.72 below lsd, Feb. 24, 1959. Records available: 1955-63.

Mar. 8	55.25	June 5	55.10	Sept. 6	54.40
Apr. 12	55.22	July 10	54.90	Nov. 18	53.90
May 7	55.14	Aug. 8	54.70		

1-6-23ad. (MB) U.S.B.R. Drilled, water-table observation well in deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 71 feet. Measuring point, top of pipe, 2.40 feet above lsd. Highest water level 39.20 below lsd, Aug. 8, 1963; lowest 56.50 below lsd, Mar. 28, 1956. Records available: 1955-63.

Mar. 8	43.58	June 5	43.90	Sept. 6	39.40
Apr. 12	43.84	July 10	39.60	Nov. 18	40.70
May 7	43.83	Aug. 8	39.20		

1-6-25bb. (MB) U.S.B.R. Drilled, water-table observation well in deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 65 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 32.60 below lsd, Aug. 8, 1963; lowest 51.00 below lsd, May 3, 1956. Records available: 1955-63.

Mar. 8	37.66	June 5	37.00	Sept. 6	33.30
Apr. 12	38.02	July 10	35.10	Nov. 18	35.00
May 7	38.10	Aug. 8	32.60		

1-6-25bc. (MB) U.S.B.R. Drilled, water-table observation well in deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 70 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 14.70 below lsd, Aug. 8, 1963; lowest 44.77 below lsd, Sept. 1, 1955. Records available: 1955-63.

Mar. 8	16.32	June 5	16.90	Sept. 6	13.90
Apr. 12	16.63	July 10	17.00	Nov. 18	15.10
May 7	16.66	Aug. 8	14.70		

1-6-25cc. (MB) U.S.B.R. Drilled, water-table observation well in deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 60 feet. Measuring point, top of pipe, 1.40 feet above lsd. Highest water level 8.90 below lsd, Aug. 8, 1963; lowest 42.47 below lsd, Sept. 1, 1955. Records available: 1955-63.

Mar. 8	12.10	June 5	12.30	Sept. 6	9.10
Apr. 12	12.45	July 10	10.60	Nov. 18	10.70
May 7	12.22	Aug. 8	8.90		

1-6-25dd. (MB) U.S.B.R. Drilled, water-table observation well in deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 75 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 5.23 below lsd, Nov. 7, 1962; lowest 34.33 below lsd, Sept. 1, 1955. Records available: 1955-56, 1958-63.

Mar. 8	7.23	June 5	7.30	Sept. 6	5.60
Apr. 12	6.86	July 10	7.40	Nov. 18	5.70
May 7	6.77	Aug. 8	6.20		

1-6-34ddd. (MB) U.S.B.R. Drilled well in deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 66 feet. Measuring point, top of pipe, 1.60 feet above lsd. Highest water level 10.50 below lsd, Aug. 7, 1963; lowest 40.20 below lsd, Dec. 20, 1955. Records available: 1955-57, 1959, 1962-63.

Mar. 7	17.57	June 4	17.70	Sept. 6	12.00
Apr. 5	17.78	July 10	11.10	Nov. 12	14.70
May 7	17.89	Aug. 7	10.50		

1-6-35ba. (MB) U.S.B.R. Drilled and jetted well in deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 62 feet. Measuring point, top of pipe, 2.20 feet above lsd. Highest water level 22.00 below lsd, Nov. 12, 1963; lowest 46.73 below lsd, Sept. 1, 1955. Records available: 1955-57, 1959-63.

JEWELL COUNTY—concluded

Mar. 7	22.18	June 4	23.50	Sept. 6	22.90
Apr. 5	22.32	July 10	22.90	Nov. 12	22.00
May 7	22.15	Aug. 7	23.30		

1-7-1bb. (MB) U.S.G.S. Driven well in alluvium; diameter 1¼ inches, depth 16 feet. Measuring point since Sept. 1962, top of pipe, 4.10 feet above lsd. Highest water level 3.39 below lsd, July 24, 1951; lowest 12.17 below lsd, May 24, 1956. Reported measurement of 10.50 on Nov. 21, 1962 should be corrected to 7.40 below lsd. Records available: 1947-63.

Jan. 8	8.40	July 22	9.50	Nov. 8	8.50
May 8	7.80	Sept. 11	9.00		

1-7-1db. (MB) U.S.B.R. Drilled well in alluvium; diameter 1¼ inches, depth 22 feet. Measuring point, top of pipe, 1.70 feet above lsd. Highest water level 5.40 below lsd, July 16, 1957; lowest 10.73 below lsd, Mar. 29, 1954. Records available: 1953-63.

Jan. 8	7.30	July 22	7.40	Nov. 8	7.00
May 8	7.00	Sept. 11	7.70		

1-7-1dc. (MB) U.S.B.R. Drilled well in alluvium; diameter 1¼ inches, depth 22 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 1.85 below lsd, May 1, 1959; lowest 12.02 below lsd, Sept. 25, 1953. Records available: 1953-63.

Jan. 8	5.50	July 22	5.00	Nov. 8	3.70
May 8	4.20	Sept. 11	4.90		

1-7-2da. (MB) U.S.G.S. Driven well in alluvium; diameter 1¼ inches, depth 13 feet. Measuring point since Sept. 1962, top of pipe, 3.70 feet above lsd. Highest water level 0.42 below lsd, July 24, 1951; lowest 8.00 below lsd, Dec. 21, 1948. Reported measurement of 5.60 on Nov. 21, 1962 should be corrected to 2.90 below lsd. Records available: 1947-63.

Jan. 8	4.40	July 22	4.30	Nov. 8	4.60
May 8	3.90	Sept. 11	4.50		

1-7-4ad. (MB) U.S.B.R. Driven well in alluvium; diameter 1¼ inches, depth 22 feet. Measuring point, top of pipe, 1.20 feet above lsd. Highest water level 1.80 below lsd, Feb. 15, 1956, Feb. 13, 1962; lowest 6.91 below lsd, Aug. 17, 1954. Records available: 1953-63. May 8, 2.50.

1-7-4ba. (MB) U.S.B.R. Driven well in alluvium; diameter 1¼ inches, depth 22 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 8.50 below lsd, Oct. 15, 1960; lowest 14.20 below lsd, Feb. 3, 1954. Records available: 1953-61. No measurement made in 1963.

2-6-2dd. (MB) U.S.B.R. Jetted well in deposits of Pleistocene age; diameter 1¼ inches, depth 66 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 12.30 below lsd, Aug. 7, 1963; lowest 40.09 below lsd, June 7, 1956. Records available: 1955-63.

Mar. 7	24.80	June 5	25.30	Sept. 6	19.20
Apr. 5	25.10	July 10	18.55	Nov. 12	22.30
May 7	25.11	Aug. 7	12.30		

2-6-3db. (MB) U.S.B.R. Drilled well in deposits of Pleistocene age; diameter 1¼ inches, depth 54 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 12.91 below lsd, July 10, 1963; lowest 38.45 below lsd, May 3, 1956. Records available: 1955-63.

Mar. 7	26.81	July 10	12.91	Sept. 6	20.20
Apr. 5	26.66	Aug. 7	15.60	Nov. 12	24.10
May 7	26.97				

2-6-4cd. (MB) U.S.B.R. Drilled well in deposits of Pleistocene age; diameter 1¼ inches, depth 28 feet. Measuring point, top of pipe, 2.00 feet above present land surface (1.3 feet below original land surface datum). Highest water level 9.00 below lsd, Sept. 6, 1963; lowest 21.68 below lsd, Sept. 1, 1955. Records available: 1955-59, 1961-63.

Mar. 6	10.48	June 4	10.00	Sept. 6	9.00
Apr. 5	10.45	July 2	9.80	Nov. 12	9.30
May 6	10.62	Aug. 7	9.50		

2-6-4dd. (MB) U.S.B.R. Drilled well in deposits of Pleistocene age; diameter 1¼ inches, depth 44 feet. Measuring point, top of pipe, 2.80 feet above lsd. Highest water level 17.20 below lsd, July 2, 1963; lowest 36.00 below lsd, Dec. 20, 1955. Records available: 1955-63.

Mar. 6	21.37	June 4	20.70	Sept. 6	18.00
Apr. 5	21.56	July 2	17.20	Nov. 12	19.00
May 6	21.58	Aug. 7	17.90		

2-6-8aa. (MB) U.S.B.R. Drilled well in deposits of Pleistocene age; diameter 1¼ inches, depth 27 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 13.36 below lsd, Nov. 2, 1962; lowest dry, Feb. 21, 1957. Records available: 1955-63.

Mar. 6	14.84	June 4	14.40	Sept. 6	14.00
Apr. 5	14.62	July 2	13.80	Nov. 12	14.20
May 6	14.72	Aug. 7	14.00		

2-6-9bd. (MB) U.S.B.R. Drilled well in deposits of Pleistocene age; diameter 1¼ inches, depth 37 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 24.10 below lsd, Aug. 7, 1963; lowest dry, Jan. 4, 1958. Records available: 1955-63.

1962					
Jan. 15	27.72	Aug. 14	26.15	June 4	24.65
Feb. 7	27.30	Sept. 5	26.20	July 2	24.90
Mar. 5	27.17	Oct. 9	25.82	Aug. 7	24.10
Apr. 4	26.72	Nov. 2	25.56	Sept. 6	24.90
May 1	26.60			Nov. 12	24.50
June 11	26.32	1963			
July 17	26.27	Apr. 5	24.87		
		May 6	24.75		

2-6-10cb. (MB) U.S.B.R. Drilled well in deposits of Pleistocene age; diameter 1¼ inches, depth 56 feet. Measuring point, top of pipe, 2.20 feet above lsd. Highest water level 19.46 below lsd, Aug. 7, 1963; lowest 37.76 below lsd, July 11, 1956. Records available: 1955-63.

Mar. 6	23.11	June 4	23.50	Sept. 6	20.23
Apr. 5	23.23	July 2	22.83	Nov. 12	21.30
May 6	23.52	Aug. 7	19.46		

2-6-11da2. (MB) U.S.B.R. Drilled well in deposits of Pleistocene age; diameter 1¼ inches, depth 31 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 14.76 below lsd, Oct. 9, 1962; lowest 20.80 below lsd, June 7, 1956. Records available: 1955-63.

Mar. 7	15.70	June 5	16.40	Sept. 6	16.10
Apr. 5	15.85	July 10	17.50	Nov. 12	16.30
May 7	15.84	Aug. 7	16.00		

JOHNSON COUNTY

11-23-33bac. (C) U.S.G.S. and K.G.S. Bored, water-table observation well in alluvium; diameter 1¼ inches, depth 37 feet. Measuring point, top of pipe, 3.6 feet above lsd. Highest water level 17.50 below lsd, Mar. 29, 1962; lowest 22.50 below lsd, Dec. 27, 1963. Records available: 1961-63. Feb. 5, 21.72; July 19, 21.98; Dec. 27, 22.50.

11-23-33bba. (C) U.S.G.S. and K.G.S. Bored, water-table observation well in alluvium; diameter 1¼ inches, depth 38 feet. Measuring point, top of pipe, 3.8 feet above lsd. Highest water level 17.93 below lsd, May 24, 1961; lowest 26.92 below lsd, Dec. 27, 1963. Records available: 1961-63. Feb. 5, 25.45; July 19, 24.99; Dec. 27, 26.92.

11-23-33bdd. (C) U.S.G.S. and K.G.S. Bored, water-table observation well in alluvium; diameter 1¼ inches, depth 39 feet. Measuring point, top of pipe, 3.6 feet above lsd. Highest water level 20.17 below lsd, Mar. 29, 1962; lowest 26.43 below lsd, Dec. 27, 1963. Records available: 1961-63. Feb. 5, 24.38; July 19, 25.27; Dec. 27, 26.43.

12-22-25bcc. (C) U.S.G.S. Bored, water-table observation well in alluvium; diameter 1¼ inches, depth 33 feet. Measuring point, top of pipe, 1.8 feet above lsd. Highest water level 14.93 below lsd, Mar. 29, 1962; lowest 20.99 below lsd, Dec. 27, 1963. Records available: 1961-63. Feb. 5, 19.32; July 19, 19.65; Dec. 27, 20.99.

KEARNY COUNTY

13a. (C) Kearny County. NW NE sec. 15, T 25 S, R 37 W. Driven and bored observation well in alluvium; diameter 1¼ inches, depth 10 feet. Measuring point, top west side of pipe, 2.20 feet above lsd. Highest water level 7.39 below lsd, May 28, 1954; lowest 9.66 below lsd, July 20, 1961. Records available: 1953-63. Jan. 3, 9.20. Measurement discontinued.

13b. (C) Carl Marquardt. NW NE sec. 15, T 25 S, R 37 W. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 29 feet. Measuring point, top of pipe, 5.00 feet above lsd. Highest water level 8.06 below lsd, June 14, 1962; lowest 9.80 below lsd, Oct. 9, 1963. Records available: 1960-63.

Jan. 3	9.27	May 29	9.00	Sept. 3	9.75
Feb. 21	8.99	June 6	9.10	Oct. 9	9.80
Mar. 21	8.85	July 25	9.40	Nov. 20	9.77
Apr. 11	8.74	Aug. 15	9.56	Dec. 19	9.77

16. (C) C. B. Campbell. SE cor. sec. 15, T 23 S, R 35 W. Drilled, unused, water-table well in Ogallala Formation and deposits of Pleistocene age; diameter 6 inches, depth 60 feet. Measuring point, top north side of casing, 0.40 foot above lsd. Highest water level 23.09 below lsd, May 31, 1951; lowest 58.91 below lsd, Dec. 3, 1963. Records available: 1939-63. Mar. 27, 51.86; June 3, 55.92; Sept. 3, 58.77; Dec. 3, 58.91. Measurement discontinued.

23-37-27ba. (C) George W. Sauer. Drilled, water-table stock well in Ogallala Formation and deposits of Pleistocene age; diameter 4 inches, depth 261 feet. Measuring point, west edge of casing, 1.20 feet above lsd. Highest water level 202.30 below lsd, Apr. 9, 1962; lowest 207.12 below lsd, Dec. 3, 1963. Records available: 1962-63. Mar. 27, P; June 3, P; Sept. 3, 206.30; Dec. 3, 207.12.

26-37-21dd. (C) H. G. Webber. Drilled, artesian irrigation well in deposits of Cretaceous and Pliocene age; diameter 16 inches, depth 330 feet. Measuring point, top hole in southwest side steel pump base, 0.50 foot above lsd. Highest water level 53.39 below lsd, Jan. 12, 1959; lowest 57.00 below lsd, Jan. 2, 1963. Records available: 1958-63. Jan. 2, 57.00.

26-38-24aa. (C) Albert Eveleigh. Drilled, domestic and stock well in Dakota Formation; diameter 6 inches, depth 200 feet. Measuring point, hole in casing cover, 0.50 foot above lsd. Highest water level 166.03 below lsd, May 11, 1959; lowest 171.03 below lsd, Jan. 2, 1963. Records available: 1959-63. Measurement discontinued.

May 11, 1959	166.03	Jan. 24, 1962	169.08
Jan. 5, 1960	166.77	Jan. 2, 1963	171.03
Jan. 11, 1961	167.23		

KINGMAN COUNTY

4. (C) N. Lawson. NW NW sec. 9, T 27 S, R 9 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 2 inches, depth 64 feet. Measuring point, top opening of pump, 3.00 feet above lsd. Highest water level 55.22 below lsd, Dec. 17, 1963; lowest 65.13 below lsd, Feb. 6, 1947. Records available: 1945-63.

Jan. 14	55.95	July 26	56.93	Dec. 17	55.22
Apr. 23	55.86	Oct. 21	55.68		

30-5-12cca. (C) Robert Lowery. Drilled, irrigation well in sand and gravel of Pleistocene age; diameter 16 inches, depth 62 feet. Measuring point, base of irrigation pump on north side, 1.44 feet above lsd. Highest water level 21.24 below lsd, Apr. 16, 1962; lowest 24.49 below lsd, July 18, 1960. Records available: 1955, 1959-63. Jan. 14, 21.67; Mar. 23, P; Dec. 17, 22.46.

KIOWA COUNTY

4. (C) H. E. Davis. SE NE sec. 4, T 28 S, R 16 W. Drilled, water-table domestic and irrigation well in sand and gravel of Pleistocene age; diameter 6 inches, depth 99 feet. Measuring point, top south side of casing, 0.50

KIOWA COUNTY—concluded

foot above lsd. Highest water level 63.87 below lsd, Sept. 4, 1952; lowest 76.07 below lsd, Aug. 20, 1943. Records available: 1940-63.

Jan. 17	67.36	July 30	67.57	Dec. 19	67.87
Apr. 25	67.57	Oct. 24	68.07		

8a. (C) Gilbert Yahn. SW SE SE sec. 18, T 27 S, R 18 W. Bored, water-table observation well in sand and gravel of Pleistocene age; diameter 1½ inches, depth 40 feet. Measuring point, top of pipe, 2.90 feet above lsd. Highest water level 14.24 below lsd, Dec. 19, 1963; lowest 15.77 below lsd, Apr. 19, 1962. Records available: 1961-63.

Jan. 17	15.06	July 30	15.01	Dec. 19	14.24
Apr. 25	15.49	Oct. 24	14.87		

19. (C) C. Williamson. SE NW sec. 21, T 27 S, R 17 W. Drilled, water-table irrigation well in sand and gravel of Pleistocene age; diameter 18 inches, depth 85 feet. Measuring point, lower edge of pump base, 0.50 foot above lsd. Highest water level 25.00 below lsd, Dec. 20, 1951; lowest 37.30 below lsd, June 19, 1944. Records available: 1941, 1944-63.

Jan. 17	30.74	July 30	30.52	Dec. 19	30.79
Apr. 25	30.23	Oct. 24	31.21		

LABETTE COUNTY

33-19-11aa. (C) Labette Co. Community High School. Drilled, unused, artesian well in Cotter Dolomite; diameter 4 inches, depth 1,300 feet. Measuring point, south side of pump base, 1.00 foot above lsd. Records available: 1963. Apr. 12, 231.50; Aug. 9, 231.50.

LANE COUNTY

17-30-13cbb. (C) F. L. Burmeister. Drilled, unused, water-table well in Ogallala Formation; diameter 6 inches, depth 94 feet. Measuring point, top of west side of casing, 0.10 foot above lsd. Highest water level 83.74 below lsd, Apr. 10, 1963; lowest 86.36 below lsd, Feb. 23, 1950. Records available: 1948, 1950-63. Jan. 7, 83.93; Apr. 10, 83.74; July 10, 83.95; Oct. 8, 83.84.

18-27-13ccc. (C) C. H. Merriweather. Drilled, unused, water-table well in Ogallala Formation; diameter 6 inches, depth 94 feet. Measuring point, top southeast side of casing, 0.60 foot above lsd. Highest water level 85.77 below lsd, Oct. 3, 1962; lowest 88.99 below lsd, Sept. 19, 1958. Records available: 1948: 1950-63. Jan. 7, 85.97; Apr. 10, 86.00; July 10, 86.04; Oct. 8, 85.80.

18-28-15ccc. (C) C. S. and F. E. Boone. Drilled, unused, water-table well in Ogallala Formation; diameter 6 inches, depth 76 feet. Measuring point, top southwest side of casing, 0.50 foot above lsd. Highest water level 53.76 below lsd, Jan. 7, 1963; lowest 56.49 below lsd, Dec. 18, 1957. Records available: 1948: 1950-63. Jan. 7, 53.76; Apr. 10, 54.01; July 10, 54.00; Oct. 8, 53.84.

19-30-3daa. (C) John Kees. Dug, unused, water-table well in Ogallala Formation; diameter 4 feet, depth 73 feet. Measuring point, top of concrete curb, 0.70 foot above lsd. Highest water level 63.60 below lsd, Mar. 6, 1959; lowest 69.70 below lsd, July 25, 1948. Records available: 1948, 1950-63. Jan. 7, 65.12. Measurement discontinued.

LEAVENWORTH COUNTY

8-22-7cb. (C) Mrs. Joe Kennedy. Dug, unused, water-table well in glacial deposits; diameter 5 feet, depth 15 feet, cribbed with rock. Measuring point, top west edge of hole in concrete plate, 1.00 foot above lsd. Highest water level 1.40 below lsd, Aug. 1, 1951; lowest 9.53 below lsd, Nov. 27, 1948. Records available: 1948-52, 1956-57, 1960-63. Mar. 25, 1.98; July 26, 2.53; Oct. 1, 6.63.

LINCOLN COUNTY

12-7-19dd. (MB) H. R. Behern. Dug, water-table stock and observation well in alluvium; diameter 36 inches, depth 16 feet, cribbed with rock. Measuring point, top of surface board platform, at land surface. Highest water level 7.29 below lsd, June 3, 1952; lowest dry, Mar. 13, 1957. Records available: 1947-61. Measurement discontinued.

12-8-8cd. (MB) S. C. Meredith. Dug, unused, water-table well in Dakota Formation; diameter 4 feet, depth (remeasured 1962) 29 feet, cribbed with rock. Measuring point since Mar. 1962, top of board platform, at land surface. Highest water level 1.58 below lsd, Apr. 3, 1959; lowest 15.12 below lsd, Apr. 16, 1954. Records available: 1947-59, 1961-63.

1961		1962		1963	
Mar. 16	7.60	Mar. 13	6.90	June 6	5.95
May 10	3.60	June 29	5.53	Sept. 17	9.10
June 26	4.01	Dec. 3	4.75	Dec. 10	9.40
Sept. 19	6.20				

12-8-11cb. (MB) Jim and Ed Healy. Dug, water-table domestic and stock well in terrace deposits of Pleistocene age; diameter 4 feet, depth 32 feet, cribbed with rock. Measuring point, top of concrete curb, at land surface. Highest water level 4.76 below lsd, July 25, 1951; lowest 21.15 below lsd, Sept. 7, 1963. Records available: 1947-63. June 6, 20.25; Sept. 17, 21.15; Dec. 10, 21.08.

12-10-21dd. (MB) F. D. Meyer. Dug, water-table domestic and stock well in terrace deposits of Pleistocene age; diameter 4 feet, depth 29 feet, cribbed with rock. Measuring point, top of concrete platform, 0.30 foot above lsd. Highest water level 19.58 below lsd, Oct. 22, 1951; lowest 27.88 below lsd, Dec. 20, 1956. Records available: 1947-61, 1963. June 6, 26.33; Sept. 17, 26.33; Dec. 10, 26.60.

LINN COUNTY

20-22-6aa. (C) C. F. Kerr. Dug, water-table domestic well in Upper Pennsylvanian Wyandotte Limestone. Measuring point, top of iron pipe, 0.80 foot above lsd. Highest water level 11.22 below lsd, Mar. 27, 1963; lowest 19.05 below lsd, Sept. 13, 1960. Records available: 1960-61, 1963.

1960		1961		1963	
July 29	13.58	June 19	12.89	Mar. 27	11.22
Sept. 13	19.05	28	13.13	Dec. 27	13.63
Oct. 14	18.98	Aug. 11	13.22		
17	19.04	18	13.20		

22-25-6cb. (C) E. C. Smith. Dug, unused, water-table well in Middle Pennsylvanian Nowata Shale and Altamont Limestone; diameter 5 feet, depth 16 feet, cribbed with rock. Measuring point, top south side of circular hole in concrete, 0.60 foot above lsd. Highest water level 1.99 below lsd, Feb. 21, 1952; lowest dry, Apr. 11, 1957. Records available: 1948-52, 1956-57, 1961. Measurement discontinued.

23-25-7daa. (C) O. M. Grigsby. Dug, unused, water-table well in Bandera Shale; diameter 36 inches, depth 19 feet, cribbed with rock. Measuring point, top north side of square hole in concrete, 0.60 foot above lsd. Highest water level 1.64 below lsd, Mar. 1, 1949; lowest 17.21 below lsd, May 5, 1948. Records available: 1948-52, 1956-57, 1960-61, 1963. Dec. 27, 11.47.

LOGAN COUNTY

1. (C) Octon Estate. SW SW sec. 2, T 11 S, R 32 W. Drilled, unused, water-table well in Ogallala Formation; diameter 5 inches, depth 104 feet. Measuring point, top north side of casing, 0.40 foot above lsd. Highest water level 96.25 below lsd, Apr. 21, 1953; lowest 99.75 below lsd, Dec. 19, 1963. Records available: 1942-63.

Jan. 14	97.08	July 8	96.85	Dec. 19	99.75
Apr. 9	97.00	Oct. 16	98.30		

11-34-16cd. (C) Arthur Peterson. Drilled, stock well in Ogallala Formation; depth 142 feet. Measuring point, hole in center of top of tank, 1.50 feet above lsd. Highest water level 118.40 below lsd, Oct. 9, 1962; lowest 120.98 below lsd, July 13, 1961. Records available: 1959-63.

Jan. 14	118.55	July 8	118.43	Dec. 19	118.48
Apr. 9	118.61	Oct. 16	118.42		

12-37-27aa. (C) J. E. Bertrand. Drilled, unused, observation well in deposits of Pleistocene age; diameter 5 inches, depth 53 feet. Measuring point, top of casing, 1.20 feet above lsd. Highest water level 40.00 below lsd, Apr. 11, 1960; lowest 44.60 below lsd, Aug. 10, 1954. Records available: 1952-62. Measurement discontinued.

13-32-27aa. (C) Owner unknown. Drilled, stock well in Niobrara Chalk; diameter 5 inches, depth 49 feet. Measuring point, top of hole in lid over casing, 1.30 feet above lsd. Highest water level 39.26 below lsd, Oct. 16, Dec. 19, 1963; lowest 41.14 below lsd, Jan. 9, 1957. Records available: 1956-63.

Jan. 14	39.33	July 8	39.30	Dec. 19	39.26
Apr. 9	39.35	Oct. 16	39.26		

McPHERSON COUNTY

17-3-4bb. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch,

depth 28 feet. Measuring point, top of pipe, 3.10 feet above lsd. Highest water level 17.05 below lsd, Sept. 22, 1952; lowest 25.00 below lsd, Aug. 19, 1957. Records available: 1950-53, 1955-63.

Mar. 18	19.85	June 4	20.80	Sept. 17	22.00
Apr. 29	20.50	July 23	21.43	Dec. 10	22.58

17-3-9bcc. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 30 feet. Measuring point, top of pipe, 3.80 feet above lsd. Highest water level 8.99 below lsd, Oct. 11, 1950; lowest 22.62 below lsd, Aug. 19, 1957. Records available: 1950-53, 1955-63.

Mar. 18	19.62	June 4	20.62	Sept. 17	21.85
Apr. 29	20.24	July 23	21.29	Dec. 10	21.96

17-3-17dd. (MB) U.S.G.S. Drilled, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 37 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 16.75 below lsd, July 24, 1951; lowest 29.80 below lsd, Sept. 7, 1956. Records available: 1946-63.

Mar. 18	25.96	June 4	26.52	Sept. 17	27.28
Apr. 29	26.11	July 23	27.18	Dec. 10	27.04

17-3-19ddd. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 30 feet. Measuring point, top of pipe, 4.50 feet above lsd. Highest water level 12.60 below lsd, Oct. 1, 1951; lowest 25.10 below lsd, July 23, 1963. Records available: 1951-63.

Mar. 18	24.13	June 5	25.05	Sept. 17	24.73
Apr. 29	24.53	July 23	25.10	Dec. 10	25.05

17-3-30dd. (MB) U.S.G.S. Drilled, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 55 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 19.09 below lsd, July 24, 1951; lowest 31.92 below lsd, Sept. 7, 1956. Records available: 1946-63.

Mar. 18	29.75	June 5	30.30	Sept. 17	30.44
Apr. 29	30.13	July 23	30.65	Dec. 10	30.73

17-4-20ddd. (MB) U.S.G.S. Jetted observation well in colluvium; diameter $\frac{3}{4}$ inch, depth 19 feet. Measuring point, top of pipe, 2.70 feet above lsd. Highest water level 0.38 below lsd, Mar. 27, 1960; lowest dry, May 11, 1956. Records available: 1950-63.

Mar. 18	7.32	June 5	9.63	Sept. 17	10.65
Apr. 29	8.17	July 23	10.00	Dec. 10	10.45

17-4-25dd. (MB) U.S.G.S. Drilled, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 39 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 15.11 below lsd, July 24, 1951; lowest 27.93 below lsd, Mar. 18, 1957. Records available: 1946-63.

McPHERSON COUNTY—concluded

Mar. 18	24.59	June 5	25.22	Sept. 17	25.82
Apr. 29	24.92	July 23	25.72	Dec. 10	26.00

17-4-29ccc. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 22 feet. Measuring point, top of pipe, 4.00 feet above lsd. Highest water level 6.52 below lsd, Aug. 20, 1951; lowest 21.20 below lsd, Dec. 10, 1963. Records available: 1950-53, 1955-63.

Mar. 18	19.32	June 5	20.15	Sept. 17	19.00
Apr. 29	19.83	July 23	20.04	Dec. 10	21.20

17-4-31baa. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 29 feet. Measuring point, top of pipe, 2.30 feet above lsd. Highest water level 13.06 below lsd, Aug. 20, 1951; lowest 24.68 below lsd, July 23, 1963. Records available: 1950-53, 1955-63.

Mar. 18	23.67	June 5	24.52	Sept. 17	23.30
Apr. 29	24.09	July 23	24.68	Dec. 10	24.40

17-4-32baa. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 30 feet. Measuring point, top of pipe, 1.90 feet above lsd. Highest water level 8.80 below lsd, Aug. 20, 1951; lowest 23.98 below lsd, May 8, 1957. Records available: 1950-53, 1955-63.

Mar. 18	21.88	June 5	22.42	Sept. 17	22.67
Apr. 29	22.13	July 23	22.75	Dec. 10	22.40

17-4-33bbb. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 24 feet. Measuring point, top of pipe, 1.60 feet above lsd. Highest water level 11.05 below lsd, Aug. 20, 1951; lowest dry, Apr. 7, Aug. 19, 1955, Jan. 4, Sept. 7, 1956. Records available: 1950-53, 1955-63.

Mar. 18	22.27	June 5	23.23	Sept. 17	23.32
Apr. 29	22.85	July 23	24.00	Dec. 10	23.55

17-4-36abb. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 30 feet. Measuring point, top of pipe, 2.70 feet above lsd. Highest water level 15.23 below lsd, Aug. 20, 1951; lowest 28.25 below lsd, July 23, 1963. Records available: 1951-53, 1955-63.

Mar. 18	25.03	June 5	25.40	Sept. 17	26.74
Apr. 29	25.02	July 23	28.25	Dec. 10	26.52

17-5-4ddd. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 17 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 12.92 below lsd, Apr. 1, 1958; lowest dry, July 23, 1953, Apr. 7, 1955; May 11, July 31, Sept. 7, 1956. Records available: 1951-53, 1955-63.

Mar. 18	16.43	June 5	16.49	Sept. 17	16.50
Apr. 29	16.63	July 23	16.50	Dec. 10	16.52

17-5-7aad. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 21 feet. Measuring point, top of pipe, 2.60 feet above lsd. Highest water level 6.01 below lsd, Oct. 1, 1951; lowest 16.28 below lsd, July 23, 1963. Records available: 1951-53, 1955-63.

Mar. 18	15.58	June 5	16.17	Sept. 17	15.52
Apr. 29	15.79	July 23	16.28	Dec. 10	16.08

17-5-7bbb. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 32 feet. Measuring point, top of pipe, 3.10 feet above lsd. Highest water level 17.88 below lsd, July 2, 1951; lowest 26.77 below lsd, Feb. 13, 1958. Records available: 1950-53, 1955-63.

Mar. 18	25.87	June 5	26.16	Sept. 17	26.38
Apr. 29	26.03	July 23	26.26	Dec. 10	26.37

17-5-8ccc. (MB) U.S.G.S. Jetted observation well in alluvium; diameter $\frac{3}{4}$ inch, depth 19 feet. Measuring point, top of pipe, 1.60 feet above lsd. Highest water level 3.33 below lsd, Nov. 9, 1951; lowest 12.52 below lsd, Dec. 18, 1956. Records available: 1950-53, 1955-63.

Mar. 18	8.86	June 5	9.47	Sept. 17	10.10
Apr. 29	9.20	July 23	9.66	Dec. 10	10.22

17-5-8ddd. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 23 feet. Measuring point, top of pipe, 1.45 feet above lsd. Highest water level 0.90 below lsd, Oct. 1, 1951; lowest 12.14 below lsd, Sept. 7, 1956. Records available: 1950-53, 1955-63.

Mar. 18	10.50	June 5	11.13	Sept. 17	11.10
Apr. 29	10.70	July 23	11.50	Dec. 10	12.12

17-5-11bbb. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 19 feet. Measuring point, top of pipe, 2.20 feet above lsd. Highest water level 1.87 below lsd, Oct. 1, 1951; lowest 16.30 below lsd, Dec. 18, 1956. Records available: 1950-53, 1955-63.

Mar. 18	8.36	June 5	9.82	Sept. 17	10.92
Apr. 29	7.95	July 23	10.60	Dec. 10	10.77

17-5-16aaa. (MB) U.S.G.S. Jetted observation well in alluvium; diameter $\frac{3}{4}$ inch, depth 24 feet. Measuring point, top of pipe, 2.30 feet above lsd. Highest water level 10.39 below lsd, Oct. 1, 1951; lowest 20.37 below lsd, July 23, 1963. Records available: 1951-53, 1955-63.

Mar. 18	19.48	June 5	20.25	Sept. 17	18.79
Apr. 29	19.88	July 23	20.37	Dec. 10	19.95

17-5-21dad. (MB) U.S.G.S. Jetted observation well in alluvium; diameter $\frac{3}{4}$ inch, depth 20 feet. Measuring point, top of pipe, 2.10 feet above lsd. Highest water level 6.51 below lsd, Oct. 1, 1951; lowest 19.97 below lsd, Mar. 19, 1957. Records available: 1950-53, 1955-63.

Mar. 18	16.85	June 5	17.55	Sept. 17	17.13
Apr. 29	17.12	July 23	17.75	Dec. 10	17.43

17-5-25aaa. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter 3/4 inch, depth 30 feet. Measuring point, top of pipe, 4.00 feet above lsd. Highest water level 7.51 below lsd, Oct. 1, 1951; lowest 20.90 below lsd, Oct. 23, 1950. Records available: 1950-53, 1955-63.

Mar. 18	14.50	June 5	15.32	Sept. 17	15.85
Apr. 29	15.00	July 23	15.59	Dec. 10	16.12

17-5-26ddd. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter 3/4 inch, depth 30 feet. Measuring point, top of pipe, 4.00 feet above lsd. Highest water level 5.00 below lsd, Aug. 20, 1951; lowest 21.73 below lsd, Dec. 17, 1956. Records available: 1950-63.

Mar. 18	18.19	June 5	20.03	Sept. 17	20.33
Apr. 29	19.65	July 23	20.35	Dec. 10	20.40

MEADE COUNTY

45. (C) Joseph Rocke. SE NE sec. 31, T 30 S, R 27 W. Drilled, unused, water-table well in Ogallala Formation and deposits of early Pleistocene age; diameter 3 inches, depth 32 feet. Measuring point, top of casing, 1.80 feet above lsd. Highest water level 0.42 below lsd, Dec. 20, 1949; lowest 22.84 below lsd, Sept. 13, 1956. Records available: 1939-62. Measurement discontinued.

77. (C) J. W. Wood. SE NE sec. 4, T 32 S, R 28 W. Drilled, unused, water-table well in Ogallala Formation and deposits of early Pleistocene age; diameter 3 inches, depth 199 feet. Measuring point, bottom of T in 3-inch casing, 2.60 feet above lsd. Highest water level 60.18 below lsd, Mar. 19, 1952; lowest 67.12 below lsd, Sept. 9, 1943. Records available: 1939-63. Mar. 13, P; June 10, 62.83; Sept. 9, 64.86; Dec. 10, P.

161. (C) C. R. Cheney. SW SW sec. 14, T 31 S, R 27 W. Bored, water-table stock well in deposits of late Pleistocene age and alluvium; diameter 6 inches, depth 14 feet. Measuring point, top south side of casing, 0.80 foot above lsd. Highest water level 6.23 below lsd, Sept. 9, 1953; lowest 12.30 below lsd, Sept. 20, 1939. Records available: 1939, 1952-62. Measurement discontinued.

234. (C) Chris Sobba. NW NE sec. 23, T 30 S, R 27 W. Drilled, unused, water-table well in Ogallala Formation; diameter 16 inches, depth 210 feet. Measuring point, top of casing, at land surface. An irrigation well nearby is affecting this well. Highest water level is 11.47 below lsd, July 8, 11, 1956; lowest 64.10 below lsd, Aug. 18, 1963. Records available: 1939-63.

Jan. 6	16.35	May 1	29.50	Sept. 15	30.30
13	16.40	6	31.60	22	24.00
20	15.70	12	34.80	28	20.60
27	15.60	June 2	26.50	Oct. 6	20.00
Feb. 3	15.01	10	23.40	13	22.60
10	16.01	18	20.20	20	21.00
16	15.08	23	20.75	27	21.50
23	17.30	July 9	26.50	Nov. 3	20.30
Mar. 3	19.90	14	28.00	10	18.90
11	19.85	20	36.00	17	18.60
17	19.70	27	35.60	24	18.50
26	22.60	Aug. 6	49.96	Dec. 1	21.40
31	23.80	12	49.00	7	19.20
Apr. 7	31.85	18	64.10	15	18.94
14	27.70	24	49.35	23	17.60
22	29.50	Sept. 3	44.90	29	18.00

30-27-22cd. (C) D. Zortman. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 8 inches, depth 20 feet. Measuring point, top of casing, 3.00 feet above lsd. Highest water level 11.73 below lsd, Apr. 22, 23, 1954; lowest 17.68 below lsd, Sept. 21, 1960. Records available: 1954-63. Mar. 13, 13.08; June 10, 14.61; Sept. 9, 15.41; Dec. 10, 14.71.

30-27-32ddd. (C) Meade County. Driven and bored, water-table observation well in sand and gravel of Pleistocene age; diameter 2 inches, depth 18 feet. Measuring point, top east side of pipe, 2.00 feet above lsd. Highest water level 8.93 below lsd, July 7, 1953; lowest dry, Mar. 19, 1957. Records available: 1953-63. Mar. 18, 11.27; June 10, 11.21; Sept. 9, 10.92; Dec. 10, 11.30.

30-29-28bb. (C) Edward Pippert. Drilled, artesian irrigation well in Ogallala Formation; diameter 16 inches, depth 400 feet. Measuring point, lower edge of sloping pipe, north side, 0.65 foot above lsd. Highest water level 132.44 below lsd, Jan. 8, 1960; lowest 133.78 below lsd, Jan. 15, 1962. Records available: 1959-63. Jan. 9, 133.14.

30-30-27bb. (C) Edith Collingwood. Drilled, water-table stock well in Ogallala Formation; diameter 4 inches, depth 160 feet. Measuring point, edge of steel casing, north side, 1.50 feet above lsd. Highest water level 130.65 below lsd, Dec. 10, 1963; lowest 132.46 below lsd, Sept. 9, 1963. Records available: 1962-63. Mar. 13, 132.04; June 10, 132.13; Sept. 9, 132.46; Dec. 10, 130.65.

32-29-5cc. (C) Carl Odgers. Drilled, artesian irrigation well in sand and gravel of Pliocene and Pleistocene age; diameter 16 inches, depth 360 feet. Measuring point, lower edge of sloping pipe, 0.70 foot above lsd. Highest water level 134.60 below lsd, Jan. 9, 1963; lowest 135.33 below lsd, Jan. 4, 1961. Records available: 1959, 1961-63.

July 13, 1959	135.13	Jan. 15, 1962	135.18
Jan. 4, 1961	135.33	Jan. 9, 1963	134.60

33-28-29bc. (C) Fred Borchers. Drilled, water-table irrigation well in Ogallala Formation and deposits of early Pleistocene age; diameter 16 inches, depth 160 feet. Measuring point, top northeast side of casing, 1.00 foot above lsd. Highest water level 13.10 below lsd, June 10, 1941, May 12, 1942; lowest 18.91 below lsd, Aug. 3, 1939. Records available: 1939-44, 1953-63. Mar. 13, P; June 10, 14.40; Sept. 9, 15.57; Dec. 10, 16.01.

33-30-35cb. (C) Columbian Fuel Corp. Drilled, artesian industrial well in sand and gravel of Pliocene and Pleistocene age; diameter 10 inches, depth 420 feet. Measuring point, lower lip of 4-inch coupling on west side, 0.70 foot above lsd. Highest water level 157.74 below lsd, Jan. 9, 1963; lowest 161.55 below lsd, Jan. 15, 1962. Records available: 1959, 1961-63.

July 13, 1959	158.27	June 10, 1963	158.06
Jan. 4, 1961	158.41	Sept. 9	P
Jan. 15, 1962	161.55	Dec. 10	157.82
Jan. 9, 1963	157.74		

MITCHELL COUNTY

6-8-34ccc. (MB) R. L. Metcalf. Dug, water-table domestic and stock well in terrace deposits of Pleistocene age; diameter 48 inches, depth 32 feet, cribbed with stone. Measuring point, top surface board platform, 0.40 foot above lsd. Highest water level 14.70 below lsd, June

MITCHELL COUNTY—concluded

30, 1962; lowest 18.59 below lsd, Feb. 7, 1950. Records available: 1946-63. June 6, 15.62; Sept. 18, 15.66; Dec. 9, 15.20.

6-9-27ab. (MB) L. Lowdermilk. Dug, unused, water-table well in terrace deposits of Pleistocene age; diameter 4 feet, depth 37 feet, cribbed with rock. Measuring point, top of rock base, 0.40 foot above lsd. Highest water level 11.90 below lsd, July 25, 1951; lowest 31.10 below lsd, May 11, 1935. Records available: 1934-63.

Jan. 17	20.99	June 6	21.72	Oct. 10	21.81
Mar. 19	21.38	July 12	22.00	Dec. 9	22.15
Apr. 8	21.33	Sept. 18	22.60	20	22.25

6-9-30da. (MB) J. Reinhardt. Drilled, domestic and stock well in terrace deposits of Pleistocene age; diameter 6 inches, depth 37 feet. Measuring point, top north edge of casing, 0.30 foot above lsd. Highest water level 17.90 below lsd, July 25, 1951; lowest 32.50 below lsd, Mar. 12, 1957. Records available: 1946-63. Mar. 19, 26.65; June 6, 27.00. Measurement discontinued.

6-9-36ddd. (MB) U.S.B.R. Bored, water-table observation well in terrace deposits of Pleistocene age; depth 43 feet. Measuring point, top of casing, 0.70 foot above lsd. Highest water level 19.05 below lsd, June 30, 1962; lowest 26.86 below lsd, May 10, 1961. Records available: 1960-63. Mar. 19, 21.38; June 6, 22.44; Sept. 18, 24.16; Dec. 9, 24.14.

7-7-8ba. (MB) U.S.B.R. Bored, water-table observation well in sandy silt of Pleistocene age; diameter 1 1/4 inches, depth 49 feet. Measuring point, top of casing, 1.50 feet above lsd. Highest water level 41.61 below lsd, Mar. 19, 1963; lowest 44.10 below lsd, Mar. 15, 1961. Records available: 1960-63. Mar. 19, 41.61; June 6, 42.64; Sept. 18, 42.90; Dec. 9, 43.00.

7-7-18dda. (MB) U.S.B.R. Bored, water-table observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 31 feet. Measuring point, top of casing, 1.40 feet above lsd. Highest water level 19.95 below lsd, Sept. 18, 1961; lowest 25.16 below lsd, Dec. 9, 1963. Records available: 1960-63. Mar. 19, 23.62; June 6, 24.23; Sept. 18, 25.14; Dec. 9, 25.16.

MORTON COUNTY

22. (C) E. A. Wilcox. SW SE SE sec. 14, T 31 S, R 43 W. Drilled, unused, water-table well in Dakota Formation; diameter 5 inches, depth 94 feet. Measuring point, top south side of casing, 1.20 feet above lsd. Highest water level 66.88 below lsd, Oct. 7, 1963; lowest 78.29 below lsd, Aug. 14, 1958. Records available: 1939-53, 1956-63. Jan. 8, 68.87; Apr. 17, 68.39; July 17, 69.23; Oct. 7, 66.88.

117. (C) W. C. Washburn. SW SW sec. 4, T 35 S, R 42 W. Drilled, unused, water-table well in Ogallala Formation; diameter 6 inches, depth 216 feet. Measuring point, top west side of casing, 1.20 feet above lsd. Highest water level 152.39 below lsd, Feb. 11, 1959; lowest 166.54 below lsd, May 25, 1948. Records available: 1939-63. Jan. 8, 156.09; Apr. 17, P; July 17, P; Oct. 7, 153.42.

31-40-21dc. (C) Perry A. Williams. Drilled, irrigation well in Ogallala Formation; diameter 16 inches, depth 275 feet. Measuring point, hole in north side of pump base, 1.07 feet above lsd. Highest water level 155.88 below lsd, Feb. 18, 1960; lowest 162.80 below lsd, Nov. 6, 1959. Records available: 1959-63.

Jan. 8	158.75	Apr. 17	P	Oct. 7	P
22	160.11	July 17	P		

32-42-21bc. (C) Leon and Herbert Jackson. Drilled, water-table irrigation well in Ogallala Formation; diameter 16 inches, depth 189 feet. Measuring point, hole in southwest side of pump base, 0.50 foot above lsd. Highest water level 83.62 below lsd, Feb. 18, 1960; lowest 95.57 below lsd, Jan. 8, 1963. Records available: 1959-63. Jan. 8, 95.57; Apr. 17, P; July 17, P; Oct. 7, P.

NEMAHA COUNTY

5-13-9dcl. (C) U.S.G.S. & K.G.S. Bored, water-table observation well in terrace deposits of Wisconsinan age; diameter 1 1/4 inches, depth 29 feet. Measuring point, top of pipe, 3.50 feet above lsd. Highest water level 9.32 below lsd, July 2, 1963; lowest 14.69 below lsd, Nov. 7, 1963. Records available: 1963.

July 2	9.32	Sept. 24	13.93	Dec. 5	11.92
24	11.46	Nov. 7	14.69		

5-13-28bbb. (C) U.S.G.S. & K.G.S. Bored, water-table observation well in terrace deposits of Wisconsinan age; diameter 1 1/4 inches, depth 23 feet. Measuring point, top of pipe, 5.70 feet above lsd. Highest water level 5.23 below lsd, July 24, 1963; lowest 6.80 below lsd, Sept. 24, 1963. Records available: 1963.

July 2	5.38	Sept. 24	6.80	Dec. 5	6.38
24	5.23	Nov. 7	6.75		

5-13-33ddc2. (C) U.S.G.S. & K.G.S. Bored, water-table observation well in terrace deposits of Wisconsinan age; diameter 1 1/4 inches, depth 21 feet. Measuring point, top of pipe, 4.00 feet above lsd. Highest water level 6.87 below lsd, Sept. 24, 1963; lowest water level 10.72 below lsd, July 24, 1963. Records available: 1963. July 24, 10.72; Sept. 24, 6.87; Nov. 7, 7.44; Dec. 5, 7.51.

NESS COUNTY

1. (C) J. E. Ficken. SW SE sec. 32, T 20 S, R 23 W. (Erroneously reported previously as NE SW sec. 32.) Drilled, water-table irrigation well in terrace deposits of Pleistocene age; diameter 19 inches, depth 67 feet. Measuring point, top east side of sill under pump, 2.00 feet above lsd. Highest water level 25.58 below lsd, Oct. 24, 1951; lowest 34.91 below lsd, Aug. 27, 1940. Records available: 1940-63.

Jan. 15	31.86	July 25	34.79	Dec. 16	33.28
Apr. 22	32.19	Oct. 22	33.40		

2. (C) C. L. Whitley. SW cor. sec. 20, T 20 S, R 22 W. Dug and drilled, water-table irrigation well in terrace deposits of Pleistocene age; diameter 20 inches, depth 51 feet. Measuring point, top south side of concrete curb, 0.50 foot above lsd. Highest water level 17.81 below lsd, July 12, 1951; lowest 33.69 below lsd, July 26, 1956. Records available: 1940-63. Jan. 15, 22.96; July 25, 24.97; Oct. 22, 25.18; Dec. 16, 25.09.

18-23-31ab. (C) J. H. Lieker. Drilled, water-table domestic well in terrace deposits of Pleistocene age; diameter 5 inches, depth 54 feet. Measuring point, top

west side of casing, 0.30 foot above lsd. Highest water level 45.87 below lsd, July 17, 1962; lowest 49.10 below lsd, Oct. 23, 1956. Records available: 1954-63.

Jan. 15	46.55	July 25	46.17	Dec. 16	46.76
Apr. 22	46.78	Oct. 22	46.40		

NORTON COUNTY

2-21-1bb. (MB) Verner Ross. Drilled, water-table irrigation well in terrace deposits of Pleistocene age; diameter 24 inches, depth 70 feet. Measuring point, top east side of pump base, 1.30 feet above lsd. Highest water level 18.76 below lsd, July 23, 1951; lowest 44.70 below lsd, Aug. 23, 1960. Records available: 1946-63.

1962		1962		1963	
Jan. 15	26.10	Sept. 19	28.50	May 1	23.30
Mar. 15	25.80	Nov. 27	26.20	July 2	37.70
May 21	25.80	1963		Sept. 9	29.90
July 11	24.30	Feb. 18	25.20	Nov. 6	27.70

2-21-2bd. (MB) Vernon J. Hamilton. Drilled, water-table irrigation well in terrace deposits of Pleistocene age; diameter 24 inches, depth 57 feet. Measuring point, top south side of casing, at land surface. Highest water level 17.69 below lsd, Aug. 26, 1951; lowest 29.90 below lsd, June 13, 1957. Records available: 1946-62. Measurement discontinued.

2-21-11aa. (MB) W. B. Woods. Drilled, water-table irrigation well in terrace deposits of Pleistocene age; diameter 18 inches, depth 82 feet. Measuring point, hole in pump base, 1.00 foot above lsd. Highest water level 24.37 below lsd, Oct. 23, 1951; lowest 42.10 below lsd, Feb. 15, 1957. Records available: 1945-63.

Feb. 18	26.00	July 2	P	Nov. 6	32.70
May 1	30.80	Sept. 9	35.40		

2-25-36dd. (C) L. B. McCabe. Drilled, water-table stock well in Ogallala Formation; diameter 6 inches, depth 56 feet. Measuring point, top edge of casing, 1.00 foot above lsd. Highest water level 41.08 below lsd, Oct. 10, 1962; lowest 42.83 below lsd, May 4, 1946. Records available: 1946, 1954-63.

Jan. 16	42.28	July 11	41.40	Dec. 17	41.47
Apr. 11	41.31	Oct. 14	41.50		

4-23-11dd. (C) Frank Harting. Drilled, water-table stock and domestic well in Ogallala Formation; diameter 4 inches, depth 71 feet. Measuring point since July 1963, hole in pump base, 0.45 foot above lsd. Highest water level 46.53 below lsd, Jan. 19, 1961; lowest 47.64 below lsd, Jan. 15, 1962. Records available: 1960-63.

Jan. 16	P	July 11	47.58	Dec. 17	P
Apr. 11	47.48	Oct. 14	P		

OSBORNE COUNTY

6-11-34aa. (MB) Wm. E. Lowdon. Dug, unused, water-table well in terrace deposits of Pleistocene age; diameter 28 inches, depth 38 feet, cribbed with rock.

Measuring point, top of platform over well, 0.10 foot above lsd. Highest water level 27.30 below lsd, Mar. 1, 1952; lowest 37.07 below lsd, June 11, 1946. Records available: 1945-63. Jan. 17, 30.24; Apr. 8, 31.13; Oct. 10, 32.31; Dec. 20, 32.65.

6-12-7bb. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 40 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 18.80 below lsd, Oct. 16, 1963; lowest 33.19 below lsd, Dec. 10, 1951. Records available: 1951-63.

Jan. 17	21.80	June 20	21.67	Oct. 10	18.83
Feb. 14	21.72	July 12	19.35	16	18.80
Apr. 8	21.89	Aug. 15	27.75	Dec. 20	19.60

6-12-7dc. (MB) U.S.G.S. Jetted observation well in sand and gravel of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 36 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 11.55 below lsd, June 19, 1951; lowest 25.57 below lsd, May 7, 1958. Records available: 1951-63.

Jan. 17	24.55	June 20	24.20	Oct. 10	24.25
Feb. 14	24.30	July 12	24.30	16	24.10
Apr. 18	24.38	Aug. 15	24.12	Dec. 20	23.51

6-12-23cd. (MB) C. Fink. Dug, water-table domestic well in terrace deposits of Pleistocene age; diameter 36 inches, depth 30 feet, cribbed with rock. Measuring point, top south side of board platform, 0.75 foot above lsd. Highest water level 16.68 below lsd, July 24, 1951; lowest 27.17 below lsd, Apr. 26, 1946. Records available: 1945-63.

Jan. 17	18.85	July 12	19.91	Dec. 20	20.12
Apr. 8	19.35	Oct. 10	19.75		

7-12-15daa. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter $1\frac{1}{4}$ inches, depth 50 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 36.70 below lsd, Oct. 18, 1963; lowest 44.18 below lsd, Feb. 18, 1958. Records available: 1956-63.

Feb. 13	37.90	July 16	38.00	Oct. 18	36.70
Apr. 12	37.80	Aug. 4	37.00		

7-12-15ddd. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter $1\frac{1}{4}$ inches, depth 44 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 30.10 below lsd, Oct. 20, 1961; lowest 35.54 below lsd, Jan. 14, 1957. Records available: 1956-61. No measurement made in 1963.

7-12-23cb. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter $1\frac{1}{4}$ inches, depth 41 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 19.40 below lsd, Oct. 18, 1963; lowest 31.30 below lsd, May 17, 1956. Records available: 1956-63.

Feb. 11	24.20	June 16	25.80	Oct. 18	19.40
Apr. 12	24.80	Aug. 4	24.00		

7-12-28ab. (MB) C. E. Galley. Drilled, water-table domestic and stock well in terrace deposits of Peistocene

OSBORNE COUNTY—concluded

age; diameter 12 inches, depth 47 feet, tile casing. Measuring point, top surface concrete platform, 0.50 foot above lsd. Highest water level 26.44 below lsd, May 25, 1952; lowest 34.63 below lsd, Mar. 12, 1957. Records available: 1946-63. Jan. 17, 28.99; Apr. 8, 29.50; Oct. 10, 30.49; Dec. 20, 30.74.

7-13-7aa. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 63 feet. Measuring point, top of pipe, 1.20 feet above lsd. Highest water level 43.00 below lsd, Oct. 18, 1963; lowest 53.29 below lsd, May 27, 1957. Records available: 1956-63.

Feb. 11	43.50	June 19	44.30	Oct. 18	43.00
Apr. 10	43.80	Aug. 8	43.60		

7-13-7da. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 44 feet. Measuring point, top of pipe, 2.80 feet above lsd. Highest water level 24.50 below lsd, Oct. 10, 1963; lowest 33.63 below lsd, May 27, 1957. Records available: 1956-63.

Feb. 11	25.80	June 19	25.70	Oct. 10	24.50
Apr. 10	25.70	Aug. 8	25.40		

7-13-10cba. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 44 feet. Measuring point, top of pipe, 0.70 foot above lsd. Highest water level 26.60 below lsd, Oct. 18, 1963; lowest 40.55 below lsd, Aug. 15, 1956. Records available: 1956-63.

Feb. 12	27.50	June 19	29.20	Oct. 18	26.60
Apr. 10	28.10	Aug. 8	27.90		

7-13-13bcc. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 53 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 37.10 below lsd, Oct. 18, 1963; lowest 44.31 below lsd, May 27, 1957. Records available: 1956-63.

Feb. 12	37.80	June 19	37.90	Oct. 18	37.10
Apr. 10	37.80	Aug. 8	38.00		

7-13-14dd. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 27 feet. Measuring point, top of pipe, 1.70 feet above lsd. Highest water level 5.67 below lsd, June 21, 1957; lowest 13.42 below lsd, Jan. 14, 1957. Records available: 1956-63.

Feb. 12	10.80	June 19	11.50	Oct. 18	10.70
Apr. 10	10.60	Aug. 8	10.90		

7-13-15bbb. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 41 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 10.50 below lsd, Oct. 18, 1963; lowest 20.86 below lsd, Apr. 18, 1957. Records available: 1956-63.

Feb. 12	12.00	June 19	12.90	Oct. 18	10.50
Apr. 10	12.30	Aug. 8	11.90		

7-13-15da. (MB) J. W. Bathurst. Drilled, water-table domestic well in terrace deposits of Pleistocene age; diameter 12 inches, depth 53 feet, tile casing. Measuring point since July 1963, top surface of board platform, 1.20 feet above lsd. Highest water level 29.14 below lsd, July 25, 1951; lowest 41.47 below lsd, Mar. 12, 1957. Records available: 1946-63.

Jan. 17	35.53	July 12	36.20	Dec. 20	35.75
Apr. 8	35.50	Oct. 10	35.71		

7-13-16add. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 65 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 34.20 below lsd, Oct. 18, 1963; lowest 41.86 below lsd, Sept. 12, 1956. Records available: 1956-63. June 10, 40.00; Aug. 8, 35.50; Oct. 18, 34.20.

7-13-17bbc. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 14 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 5.20 below lsd, Oct. 10, 1963; lowest 9.72 below lsd, Apr. 18, 1957. Records available: 1956-63.

Feb. 11	5.70	June 19	6.40	Oct. 10	5.20
Apr. 10	5.30	Aug. 8	6.30		

7-13-17cbb. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 69 feet. Measuring point, top of pipe, 4.00 feet above lsd. Highest water level 24.00 below lsd, Jan. 17, 1957; lowest 35.31 below lsd, Apr. 18, 1957. Records available: 1957-63.

Feb. 11	32.70	June 19	33.40	Oct. 10	33.30
Apr. 10	32.80	Aug. 8	33.90		

7-14-4aa2. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 40 feet. Measuring point, top of pipe, 4.50 feet above lsd. Highest water level 16.80 below lsd, Oct. 10, 1963; lowest 22.80 below lsd, June 11, 1962. Records available: 1962-63.

Feb. 11	20.20	June 19	21.70	Oct. 10	16.80
Apr. 10	20.80	Aug. 8	18.70		

7-14-4ad2. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 36 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 13.30 below lsd, Oct. 10, 1963; lowest 17.15 below lsd, May 8, 1962. Records available: 1962-63.

Feb. 11	15.70	June 19	16.80	Oct. 10	13.30
Apr. 10	16.00	Aug. 8	14.90		

7-14-4dd. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 27

feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 14.00 below lsd, Oct. 4, 1962; lowest 22.37 below lsd, Apr. 18, 1957. Records available: 1956-63. Apr. 10, 14.50; June 19, 14.90; Aug. 8, 17.40; Oct. 10, 15.90.

7-14-6cbb. (MB) J. A. Guttery. Drilled stock well in terrace deposits of Pleistocene age; diameter 12 inches, depth 29 feet, tile casing. Measuring point, top east side of surface board platform, 0.40 foot above lsd. Highest water level 16.97 below lsd, July 12, 1963; lowest 24.89 below lsd, Dec. 19, 1956. Records available: 1946-58, 1960-63.

1960						
July 12	22.91	July 10	23.31	Oct. 16		P
Oct. 10	P	Oct. 11	18.80	1963		
1961						
Jan. 18	21.80	Apr. 16	18.45	Jan. 17	17.10	
Apr. 10	21.75	July 19	17.52	Apr. 8	17.50	
				July 12	16.97	
				Oct. 10	P	

7-14-10bb. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1 1/4 inches, depth 16 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 4.60 below lsd, June 11, 1962; lowest 10.74 below lsd, Apr. 18, 1957. Records available: 1956-62. No measurement made in 1963.

7-15-8ba. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1 1/4 inches. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 23.80 below lsd, Oct. 10, 1963; lowest 35.87 below lsd, Apr. 18, 1957. Records available: 1956-63.

Feb. 8	27.70	June 19	29.10	Oct. 10	23.80
Apr. 10	28.30	Aug. 8	25.20		

7-15-8cc. (MB) F. Dibble. Dug, water-table domestic and stock well in terrace deposits of Pleistocene age; diameter 4 feet, depth 25 feet, cribbed with stone. Measuring point, top surface of cement platform, 1.10 feet above lsd. Highest water level 16.35 below lsd, Oct. 10, 1963; lowest 25.78 below lsd, Mar. 8, 1950. Records available: 1946-63. Jan. 17, P; Apr. 8, 18.75; July 12, 18.49; Oct. 10, 16.35.

7-15-12dc. (MB) Tom Hale, Jr. Drilled, water-table domestic and stock well in terrace deposits of Pleistocene age; diameter 12 inches, depth 36 feet, tile casing. Measuring point, top south edge of casing, 1.30 feet above lsd. Highest water level 8.56 below lsd, Oct. 11, 1961, July 19, 1962; lowest 25.00 below lsd, July 10, 1955. Records available: 1946-63. Jan. 17, 14.16; Apr. 8, P; July 12, 20.84; Oct. 10, 19.80; Dec. 20, 10.79.

7-15-17ac. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1 1/4 inches, depth 34 feet. Measuring point, top of pipe, 2.60 feet above lsd. Highest water level 20.44 below lsd, Aug. 4, 1961; lowest 24.39 below lsd, Apr. 18, 1957. Records available: 1956-61. Measurement discontinued.

OTTAWA COUNTY

9-4-6ccd. (MB) U.S.B.R. Bored, water-table observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 30 feet. Measuring point, top of pipe, 2.10 feet above lsd. Highest water level 13.93 below lsd, Mar. 12, 1962; lowest 21.38 below lsd, May 14, 1960. Records available: 1960-63. Mar. 20, 15.72; June 6, 15.82; Sept. 19, 17.02; Dec. 9, 17.54.

9-4-7cdc. (MB) U.S.B.R. Bored observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 31 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 7.10 below lsd, June 12, 1962; lowest 12.89 below lsd, Aug. 26, 1960. Records available: 1960-63. Mar. 20, 8.80; June 6, 10.10; Sept. 19, 12.18; Dec. 9, 12.33.

9-4-7ddd. (MB) U.S.B.R. Bored observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 40 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 17.24 below lsd, Sept. 18, 1961; lowest 22.32 below lsd, Nov. 28, 1960. Records available: 1960-63. Mar. 20, 21.01; June 6, 21.20; Sept. 19, 22.05; Dec. 9, 22.26.

9-4-32ab. (MB) U.S.B.R. Bored observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 31 feet. Measuring point, top of pipe, 1.60 feet above lsd. Highest water level 5.00 below lsd, June 12, 1962; lowest 13.35 below lsd, Dec. 9, 1963. Records available: 1960-63. Mar. 20, 9.37; June 6, 10.42; Sept. 19, 11.59; Dec. 9, 13.35.

9-4-33abb. (MB) U.S.B.R. Bored observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 31 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 13.34 below lsd, June 26, 1961; lowest 24.53 below lsd, Dec. 9, 1963. Records available: 1960-63. Mar. 20, 22.59; June 6, 23.21; Sept. 19, 24.07; Dec. 9, 24.53.

9-4-33bab. (MB) U.S.B.R. Bored observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 31 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 12.47 below lsd, Mar. 12, 1962; lowest 18.80 below lsd, May 10, 1961. Records available: 1960-63. Mar. 20, 15.88; June 6, 16.55; Sept. 19, 17.82; Dec. 9, 18.72.

9-5-1abb. (MB) U.S.B.R. Bored observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 30 feet. Measuring point, top of pipe, 1.60 feet above lsd. Highest water level 10.64 below lsd, Sept. 18, 1961; lowest 19.76 below lsd, May 10, 1961. Records available: 1960-63. Mar. 20, 16.14; June 6, 16.98; Sept. 19, 18.16; Dec. 9, 18.66.

PAWNEE COUNTY

7. (C) Ralph Lupfer. NE NE sec. 18, T 22 S, R 17 W. Drilled, water-table irrigation well in terrace deposits of Pleistocene age; diameter 19 inches, depth 119 feet. Measuring point, SW side of pump under tin flap, 0.80 foot above lsd. Highest water level 18.95 below lsd, June 25, 1951; lowest 38.28 below lsd, Sept. 18, 1956. Records available: 1940-63. Measurement discontinued.

Jan. 15	26.72	Mar. 29	26.81	June 25	28.20
Feb. 20	26.72	Apr. 22	29.57	July 25	31.54

8a. (C) Fred B. Reed. NW NW sec. 6, T 22 S, R 16 W. Bored, water-table observation well in alluvium; diameter 1 1/4 inches, depth 30 feet. Measuring point, top of pipe, 4.70 feet above lsd. Highest water level 15.85 below lsd, Mar. 20, 1962; lowest 17.45 below lsd, Nov. 22, 1963. Records available: 1961-63.

Jan. 15	16.17	May 20	15.90	Sept. 23	17.13
Feb. 20	16.18	June 25	17.10	Oct. 22	17.25
Mar. 29	16.10	July 25	17.07	Nov. 22	17.45
Apr. 22	16.17	Aug. 21	16.85	Dec. 16	17.26

PAWNEE COUNTY—concluded

21-18-32daa. (C) Sanford Co-Op. Drilled, unused, water-table domestic well in alluvium; diameter 5 inches, depth 73 feet. Measuring point, highest part of casing on northeast side, 0.40 foot above lsd. Highest water level 17.91 below lsd, Apr. 22, 1963; lowest 20.01 below lsd, Aug. 21, 1963. Records available: 1963.

Feb. 20	18.84	July 25	19.57	Oct. 22	19.70
Mar. 29	17.91	Aug. 21	20.01	Nov. 22	19.79
Apr. 22	17.94	Sept. 23	19.30	Dec. 16	19.72
June 25	19.08				

21-19-30cc. (C) Kathryn Maller. Water-table irrigation well in terrace deposits; diameter 16 inches, depth 114 feet. Measuring point, hole in pump base, 0.30 foot above lsd. Highest water level 31.17 below lsd, June 22, 1960; lowest 38.09 below lsd, Aug. 21, 1963. Records available: 1959-63.

Jan. 15	32.78	May 20	P	Sept. 23	37.69
Feb. 20	32.74	June 25	34.15	Oct. 22	36.74
Mar. 29	35.44	July 25	P	Nov. 22	36.22
Apr. 22	P	Aug. 21	38.09	Dec. 16	35.65

PHILLIPS COUNTY

4-16-34bb. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 32 feet. Measuring point, top of pipe, 1.60 feet above lsd. Highest water level 24.44 below lsd, Oct. 20, 1960; lowest 30.50 below lsd, Mar. 12, Aug. 13, 1957. Records available: 1951-60, 1962. No measurement made in 1963.

4-19-35ab. (MB) Glenn Seeger. Drilled, water-table domestic and stock well in terrace deposits of Pleistocene age; diameter 10 inches, depth 35 feet. Measuring point, top of casing, 1.30 feet above lsd. Highest water level 7.43 below lsd, May 24, 1952; lowest 15.93 below lsd, Mar. 12, 1957. Records available: 1946-60. No measurement made in 1963.

POTTAWATOMIE COUNTY

9-11-31dcc. (C) Div. of Water Resources. Driven, water-table observation well in alluvium; diameter $\frac{3}{4}$ inch, depth (remeasured 1962) 26 feet. Measuring point, top of pipe, 3.20 feet above lsd. Highest water level 11.84 below lsd, June 30, 1961; lowest 16.56 below lsd, Dec. 27, 1963. Records available: 1959-63.

Jan. 2	15.69	June 3	15.53	Sept. 30	15.89
Feb. 1	15.64	July 1	15.76	Oct. 31	15.87
Mar. 1	15.73	Aug. 1	15.60	Dec. 2	16.06
Apr. 1	15.54	31	15.95	27	16.56
May 1	15.77				

10-8-14cba. (C) Jim Ryan. Drilled irrigation well in alluvium; diameter 18 inches, depth 68 feet. Measuring point, cutout in pump frame, 1.50 feet above lsd. Highest water level 17.91 below lsd, June 30, 1961; lowest 23.97 below lsd, Dec. 27, 1963. Records available: 1961-63.

Jan. 2	22.89	June 3	23.17	Sept. 30	23.26
Feb. 1	22.96	July 1	P	Oct. 31	23.26
Mar. 1	23.09	Aug. 1	P	Dec. 2	23.58
Apr. 1	22.93	31	23.47	27	23.97
May 1	23.17				

PRATT COUNTY

26-11-13da. (C) H. C. Jeffers. Drilled, unused well in sand and gravel of Pleistocene age; diameter 8 inches, depth 28 feet. Measuring point, top of casing, 1.00 foot above lsd. Measurements for Sept. and Oct. 1951 erroneously omitted from published records. Highest water level 5.74 below lsd, Sept. 8, 1951 (published previously as 7.10 below lsd, Aug. 23, 1951); lowest 16.79 below lsd, Oct. 21, 1963. Records available: 1951-63.

1951		1963		1963	
Sept. 8	5.74	Jan. 14	14.60	Oct. 21	16.79
24	5.96	Apr. 23	15.03	Dec. 17	14.36
Oct. 12	6.47	July 26	16.00		

26-13-34bc. (C) George Soaken. Industrial well in sand and gravel of Pleistocene age; diameter 6 inches, depth 75 feet. Measuring point, top of casing, 0.70 foot above lsd. Highest water level 41.63 below lsd, July 18, 1960; lowest 43.84 below lsd, July 26, 1963. Records available: 1959-63. July 26, 43.84; Oct. 23, 43.70; Dec. 19, 43.66.

28-11-2bc. (C) Mr. Armitstead. Drilled industrial well in sand and gravel of Pleistocene age; diameter 6 inches, depth 66 feet. Measuring point, top north side of pipe, 0.30 foot above lsd. Highest water level 13.08 below lsd, Dec. 27, 1962; lowest 14.90 below lsd, Apr. 20, 1961. Records available: 1961-63.

Jan. 14	13.12	Apr. 23	14.33	Oct. 21	14.16
Feb. 19	14.04	July 26	14.80	Dec. 17	14.85
Mar. 28	14.15				

29-13-13aa. (C) E. R. Kessler. Drilled, unused irrigation well in sand and gravel of Pleistocene age; diameter 10 inches, depth 119 feet. Measuring point, top south side of concrete platform, 0.40 foot above lsd. Highest water level 87.65 below lsd, June 29, 1953; lowest 92.25 below lsd, Dec. 15, 1954. Records available: 1951-63.

Jan. 16	89.30	July 26	89.37	Dec. 20	89.40
Apr. 24	89.49	Oct. 23	89.27		

RAWLINS COUNTY

1-33-29cc. (C) Joseph Parker. Drilled, water-table stock well in Ogallala Formation; diameter 5 inches, depth 124 feet. Measuring point, top south side of casing, 0.60 foot above lsd. Highest water level 115.45 below lsd, July 10, 1963; lowest 119.50 below lsd, Oct. 15, 1963. Records available: 1952-63. Measurement discontinued.

Jan. 15	115.70	July 10	115.45	Dec. 18	119.23
Apr. 10	115.55	Oct. 15	119.50		

3-31-7cb. (C) Ernest Carlson. Drilled, water-table stock well in Ogallala Formation; diameter 6 inches, depth 163 feet. Measuring point, hole in east side of pump base, 0.25 foot above lsd. Highest water level 146.25 below lsd, Apr. 12, 1960; lowest 148.09 below lsd, Jan. 15, 1962. Records available: 1959-63.

Jan. 15	146.56	July 10	P	Dec. 18	146.44
Apr. 10	P	Oct. 14	146.51		

3-33-3dec. (C) George Argabright. Drilled, water-table irrigation well in Ogallala Formation; diameter 18 inches, depth 68 feet. Measuring point, hole in north side of pump head base, at land surface. Highest water level 20.38 below lsd, Oct. 9, 1962; lowest 26.78 below lsd, July 9, 1963. Records available: 1959-63.

Jan. 15	21.01	July 9	26.78	Dec. 18	22.72
Apr. 10	20.80	Oct. 15	23.09		

3-36-17ccc. (C) Clarence K. Fisher. Drilled, water-table irrigation well in Ogallala Formation; diameter 18 inches, depth 300 feet. Measuring point, hole in pump base, 0.50 foot above lsd. Highest water level 195.30 below lsd, Apr. 10, 1963; lowest 203.86 below lsd, Sept. 6, 1962. Records available: 1962-63.

Jan. 15	195.83	July 9	P	Dec. 18	196.59
Apr. 10	195.30	Oct. 15	198.26		

3-36-23bb. (C) C. Sramek. Drilled, unused, water-table well in Ogallala Formation; diameter 5 inches, depth 196 feet. Measuring point, base of hole in southeast side of casing, 0.35 foot above lsd. Highest water level 168.75 below lsd, Aug. 4, 1952; lowest 187.80 below lsd, July 12, 1961. Records available: 1952-63. Apr. 10, 184.64; July 9, 184.52. Measurement discontinued.

4-33-18dd. (C) W. B. Minney. Drilled, unused, water-table well in Ogallala Formation; diameter 5 inches, depth 104 feet. Measuring point, top north side of hole drilled in pump base, 1.20 feet above lsd. Highest water level 86.61 below lsd, Aug. 4, 1952; lowest 88.52 below lsd, Oct. 13, 1959, Jan. 13, 1960. Records available: 1952-63. Apr. 10, 87.86; July 10, 87.80; Oct. 15, 87.80; Dec. 18, 87.81.

RENO COUNTY

855a. (C) City of Wichita. SE SE sec. 9, T 24 S, R 4 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 67 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 0.65 below lsd, July 1, 1957; lowest 9.45 below lsd, Oct. 1, 1956. Records available: 1938-46, 1950, 1956-63. Mar. 29, 6.36; July 1, 7.48; Oct. 2, 6.98; Dec. 31, 7.26.

22-6-33ba. (C) City of Willowbrook. Drilled, water-table irrigation well in Pleistocene terrace deposits; diameter 12 inches, depth 44 feet. Measuring point, north edge of casing, 0.75 foot above lsd. Highest water level 8.33 below lsd, Sept. 21, 1962; lowest 10.78 below lsd, Sept. 27, 1963. Records available: 1961-63.

Jan. 14	9.97	May 20	10.04	Sept. 27	10.78
Feb. 19	10.04	June 24	10.58	Oct. 21	10.10
Mar. 28	10.08	July 26	10.32	Nov. 21	10.01
Apr. 23	P	Aug. 22	10.45	Dec. 17	10.30

REPUBLIC COUNTY

1-5-7bb. (MB) U.S.G.S. Driven and bored, water-table observation well in alluvium; diameter 1¼ inches, depth 13 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 2.75 below lsd, Sept. 9, 1958; lowest 9.62 below lsd, Mar. 28, 1956. Records available: 1947-63.

Mar. 8	7.00	June 5	6.70	Sept. 6	8.20
Apr. 12	6.39	July 10	7.40	Nov. 18	7.40
May 7	5.79	Aug. 8	7.90		

1-5-7cb. (MB) U.S.G.S. Bored, water-table observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 25 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 15.38 below lsd, July 24, 1951; lowest 23.13 below lsd, Apr. 24, 1957. Records available: 1947-63.

Mar. 8	18.24	June 5	17.50	Sept. 6	17.80
Apr. 12	17.88	July 10	17.60	Nov. 18	17.10
May 7	17.49	Aug. 8	17.60		

1-5-8cb. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 23 feet. Measuring point, top of pipe, 2.20 feet above lsd. Highest water level 4.97 below lsd, Sept. 9, 1958; lowest 11.41 below lsd, Feb. 21, 1957. Records available: 1955-63.

Mar. 8	7.59	June 14	7.90	Sept. 10	8.90
Apr. 12	7.29	July 11	9.10	Nov. 14	8.40
May 8	6.80	Aug. 9	9.50		

1-5-8dc. (MB) U.S.G.S. Jetted, water-table observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 19 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 0.70 below lsd, May 3, 1951; lowest 8.57 below lsd, Sept. 1, 1955. Records available: 1950-63.

Mar. 8	1.22	July 14	2.80	Sept. 10	3.30
Apr. 12	1.63	July 11	4.00	Nov. 14	2.20
May 8	2.20	Aug. 9	5.00		

1-5-9ba. (MB) U.S.G.S. Jetted water-table observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 38 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 18.70 below lsd, Apr. 21, 1960; lowest 24.22 below lsd, Sept. 22, 1955. Records available: 1950-56, 1958-63.

Jan. 9	22.50	May 22	22.20	Sept. 10	23.50
Apr. 2	22.50	July 16	23.50	Nov. 14	23.10

1-5-14dc. (MB) U.S.G.S. Jetted, water-table observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 21 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 2.93 below lsd, Mar. 19, 1952; lowest 12.10 below lsd, Nov. 8, 1961. Records available: 1950-56, 1958-63.

Jan. 9	5.40	May 22	5.00	Sept. 10	7.40
Apr. 2	4.70	July 16	7.30	Nov. 14	6.40

REPUBLIC COUNTY—*continued*

1-5-16dd. (MB) U.S.G.S. Jetted, water-table observation well in alluvium; diameter $\frac{3}{4}$ inch, depth 18 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 9.10 below lsd, May 3, 1961; lowest dry, June 16, 1955. Records available: 1950-61. No measurement made in 1963.

1-5-18aa. (MB) U.S.B.R. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 23 feet. Measuring point, top of pipe, 2.10 feet above lsd. Highest water level 2.54 below lsd, Mar. 8, 1963; lowest 17.80 below lsd, Sept. 1, 1955. Records available: 1955-63.

Mar. 8	2.54	June 14	3.80	Sept. 10	3.70
Apr. 12	3.38	July 11	5.50	Nov. 14	2.70
May 8	3.88	Aug. 9	5.90		

1-5-18bb. (MB) U.S.B.R. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 28 feet. Measuring point, top of pipe, 1.75 feet above lsd. Highest water level 17.65 below lsd, Nov. 18, 1963; lowest 23.30 below lsd, Mar. 28, 1956. Records available: 1955-63.

Mar. 8	18.42	June 5	18.25	Sept. 6	18.35
Apr. 12	18.34	July 10	18.25	Nov. 18	17.65
May 7	18.27	Aug. 8	18.35		

1-5-18cb. (MB) U.S.B.R. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 62 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 38.60 below lsd, Aug. 8, 1963; lowest 52.18 below lsd, Sept. 1, 1955. Records available: 1955-63.

Mar. 8	41.49	June 5	41.30	Sept. 6	38.90
Apr. 12	41.77	July 10	40.30	Nov. 18	39.20
May 8	41.45	Aug. 8	38.60		

1-5-18da. (MB) U.S.B.R. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 93 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 63.80 below lsd, Aug. 9, Sept. 10, Nov. 14, 1963; lowest 79.29 below lsd, May 6, 1958. Records available: 1955-63.

Mar. 8	65.08	June 14	65.10	Sept. 10	63.80
Apr. 12	65.33	July 11	64.20	Nov. 14	63.80
May 8	65.32	Aug. 9	63.80		

1-5-19cb. (MB) U.S.B.R. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 65 feet. Measuring point, top of pipe, 2.90 feet above lsd. Highest water level 14.00 below lsd, Sept. 6, 1963; lowest 33.85 below lsd, May 3, 1956. Records available: 1955-63.

Mar. 8	21.99	June 5	23.00	Sept. 6	14.00
Apr. 12	22.60	July 10	20.10	Nov. 18	17.00
May 7	22.53	Aug. 8	15.10		

1-5-19cc. (MB) U.S.B.R. Drilled, water-table observation well in sand and gravel of Pleistocene age; di-

ameter $1\frac{1}{4}$ inches, depth 60 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 25.80 below lsd, Sept. 6, 1963; lowest 36.70 below lsd, Sept. 1, 1955. Records available: 1955-63.

Mar. 8	27.33	June 5	28.10	Sept. 6	25.80
Apr. 12	27.53	July 10	28.20	Nov. 18	26.20
May 7	27.62	Aug. 8	26.30		

1-5-21cc. (MB) U.S.B.R. Drilled, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 40 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 14.17 below lsd, Aug. 4, 1961; lowest 22.35 below lsd, Sept. 1, 1955. Records available: 1955-63.

Mar. 13	17.82	June 14	18.00	Sept. 10	15.50
Apr. 12	17.90	July 11	15.30	Nov. 14	16.10
May 8	17.64	Aug. 9	14.60		

1-5-34bb. (MB) U.S.B.R. Bored observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 23 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 3.36 below lsd, Aug. 4, 1961; lowest dry, Apr. 24, 1957. Records available: 1949-63.

Mar. 13	12.09	June 14	11.30	Sept. 12	5.80
Apr. 12	12.23	July 11	5.70	Nov. 12	7.98
May 8	11.50	Aug. 13	4.80		

2-4-18cc. (MB) U.S.G.S. Jetted well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 36 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 10.90 below lsd, July 5, 1951; lowest 18.83 below lsd, Sept. 22, 1955. Records available: 1950-56, 1958-63.

Jan. 9	13.80	June 18	14.00	Sept. 21	15.30
Apr. 2	13.60	July 16	14.80	Nov. 14	13.50
May 22	14.00	Sept. 10	16.30		

2-4-18dc. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 44 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 15.40 below lsd, July 16, 1963; lowest 31.80 below lsd, Sept. 22, 1955. Records available: 1950-56, 1958-59, 1962-63.

1962		1962		1963	
Feb. 13	24.20	Aug. 8	17.30	May 22	20.30
Apr. 3	24.20	Nov. 15	19.50	June 18	17.10
May 16	24.20	1963		July 16	15.40
June 6	20.30	Jan. 9	20.50	Sept. 21	15.90
July 26	17.30	Apr. 2	21.40	Nov. 14	18.10

2-4-31aa. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 17 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 0.38 below lsd, Mar. 19, 1952; lowest 8.67 below lsd, Sept. 22, 1955. Records available: 1950-56, 1958-61. No measurement made in 1963.

2-4-32cc. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch,

depth 24 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 0.07 below lsd, Mar. 19, 1952; lowest 13.65 below lsd, Sept. 22, 1955. Records available: 1950-56, 1958-63.

Jan. 8	6.60	June 18	7.60	Sept. 23	7.90
Apr. 2	6.60	July 16	8.10	Nov. 14	8.50
May 22	7.30	Sept. 11	8.60		

2-5-5dd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 44 feet. Measuring point, top of pipe, 2.20 feet above lsd. Highest water level 9.85 below lsd, May 4, 1960; lowest 18.07 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 14	13.56	June 17	13.80	Sept. 17	13.60
Apr. 15	13.71	Aug. 21	14.50	Nov. 19	14.00
May 8	12.75				

2-5-6dd. (MB) U.S.B.R. Drilled observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 46 feet. Measuring point, top of pipe, 2.10 feet above lsd. Highest water level 7.40 below lsd, Aug. 21, 1963; lowest 23.99 below lsd, Nov. 8, 1956. Records available: 1956-63.

Mar. 14	12.05	June 17	12.10	Sept. 17	9.90
Apr. 15	12.20	Aug. 21	7.40	Nov. 19	11.20
May 8	11.04				

2-5-7dd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 40 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 22.11 below lsd, May 4, 1960; lowest 28.21 below lsd, May 8, 1957. Records available: 1956-63.

Mar. 14	23.75	June 17	23.90	Sept. 17	24.60
Apr. 15	23.56	Aug. 21	24.40	Nov. 19	24.70
May 8	23.58				

2-5-10cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 32 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 8.03 below lsd, May 4, 1960; lowest 16.99 below lsd, Feb. 20, 1957. Records available: 1956-63.

Mar. 14	8.27	June 17	9.70	Sept. 17	10.80
Apr. 15	8.60	Aug. 21	11.20	Nov. 19	9.30
May 8	8.20				

2-5-10dd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 42 feet. Measuring point, top of pipe, 2.30 feet above lsd. Highest water level 24.67 below lsd, Feb. 9, 1962; lowest 33.32 below lsd, July 12, 1956. Records available: 1956-63.

Mar. 14	29.90	June 17	30.00	Sept. 17	30.90
Apr. 15	29.35	Aug. 21	30.70	Nov. 19	31.20
May 8	29.35				

2-5-15dd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 44 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 14.50 below lsd, Aug. 21, 1963; lowest 36.82 below lsd, May 9, 1956. Records available: 1956-63.

Mar. 14	19.48	June 17	20.60	Sept. 17	15.30
Apr. 15	19.52	Aug. 21	14.50	Nov. 19	16.60
May 8	19.62				

2-5-17aa. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 23 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 5.55 below lsd, May 4, 1960; lowest 13.67 below lsd, Feb. 20, 1957. Records available: 1956-63.

Mar. 14	11.04	June 17	11.10	Sept. 17	11.90
Apr. 15	10.81	Aug. 21	11.70	Nov. 19	12.00
May 8	10.43				

2-5-18bb. (MB) U.S.B.R. Drilled observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 49 feet. Measuring point, top of pipe, 2.20 feet above lsd. Highest water level 5.32 below lsd, July 27, 1962; lowest 12.28 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 14	8.54	June 17	7.40	Sept. 17	6.90
Apr. 15	8.02	Aug. 21	6.50	Nov. 19	7.80
May 8	7.23				

2-5-18dd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 30 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 9.82 below lsd, July 27, 1962; lowest 18.30 below lsd, Feb. 20, 1957. Records available: 1956-63.

Mar. 14	10.87	June 17	10.90	Sept. 17	12.80
Apr. 15	10.58	Aug. 21	12.40	Nov. 19	12.80
May 8	10.19				

2-5-19cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 23 feet. Measuring point, top of pipe, 2.90 feet above lsd. Highest water level 2.87 below lsd, Mar. 14, 1963; lowest 11.33 below lsd, Feb. 19, 1958. Records available: 1956-63.

Mar. 14	2.87	June 18	4.50	Sept. 18	4.80
Apr. 15	3.95	Aug. 21	4.80	Nov. 19	3.10
May 17	3.40				

2-5-20aa. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 44 feet. Measuring point, top of pipe, 3.50 feet above lsd. Highest water level 17.72 below lsd, Feb. 10, 1960; lowest 25.65 below lsd, Sept. 20, 1956. Records available: 1956-63.

Mar. 14	19.30	June 17	20.00	Sept. 17	20.80
Apr. 15	19.42	Aug. 21	20.90	Nov. 19	20.10
May 8	19.30				

2-5-20dd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 23 feet. Measuring point, top of pipe, 1.90 feet above lsd. Highest water level 3.59 below lsd, May 6, 1960; lowest 17.14 below lsd, Nov. 8, 1956. Records available: 1956-63.

Mar. 14	4.56	June 17	6.00	Sept. 17	4.10
Apr. 15	4.88	Aug. 21	3.80	Nov. 19	4.10
May 8	4.57				

REPUBLIC COUNTY—*continued*

2-5-21aa. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 44 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 18.50 below lsd, Nov. 19, 1963; lowest 25.83 below lsd, Feb. 19, 1958. Records available: 1956-63.

Mar. 14	19.16	June 17	18.70	Sept. 17	18.90
Apr. 15	18.78	Aug. 21	18.70	Nov. 19	18.50
May 8	18.67				

2-5-23dd. (MB) U.S.G.S. Jetted observation well in alluvium; diameter ¾ inch, depth 13 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 2.30 below lsd, July 5, 1951; lowest 8.96 below lsd, Mar. 21, 1957. Records available: 1950-63.

Mar. 14	4.90	June 17	5.20	Sept. 17	4.80
Apr. 15	5.00	Aug. 21	3.70	Nov. 19	4.90
May 8	4.65				

2-5-27aa. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 59 feet. Measuring point, top of pipe, 2.10 feet above lsd. Highest water level 24.10 below lsd, Nov. 19, 1963; lowest 34.94 below lsd, Feb. 19, 1958. Records available: 1956-63.

Mar. 14	24.94	June 17	25.40	Sept. 17	24.30
Apr. 15	24.84	Aug. 21	24.30	Nov. 19	24.10
May 8	24.94				

2-5-27cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 48 feet. Measuring point, top of pipe, 2.70 feet above lsd. Highest water level 16.10 below lsd, Aug. 21, 1963; lowest 29.90 below lsd, May 8, 1957. Records available: 1956-63.

Mar. 14	22.54	June 18	23.30	Sept. 18	17.80
Apr. 15	22.56	Aug. 21	16.10	Nov. 19	20.30
May 17	22.92				

2-5-28aa. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 23 feet. Measuring point, top of pipe, 2.10 feet above lsd. Highest water level 6.90 below lsd, Mar. 14, 1963; lowest 19.57 below lsd, Feb. 20, 1957. Records available: 1956-63. Mar. 14, 6.90; May 17, 6.92; June 17, 7.90. Well destroyed.

2-5-28cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 40 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 4.50 below lsd, Nov. 19, 1963; lowest 14.90 below lsd, Feb. 20, May 8, 1957. Records available: 1956-63.

Mar. 14	5.57	June 18	5.60	Sept. 18	5.10
Apr. 15	5.54	Aug. 21	5.30	Nov. 19	4.50
May 17	5.47				

2-5-30aa. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 29 feet. Measuring point, top of pipe, 2.60 feet above lsd. Highest water level 19.48 below lsd, May 12, 1958; lowest 24.57 below lsd, May 8, 1957. Records available: 1956-63.

Mar. 14	22.19	June 18	22.10	Sept. 18	22.40
Apr. 15	22.22	Aug. 21	22.20	Nov. 19	22.30
May 17	22.13				

2-5-31aa. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 44 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 13.10 below lsd, Aug. 21, Nov. 19, 1963; lowest 23.08 below lsd, Nov. 8, 1956. Records available: 1956-63.

Mar. 14	14.28	June 18	13.70	Sept. 18	13.30
Apr. 15	14.03	Aug. 21	13.10	Nov. 19	13.10
May 17	13.83				

2-5-31dd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 44 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 4.40 below lsd, Jan. 8, 1963; lowest 22.77 below lsd, Nov. 8, 1956. Records available: 1956-58, 1961-62. No measurement made in 1963.

2-5-35dd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 52 feet. Measuring point, top of pipe, 2.20 feet above lsd. Highest water level 23.50 below lsd, Aug. 21, 1963; lowest 40.19 below lsd, Feb. 20, 1957. Records available: 1956-63.

Mar. 14	30.37	June 18	31.00	Sept. 18	25.50
Apr. 15	30.30	Aug. 21	23.50	Nov. 19	26.80
May 17	30.70				

2-5-36ab. (MB) U.S.G.S. Jetted observation well in alluvium; diameter ¾ inch, depth 28 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 16.10 below lsd, Aug. 3, 1951; lowest 22.30 below lsd, Jan. 27, 1958. Records available: 1950-56, 1958-63.

Jan. 8	18.50	July 16	18.70	Sept. 23	17.10
Apr. 2	19.10	Sept. 11	17.50	Nov. 14	18.00
June 18	19.20				

3-4-17bb. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 22 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 2.00 below lsd, July 3, 1951; lowest 11.69 below lsd, Feb. 20, 1957. Records available: 1950-63.

Mar. 15	6.30	June 20	7.00	Sept. 18	7.80
Apr. 16	6.28	Aug. 22	7.70	Nov. 20	7.20
May 17	6.65				

3-4-17cc. (MB) U.S.G.S. Jetted observation well in sand; diameter ¾ inch, depth 21 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 1.20 below lsd, July 3, 1951; lowest 8.99 below lsd, Sept. 22, 1955. Records available: 1950-63.

Mar. 15	6.54	June 20	7.20	Sept. 18	8.20
Apr. 16	6.37	Aug. 22	8.10	Nov. 20	7.80
May 17	6.74				

3-4-28ab. (MB) U.S.G.S. Jetted observation well in sand; diameter ¾ inch, depth 43 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level

17.70 below lsd, Aug. 1, 1951; lowest 28.22 below lsd, Jan. 27, 1958. Records available: 1950-56, 1958-63.

Jan. 8	22.70	May 16	23.40	Sept. 11	25.00
Apr. 3	23.40	July 16	23.80	Nov. 14	23.00

3-4-29ab. (MB) U.S.G.S. Jetted observation well in sand; diameter $\frac{3}{4}$ inch, depth 25 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 2.50 below lsd, July 2, 1951; lowest 9.64 below lsd, Sept. 22, 1955. Records available: 1950-56, 1958-63.

Jan. 8	6.60	May 16	6.90	Nov. 14	8.00
Apr. 2	6.70	July 16	8.10		

3-4-30ba. (MB) U.S.B.R. Drilled observation well; diameter $1\frac{1}{4}$ inches, depth 48 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 38.65 below lsd, Feb. 12, 1962; lowest 45.06 below lsd, July 14, 1961. Records available: 1956-63.

Mar. 15	39.70	June 20	40.50	Sept. 18	41.20
Apr. 16	40.03	Aug. 22	41.00	Nov. 20	40.80
May 17	40.28				

3-4-32cc. (MB) U.S.G.S. Jetted observation well in sand; diameter $\frac{3}{4}$ inch, depth 16 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 0.70 below lsd, June 13, 1951; lowest 8.84 below lsd, Mar. 21, 1957. Records available: 1950-63.

Mar. 20	2.90	June 20	2.80	Sept. 19	3.30
Apr. 16	2.90	Aug. 22	3.10	Nov. 20	3.70
May 20	2.88				

3-5-1ab. (MB) U.S.G.S. Jetted observation well in sand; diameter $\frac{3}{4}$ inch, depth 27 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 2.80 below lsd, June 15, 1951; lowest 13.73 below lsd, Nov. 8, 1956. Records available: 1950-59, 1961-63.

Mar. 15	9.14	June 20	9.75	Sept. 18	9.60
Apr. 15	8.80	Aug. 21	8.90	Nov. 19	9.50
May 17	9.25				

3-5-2ba. (MB) U.S.B.R. Drilled observation well; diameter $1\frac{1}{4}$ inches, depth 37 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 11.05 below lsd, Sept. 19, 1962; lowest 20.65 below lsd, Feb. 19, 1958. Records available: 1956-62. No measurement made in 1963.

3-5-3aa. (MB) U.S.B.R. Drilled observation well; diameter $1\frac{1}{4}$ inches, depth 27 feet. Measuring point, top of pipe, 1.40 feet above lsd. Highest water level 11.23 below lsd, July 27, 1962; lowest 18.81 below lsd, Feb. 19, 1958. Records available: 1956-63.

Mar. 14	11.42	June 18	11.90	Sept. 18	12.30
Apr. 15	11.29	Aug. 21	12.50	Nov. 19	11.40
May 17	11.46				

3-5-3cc. (MB) U.S.B.R. Drilled observation well; diameter $1\frac{1}{4}$ inches, depth 33 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 14.76

below lsd, Apr. 15, 1963; lowest 28.00 below lsd, Sept. 5, 1957. Records available: 1956-63.

Mar. 14	14.78	June 19	15.70	Sept. 18	15.90
Apr. 15	14.76	Aug. 21	15.90	Nov. 19	15.10
May 17	15.15				

3-5-4aa. (MB) U.S.B.R. Drilled observation well; diameter $1\frac{1}{4}$ inches, depth 47 feet. Measuring point, top of pipe, 1.20 feet above lsd. Highest water level 5.74 below lsd, Sept. 19, 1962; lowest 25.47 below lsd, Feb. 19, 1958. Records available: 1956-63.

Mar. 14	6.16	June 18	6.50	Sept. 18	6.30
Apr. 15	6.07	Aug. 21	6.10	Nov. 19	6.20
May 17	6.26				

3-5-5aa. (MB) U.S.B.R. Drilled observation well; diameter $1\frac{1}{4}$ inches, depth 52 feet. Measuring point, top of pipe, 1.90 feet above lsd. Highest water level 5.35 below lsd, Sept. 14, 1961; lowest 16.09 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 14	6.70	June 18	7.80	Sept. 18	6.50
Apr. 15	7.10	Aug. 21	5.80	Nov. 19	6.70
May 17	7.38				

3-5-5dd. (MB) U.S.B.R. Drilled observation well; diameter $1\frac{1}{4}$ inches, depth 55 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 13.52 below lsd, Sept. 14, 1961; lowest 24.10 below lsd, Feb. 20, 1957. Records available: 1956-63.

Mar. 14	16.15	June 19	17.20	Sept. 18	16.50
Apr. 15	16.15	Aug. 21	13.90	Nov. 19	16.90
May 17	16.53				

3-5-6dd. (MB) U.S.B.R. Drilled observation well; diameter $1\frac{1}{4}$ inches, depth 36 feet. Measuring point, top of pipe, 1.40 feet above lsd. Highest water level 8.43 below lsd, Mar. 14, 1963; lowest 21.78 below lsd, Nov. 8, 1956. Records available: 1956-63.

Mar. 14	8.43	June 19	9.80	Sept. 17	9.20
Apr. 15	8.80	Aug. 21	8.90	Nov. 19	8.90
May 17	9.42				

3-5-8cc. (MB) U.S.B.R. Drilled observation well; diameter $1\frac{1}{4}$ inches, depth 23 feet. Measuring point, top of pipe, 1.70 feet above lsd. Highest water level 1.93 below lsd, Sept. 15, 1961; lowest dry, Feb. 20, May 8, 1957. Records available: 1956-63.

May 17	8.85	Aug. 21	9.40	Nov. 19	9.70
June 20	9.40	Sept. 18	9.50		

3-5-10aa. (MB) U.S.B.R. Drilled observation well; diameter $1\frac{1}{4}$ inches, depth 44 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 12.40 below lsd, Aug. 21, 1963; lowest 26.49 below lsd, Feb. 19, 1958. Records available: 1956-63.

Mar. 15	15.97	June 19	15.40	Sept. 18	14.70
Apr. 15	15.80	Aug. 21	12.40	Nov. 19	14.30
May 17	15.58				

REPUBLIC COUNTY—*continued*

3-5-11dd. (MB) Rex Farrell. Dug, unused well; diameter 36 inches, depth 40 feet. Measuring point, top of casing, 0.50 foot above lsd. Highest water level 13.71 below lsd, May 14, 1952; lowest 26.99 below lsd, May 12, 1958. Records available: 1950-61. Measurement discontinued.

3-5-12aa. (MB) U.S.B.R. Drilled observation well; diameter 1½ inches, depth 33 feet. Measuring point, top of pipe, 3.30 feet above lsd. Highest water level 14.46 below lsd, Sept. 15, 1961; lowest 20.37 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 15	16.05	June 19	16.30	Sept. 18	15.30
Apr. 15	15.97	Aug. 21	15.70	Nov. 19	14.50
May 17	16.05				

3-5-12bb. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 23 feet. Measuring point, top of pipe, 1.10 feet above lsd. Highest water level 2.87 below lsd, Sept. 14, 1961; lowest 20.37 below lsd, Feb. 19, 1958. Records available: 1956-63.

Mar. 15	7.65	June 19	8.70	Sept. 18	7.20
Apr. 15	7.96	Aug. 21	5.70	Nov. 19	7.60
May 17	8.39				

3-5-12cd. (MB) U.S.B.R. Driven observation well; diameter 1¼ inches, depth 33 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 15.10 below lsd, Aug. 21, 1963; lowest 29.50 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 15	18.30	June 20	19.00	Sept. 18	16.40
Apr. 15	18.40	Aug. 21	15.10	Nov. 19	16.60
May 17	18.70				

3-5-13cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 21 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 1.40 below lsd, Aug. 21, 1963; lowest 19.68 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 15	3.42	June 20	4.50	Sept. 18	3.40
Apr. 16	3.60	Aug. 21	1.40	Nov. 20	3.60
May 17	3.89				

3-5-14cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 33 feet. Measuring point, top of pipe, 2.20 feet above lsd. Highest water level 10.50 below lsd, Aug. 21, 1963; lowest 27.52 below lsd, Feb. 19, 1958. Records available: 1956-63.

Mar. 15	12.43	June 20	13.10	Sept. 18	11.00
Apr. 16	12.80	Aug. 21	10.50	Nov. 20	11.10
May 17	13.04				

3-5-16bb. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 68 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 8.10 below lsd, Aug. 21, 1963; lowest 31.55 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 15	15.55	June 20	16.00	Sept. 18	9.40
Apr. 15	15.25	Aug. 21	8.10	Nov. 19	12.00
May 17	15.84				

3-5-16cd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 54 feet. Measuring point, top of pipe, 2.80 feet above lsd. Highest water level 12.50 below lsd, Aug. 22, 1963; lowest 30.16 below lsd, Feb. 20, 1957. Records available: 1956-63.

Mar. 15	13.68	June 20	14.40	Sept. 18	13.00
Apr. 16	13.78	Aug. 22	12.50	Nov. 20	13.20
May 17	14.05				

3-5-16dd. (MB) U.S.B.R. Bored observation well in clay; diameter 1¼ inches, depth 9 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 0.20 above lsd, Sept. 15, 1961; lowest dry, entire year of 1957. Records available: 1949-63.

Mar. 15	3.00	June 20	3.70	Sept. 18	3.00
Apr. 16	2.89	Aug. 22	2.60	Nov. 20	3.80
May 17	3.15				

3-5-18cd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 34 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 5.46 below lsd, Sept. 15, 1961; lowest 16.70 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 15	7.00	June 20	9.00	Sept. 18	10.40
Apr. 15	7.40	Aug. 21	9.90	Nov. 19	9.40
May 17	8.20				

3-5-18dd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 34 feet. Measuring point, top of pipe, 1.70 feet above lsd. Highest water level 15.00 below lsd, Nov. 19, 1963; lowest 24.56 below lsd, Feb. 20, 1957. Records available: 1956-63.

Mar. 15	16.50	June 20	16.70	Sept. 18	15.40
Apr. 15	16.40	Aug. 21	15.90	Nov. 19	15.00
May 17	16.80				

3-5-20ab. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 34 feet. Measuring point, top of pipe, 1.60 feet above lsd. Highest water level 7.64 below lsd, Sept. 19, 1962; lowest 25.59 below lsd, Feb. 19, 1958. Records available: 1956-63.

Mar. 15	8.47	June 20	9.20	Sept. 18	9.00
Apr. 15	9.01	Aug. 21	8.00	Nov. 19	9.10
May 17	9.05				

3-5-20cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 23 feet. Measuring point, top of pipe, 0.60 foot above lsd. Highest water level 8.50 below lsd, Aug. 22, 1963; lowest dry, entire year of 1957, Feb. 9, 1959. Records available: 1956-63.

Mar. 15	13.40	June 20	13.50	Sept. 18	10.80
Apr. 16	13.30	Aug. 22	8.50	Nov. 20	11.20
May 17	13.40				

3-5-21cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 33 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 6.30 below lsd, Aug. 22, 1963; lowest 27.99 below lsd, Feb. 19, 1958. Records available: 1956-63.

Mar. 15	9.04	June 20	9.70	Sept. 18	7.10
Apr. 16	9.22	Aug. 22	6.30	Nov. 20	7.30
May 17	9.45				

3-5-21dd. (MB) U.S.B.R. Bored observation well in clay; diameter 1¼ inches, depth 16 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 1.98 above lsd, Aug. 22, 1963; lowest dry, entire year of 1957. Records available: 1949-63.

Mar. 15	0.17	June 20	1.00	Sept. 18	+0.60
Apr. 16	0.82	Aug. 22	+1.98	Nov. 20	0.10
May 17	1.22				

3-5-22cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 33 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 4.47 below lsd, July 31, 1962; lowest dry, May 8, 1957. Records available: 1956-63.

Mar. 15	11.50	June 20	9.60	Sept. 18	9.40
Apr. 16	12.06	Aug. 22	6.10	Nov. 20	10.90
May 17	12.50				

3-5-33cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 29 feet. Measuring point, top of pipe, 2.80 feet above lsd. Highest water level 8.40 below lsd, Aug. 22, 1963; lowest 23.61 below lsd, Feb. 20, 1957. Records available: 1956-63.

Mar. 20	12.44	June 20	12.70	Sept. 19	10.20
Apr. 16	12.40	Aug. 22	8.40	Nov. 20	10.90
May 20	12.70				

3-5-35bb. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 44 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 5.80 below lsd, Sept. 15, 1961; lowest 22.20 below lsd, Sept. 5, 1957. Records available: 1956-63.

Mar. 20	8.72	June 20	10.10	Sept. 19	9.70
Apr. 16	8.94	Aug. 22	9.10	Nov. 20	8.80
May 20	9.58				

4-4-4cc. (MB) U.S.G.S. Jetted well in alluvium; diameter ¾ inch, depth 20 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 4.50 below lsd, July 2, 1951; lowest 12.76 below lsd, Jan. 27, 1958. Records available: 1950-56, 1958-63.

Jan. 8	9.50	May 16	8.50	Sept. 11	10.80
Apr. 2	8.90	July 16	10.30	Nov. 14	10.50

4-4-5aa. (MB) U.S.G.S. Jetted observation well in alluvium; diameter ¾ inch, depth 34 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 1.80 below lsd, Aug. 1, 1951; lowest 7.05 below lsd, Sept. 22, 1955. Records available: 1950-56, 1958-63.

Jan. 8	5.90	May 16	5.80	Sept. 11	5.80
Apr. 2	5.00	July 16	5.70	Nov. 14	5.90

4-4-6dc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 55 feet. Measuring point, top of pipe, 2.20 feet above lsd. Highest water level 38.50 below lsd, June 20, 1963; lowest 51.50 below lsd, Feb. 9, 1959. Records available: 1956-63.

Mar. 20	43.27	June 20	38.50	Sept. 19	39.20
Apr. 16	43.34	Aug. 22	38.80	Nov. 20	41.10
May 20	43.76				

4-4-17dc. (MB) U.S.G.S. Jetted observation well in alluvium; diameter ¾ inch, depth 21 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 2.00 below lsd, June 13, 1951; lowest 7.51 below lsd, Nov. 8, 1961. Records available: 1950-56, 1958-63.

Jan. 8	6.30	May 16	6.20	Sept. 11	6.50
Apr. 3	5.40	July 16	6.30	Nov. 14	6.10

4-4-21aa. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 45 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 7.00 below lsd, Aug. 1, 1951; lowest 19.15 below lsd, July 18, 1956. Records available: 1950-56, 1958-63.

Jan. 8	12.30	May 16	13.40	Sept. 11	15.60
Apr. 3	13.10	July 16	14.00	Nov. 14	14.60

4-4-28cc. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 21 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 1.30 below lsd, Aug. 1, 1951; lowest dry, entire year of 1953. Records available: 1950-56, 1958, 1960-63.

Jan. 8	5.40	May 16	5.70	Sept. 11	7.50
Apr. 3	6.50	July 16	6.30	Nov. 14	7.30

4-5-1dd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 63 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 13.90 below lsd, Nov. 20, 1963; lowest 27.53 below lsd, Feb. 9, 1959. Records available: 1956-63.

Mar. 20	15.26	June 20	16.00	Sept. 19	14.10
Apr. 16	15.34	Aug. 22	14.50	Nov. 20	13.90
May 20	15.67				

4-5-2cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 44 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 11.97 below lsd, May 14, 1962; lowest 25.75 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 20	13.48	June 20	14.50	Sept. 19	16.60
Apr. 16	13.20	Aug. 22	16.10	Nov. 20	15.20
May 20	13.67				

REPUBLIC COUNTY—concluded

4-5-4dd. (MB) U.S.B.R. Driven observation well; diameter 1¼ inches, depth 21 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 3.30 below lsd, Aug. 22, 1963; lowest 17.61 below lsd, Sept. 20, 1956. Records available: 1956-63.

Mar. 20	5.02	June 20	6.70	Sept. 19	4.70
Apr. 16	5.23	Aug. 22	3.30	Nov. 20	4.40
May 20	6.13				

4-5-5dd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 23 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 7.16 below lsd, Sept. 18, 1961; lowest dry, Feb. 20, 1957. Records available: 1956-63.

Mar. 20	15.14	June 20	9.70	Sept. 19	8.70
Apr. 16	15.50	Aug. 22	8.60	Nov. 20	12.10
May 20	16.03				

4-5-9cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 23 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 6.10 below lsd, Aug. 22, 1963; lowest 17.04 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 20	13.80	June 20	14.40	Sept. 19	8.10
Apr. 16	14.03	Aug. 22	6.10	Nov. 20	10.80
May 20	14.30				

4-5-11cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 23 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 11.12 below lsd, May 10, 1960; lowest 19.50 below lsd, May 8, 1957. Records available: 1956-63.

Mar. 20	12.93	June 20	13.40	Sept. 19	13.80
Apr. 16	13.10	Aug. 22	13.60	Nov. 20	13.60
May 20	13.29				

4-5-15bb. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 35 feet. Measuring point, top of pipe, 2.60 feet above lsd. Highest water level 19.83 below lsd, Feb. 13, 1960; lowest 28.88 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 20	22.95	June 20	23.10	Sept. 19	21.70
Apr. 16	23.03	Aug. 22	21.50	Nov. 20	21.60
May 20	23.10				

4-5-15cc. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 19 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 0.68 below lsd, Feb. 10, 1960; lowest 13.65 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 20	1.64	June 20	4.10	Sept. 19	5.50
Apr. 16	2.44	Aug. 22	4.80	Nov. 20	3.10
May 20	3.31				

4-5-15dd. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 32 feet. Measuring point, top

of pipe, 2.50 feet above lsd. Highest water level 16.60 below lsd, July 31, 1962; lowest 22.10 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 20	18.70	June 20	19.00	Sept. 19	19.20
Apr. 16	18.58	Aug. 22	19.00	Nov. 20	18.50
May 20	18.83				

4-5-17bb. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 23 feet. Measuring point, top of pipe, 0.90 foot above lsd. Highest water level 17.88 below lsd, July 17, 1961; lowest dry, May 8, 1957. Records available: 1956-63.

Mar. 20	19.03	June 20	19.00	Sept. 19	19.10
Apr. 16	19.00	Aug. 22	19.10	Nov. 20	19.00
May 20	19.10				

4-5-23aa. (MB) U.S.B.R. Drilled observation well; diameter 1¼ inches, depth 25 feet. Measuring point, top of pipe, 2.40 feet above lsd. Highest water level 5.03 below lsd, Sept. 18, 1961; lowest 16.20 below lsd, Mar. 21, 1957. Records available: 1956-63.

Mar. 20	7.19	June 20	8.40	Sept. 19	9.20
Apr. 16	7.13	Aug. 22	8.50	Nov. 20	8.00
May 20	7.80				

RICE COUNTY

19-10-20ad. (C) John Probst. Drilled industrial well in sand and gravel of Pleistocene age; diameter 6 inches, depth 69 feet. Measuring point, top of casing, 0.10 foot above lsd. Highest water level 4.58 below lsd, Aug. 22, 1963; lowest 13.74 below lsd, July 26, 1963. Records available: 1959-63.

Jan. 14	11.85	May 20	11.58	Sept. 27	12.60
Feb. 19	11.94	June 24	12.77	Oct. 21	11.53
Mar. 28	12.09	July 26	13.74	Nov. 21	13.09
Apr. 23	12.01	Aug. 22	4.58	Dec. 17	13.24

20-9-12dda. (C) David C. Griffin. Driven domestic well in alluvium; diameter 1½ inches, depth 32 feet. Measuring point, top of pipe, 0.60 foot above lsd. Highest water level 10.38 below lsd, June 19, 1961; lowest 13.78 below lsd, Sept. 27, 1963. Records available: 1960-63.

Jan. 14	12.47	May 20	13.08	Sept. 27	13.78
Feb. 19	12.44	June 24	12.23	Oct. 21	13.53
Mar. 28	12.53	July 26	12.94	Nov. 21	13.35
Apr. 23	12.73	Aug. 22	13.66	Dec. 17	13.39

ROOKS COUNTY

7-16-9dd. (C) Ed V. Jones. Drilled irrigation well in alluvium; diameter 16 inches, depth 66 feet. Measuring point, breather pipe on north side pump base, 1.30 feet above lsd. Highest water level 39.58 below lsd, Dec. 15, 1962; lowest 50.52 below lsd, Apr. 7, 1959. Records available: 1958-63.

Jan. 17	39.63	May 13	40.06	Sept. 17	41.62
Feb. 18	39.65	June 11	40.21	Oct. 22	41.08
Mar. 20	39.83	July 11	40.60	Nov. 22	41.18
Apr. 8	39.82	Aug. 19	40.69	Dec. 16	41.22

7-17-13cbb. (C) Roy Ballard. Drilled, water-table observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 49 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 39.35 below lsd, Nov. 21, 1961; lowest 44.78 below lsd, Dec. 16, 1963. Records available: 1960-63.

Jan. 17	41.94	May 13	43.17	Sept. 17	44.17
Feb. 18	42.27	June 11	43.36	Oct. 22	44.43
Mar. 20	42.71	July 11	43.62	Nov. 22	44.31
Apr. 8	42.79	Aug. 19	43.91	Dec. 16	44.78

7-17-13cbc. (C) Roy Ballard. Drilled, water-table observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 47 feet. Measuring point, top of pipe, 4.30 feet above lsd. Highest water level 20.66 below lsd, July 19, Aug. 16, 1962; lowest 23.52 below lsd, Dec. 16, 1963. Records available: 1960-63.

Jan. 17	21.67	May 13	22.34	Sept. 17	23.17
Feb. 18	21.79	June 11	22.51	Oct. 22	23.24
Mar. 20	22.06	July 11	22.76	Nov. 22	23.43
Apr. 8	22.06	Aug. 19	22.99	Dec. 16	23.52

7-17-23da. (C) Mr. Watts. Drilled, abandoned, stock well in alluvium; diameter 8 inches, depth 15 feet. Measuring point, top south side well casing, 0.80 foot below lsd. Highest water level 4.31 below lsd, Sept. 15, 1961; lowest 13.92 below lsd, Oct. 6, 1959. Records available: 1958-63. Measurement discontinued.

Jan. 17	9.24	Apr. 8	9.84	July 11	10.03
Feb. 18	9.50	May 13	9.88	Oct. 22	11.01
Mar. 20	9.75	June 11	9.90		

7-17-24bbb. (C) Roy Ballard. Drilled stock well in alluvium; diameter 10 inches, depth 31 feet. Measuring point, top northwest side casing, 0.80 foot above lsd. Highest water level 10.15 below lsd, June 14, 1961; lowest 15.39 below lsd, Sept. 14, 1959. Records available: 1958-63.

Jan. 17	13.42	June 11	P	Oct. 10	14.29
Feb. 18	13.39	July 11	13.83	22	14.69
Mar. 20	13.60	Aug. 19	14.10	Nov. 22	14.44
Apr. 8	15.15	Sept. 17	14.44	Dec. 16	14.54
May 13	13.68				

7-17-24bbc. (C) Roy Ballard. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 30 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 7.66 below lsd, June 14, 1961; lowest 11.44 below lsd, Oct. 10, 1960. Records available: 1960-63.

Jan. 17	10.28	May 13	10.79	Sept. 17	11.19
Feb. 18	10.56	June 11	10.93	Oct. 10	11.16
Mar. 20	10.30	July 11	10.50	Nov. 22	11.20
Apr. 8	10.50	Aug. 19	10.39	Dec. 16	11.17

7-17-24bcc. (C) Roy Ballard. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 22 feet. Measuring point, top of pipe, at land surface. Highest water level 5.09 below lsd, July 10, 1961; lowest 9.06 below lsd, Oct. 10, 1960. Records available: 1960-63.

Jan. 17	8.05	May 13	8.56	Sept. 17	8.78
Feb. 18	8.29	June 11	8.67	Oct. 22	8.77
Mar. 20	8.03	July 11	8.15	Nov. 22	8.80
Apr. 8	8.26	Aug. 19	8.32	Dec. 16	8.79

7-18-24ac. (C) Reid Baxter. Drilled domestic well in alluvium; diameter 6 inches, depth 30 feet. Measuring point, top east side casing, 0.50 foot above lsd. Highest water level 21.70 below lsd, Apr. 16, 1962; lowest 26.20 below lsd, Dec. 16, 1963. Records available: 1958-63.

Jan. 16	23.06	June 11	23.96	Oct. 10	26.01
Feb. 18	22.94	July 11	24.81	22	25.97
Mar. 20	22.84	Aug. 19	25.52	Nov. 22	25.69
Apr. 8	22.78	Sept. 17	25.95	Dec. 16	26.20
May 13	23.16				

7-18-24db. (C) Leon Hamilton. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 20 feet. Measuring point, top of pipe, 3.80 feet above lsd. Highest water level 17.43 below lsd, Aug. 11, 1960; lowest 19.20 below lsd, Dec. 16, 1963. Records available: 1960-63.

Jan. 16	18.95	June 11	18.99	Oct. 10	18.80
Feb. 18	19.02	July 11	19.07	22	18.94
Mar. 20	18.77	Aug. 19	18.78	Nov. 22	19.18
Apr. 12	18.93	Sept. 17	18.91	Dec. 16	19.20
May 13	19.02				

7-18-24dc. (C) Dale Shelton. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 24 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 8.74 below lsd, June 14, 1961; lowest 12.20 below lsd, Sept. 17, 1963. Records available: 1960-63.

Jan. 16	10.71	June 11	11.40	Oct. 10	12.00
Feb. 18	10.60	July 11	11.50	22	12.03
Mar. 20	10.60	Aug. 19	12.14	Nov. 22	11.98
Apr. 12	10.76	Sept. 17	12.20	Dec. 16	11.90
May 13	11.19				

7-18-25ac. (C) Omer Henderson. Drilled stock well in alluvium; diameter 6 inches, depth 31 feet. Measuring point, top of casing, at land surface. Highest water level 19.74 below lsd, July 19, 1962; lowest 23.01 below lsd, Sept. 14, 1959. Records available: 1958-63.

Jan. 16	21.36	June 11	22.15	Oct. 10	22.46
Feb. 18	21.66	July 11	22.95	22	22.40
Mar. 20	21.47	Aug. 19	22.12	Nov. 22	22.33
Apr. 12	21.56	Sept. 17	22.68	Dec. 16	22.17
May 13	22.00				

7-18-25ba. (C) C. E. Hughes. Drilled irrigation well in alluvium; diameter 16 inches, depth 57 feet. Measuring point, lower lip of measuring tube, 1.50 feet above

ROOKS COUNTY—concluded

lsd. Highest water level 10.27 below lsd, Apr. 11, 1958; lowest 14.25 below lsd, Aug. 19, 1963. Records available: 1958-63.

Jan. 16	12.11	June 11	P	Oct. 10	13.32
Feb. 18	12.03	July 11	P	22	13.39
Mar. 20	11.97	Aug. 19	14.25	Nov. 22	13.24
Apr. 12	P	Sept. 17	13.50	Dec. 16	12.71
May 13	12.67				

7-19-23cd. (C) Zack McEwen. Dug stock well; diameter 36 inches, depth 23 feet. Measuring point, south side of pump base, 0.30 foot above lsd. Highest water level 13.16 below lsd, June 15, 1960; lowest 17.90 below lsd, Nov. 17, 1960. Records available: 1958-63.

Jan. 16	P	June 11	P	Oct. 10	16.25
Feb. 18	P	July 11	P	22	16.48
Mar. 20	14.89	Aug. 19	16.14	Nov. 22	16.61
Apr. 12	15.06	Sept. 17	P	Dec. 16	16.23
May 13	P				

RUSH COUNTY

18-17-14bbc. (C) Lester Dirks. Drilled observation well in alluvium of Pleistocene age; diameter 1¼ inches, depth 64 feet. Measuring point, top of pipe, 3.80 feet above lsd. Highest water level 16.87 below lsd, Sept. 26, 1961; lowest 25.50 below lsd, Aug. 21, 1963. Records available: 1960-63.

Jan. 15	20.20	May 20	22.62	Sept. 23	24.10
Feb. 20	20.23	June 25	22.59	Oct. 22	24.07
Mar. 29	20.42	July 25	24.20	Nov. 22	23.90
Apr. 22	21.42	Aug. 21	25.50	Dec. 16	23.86

18-17-14bcc. (C) Lester Dirks. Drilled irrigation well in alluvium of Pleistocene age; depth 71 feet. Measuring point, hole in north side pump base, 0.42 foot above lsd. Highest water level 17.71 below lsd, Jan. 17, 1962; lowest 25.94 below lsd, Sept. 7, 1960. Records available: 1960-63. Jan. 15, 19.57; Apr. 22, 19.80.

18-17-14ccc. (C) Jerry F. Oborny. Drilled observation well in alluvium of Pleistocene age; diameter 1¼ inches, depth 64 feet. Measuring point, top of pipe, 3.86 feet above lsd. Highest water level 15.75 below lsd, June 20, 1960; lowest 22.44 below lsd, Aug. 21, 1963. Records available: 1960-63.

Jan. 15	18.24	May 20	20.91	Sept. 23	22.22
Feb. 20	18.13	June 25	20.58	Oct. 22	21.93
Mar. 29	18.31	July 25	22.08	Nov. 22	21.70
Apr. 22	19.57	Aug. 21	22.44	Dec. 16	21.56

18-17-14cdc. (C) J. F. Oborny. Drilled irrigation well in alluvium of Pleistocene age; depth 70 feet. Measuring point, hole in southeast side pump base, 0.70 foot above lsd. Highest water level 15.78 below lsd, June 27, 1960; lowest 35.22 below lsd, Aug. 31, 1956 (published previously as 22.80 below lsd, Sept. 13, 1960). Records available: 1946-50, 1955-63.

1946		1956			
May 29	23.55	Jan. 6	28.63	Apr. 17	28.97
1947		Apr. 6	28.13	May 6	28.63
May 21	21.55	May 23	29.47	June 13	27.97
Sept. 14	19.30	July 2	30.13	July 13	26.88
1948		Aug. 31	35.22	Aug. 23	23.80
Jan. 7	24.38	Dec. 4	33.13	Oct. 16	23.80
June 3	24.30	1957		1959	
Oct. 5	24.05	Jan. 2	32.63	Jan. 3	23.80
1949		Feb. 14	32.22	Apr. 14	23.30
May 13	22.80	Mar. 8	31.80	May 2	23.38
Sept. 15	25.80	May 21	30.88	July 26	24.80
1950		June 14	30.88	Sept. 3	31.72
June 12	24.13	July 3	30.30	18	30.30
Oct. 5	18.97	24	32.47	Oct. 23	17.13
1955		Nov. 22	30.97	1963	
Mar. 30	26.30	1958		Jan. 15	18.13
Apr. 22	25.80	Feb. 22	29.80	Apr. 22	19.19
Aug. 11	30.13	Mar. 24	29.63		

18-17-15daa. (C) Louis E. Oborny. Drilled observation well in alluvium of Pleistocene age; diameter 1¼ inches, depth 60 feet. Measuring point, top of pipe, 3.35 feet above lsd. Highest water level 16.66 below lsd, June 20, 1960; lowest 26.25 below lsd, Aug. 22, 1960. Records available: 1960-63.

Jan. 15	19.61	May 20	22.67	Sept. 23	23.76
Feb. 20	19.63	June 25	22.23	Oct. 22	23.53
Mar. 29	19.73	July 25	24.33	Nov. 22	23.30
Apr. 22	21.54	Aug. 21	25.32	Dec. 16	23.15

18-17-22aad. (C) W. Smercka. Drilled observation well in alluvium of Pleistocene age; diameter 1¼ inches, depth 51 feet. Measuring point, top of pipe, 3.10 feet above lsd. Highest water level 16.31 below lsd, June 20, 1960; lowest 22.95 below lsd, Sept. 23, 1963. Records available: 1960-63.

Jan. 15	19.04	May 20	21.47	Sept. 23	22.95
Feb. 20	18.93	June 25	21.31	Oct. 22	22.75
Mar. 29	19.24	July 25	22.13	Nov. 22	22.56
Apr. 22	20.20	Aug. 21	22.94	Dec. 16	22.37

18-17-22dad. (C) Mrs. Holopirek. Drilled observation well in alluvium of Pleistocene age; diameter 1¼ inches, depth 57 feet. Measuring point, top of pipe, 3.60 feet above lsd. Highest water level 22.43 below lsd, June 20, 1960; lowest 28.66 below lsd, Sept. 23, 1963. Records available: 1960-63.

Jan. 15	23.54	May 20	26.22	Sept. 23	28.66
Feb. 20	23.43	June 25	26.29	Oct. 22	27.90
Mar. 29	23.78	July 25	27.23	Nov. 22	27.51
Apr. 22	24.93	Aug. 21	28.10	Dec. 16	27.28

18-17-23bcc. (C) Mrs. Fiala. Drilled observation well in alluvium of Pleistocene age; diameter 1¼ inches, depth 56 feet. Measuring point, top of pipe, 3.55 feet above lsd. Highest water level 16.15 below lsd, June 20, 1960; lowest 22.73 below lsd, Aug. 21, 1963. Records available: 1960-63.

Jan. 15	17.96	May 20	20.20	Sept. 23	22.51
Feb. 20	18.01	June 25	20.38	Oct. 22	21.69
Mar. 29	18.08	July 25	20.81	Nov. 22	21.73
Apr. 22	18.97	Aug. 21	22.73	Dec. 16	21.77

18-18-27bc. (C) Lee Dелlette. Drilled domestic well in alluvium of Pleistocene age; diameter 5 inches, depth 61 feet. Measuring point, blue mark on northeast side of casing, 0.70 foot above lsd. Highest water level 20.91 below lsd, July 17, 1962; lowest 26.38 below lsd, Aug. 21, 1963. Records available: 1962-63.

Jan. 15	22.13	May 20	23.52	Sept. 23	24.49
Feb. 20	22.07	June 25	24.22	Oct. 22	24.15
Mar. 29	22.14	July 25	24.00	Nov. 22	23.95
Apr. 22	22.74	Aug. 21	26.38	Dec. 16	23.75

18-20-14ccc. (C) John Georg. Augered observation well in alluvium of Pleistocene age; diameter 1 1/4 inches, depth 48 feet. Measuring point, top of pipe, 3.70 feet above lsd. Highest water level 19.97 below lsd, Nov. 7, 1960; lowest 23.32 below lsd, Aug. 21, 1963. Records available: 1960-63.

Jan. 15	21.07	May 20	21.54	Oct. 22	22.37
Feb. 20	21.05	June 25	20.94	Nov. 22	22.25
Mar. 29	21.10	July 25	21.93	Dec. 16	22.26
Apr. 22	21.39	Aug. 21	23.32		

18-20-23cd. (C) Owner unknown. Unused water-table well in terrace deposits of Pleistocene age; diameter 5 inches, depth 49 feet. Measuring point, top north side of casing, 0.50 foot above lsd. Highest water level 31.55 below lsd, Apr. 18, 1960; lowest 36.81 below lsd, July 25, 1963. Records available: 1954-63.

Jan. 15	34.05	June 25	P	Oct. 22	P
Feb. 20	34.07	July 25	36.81	Nov. 22	34.68
Mar. 29	34.10	Aug. 21	36.53	Dec. 16	34.17
May 20	36.58	Sept. 23	P		

RUSSELL COUNTY

80. (C) Joseph Furthmyer, Jr. SE SE sec. 9, T 14 S, R 15 W. Dug, unused, water-table well in deposits of Pleistocene age; diameter 5 feet, depth 15 feet, cribbed with rock. Measuring point, top east edge of rock casing, 0.80 foot above lsd. Highest water level 3.40 below lsd, Apr. 14, 1942; lowest 7.76 below lsd, June 29, 1943. Records available: 1941-63. Mar. 19, 7.60; June 5, 5.55; Sept. 17, 5.30; Dec. 10, 5.82.

81. (C) Joseph Furthmyer, Jr. SE SE sec. 9, T 14 S, R 15 W. Drilled, water-table stock well in Dakota Formation; diameter 6 inches, depth 224 feet. Measuring point, top west edge of casing, 0.30 foot above lsd. Highest water level 101.85 below lsd, Aug. 29, 1941; lowest 134.71 below lsd, July 10, 1947. Records available: 1941-63. Mar. 19, 120.07; June 5, 119.49; Sept. 17, 120.00; Dec. 10, 118.47.

117. (C) Marie Dutt and others. SE NE sec. 18, T 13 S, R 14 W. Dug, unused, water-table well in alluvium; diameter 26 to 32 inches, depth 14 feet, cribbed with rock. Measuring point, top north edge of rock casing, 0.30 foot above lsd. Highest water level 4.43 below lsd, Apr. 15, 1958; lowest 10.61 below lsd, Dec. 20,

1943. Records available: 1941-63. Mar. 19, 5.22; June 5, 7.36; Sept. 17, 10.38.

146. (C) D. P. Steinle. NW NE sec. 24, T 14 S, R 12 W. Dug, unused, water-table well in terrace deposits of Pleistocene age; diameter 28 inches, depth 17 feet, cribbed with rock. Measuring point, top north edge of rock casing, 0.60 foot above lsd. Highest water level 11.15 below lsd, Dec. 3, 1962; lowest 16.20 below lsd, Sept. 1, 1942. Records available: 1941-63. Mar. 19, 11.32; June 5, 11.56; Sept. 17, 11.95; Dec. 10, 12.20.

148. (C) John Penix. NE SE sec. 13, T 14 S, R 13 W. Dug, water-table domestic and stock well in terrace deposits of Pleistocene age; diameter 28 to 36 inches, depth 12 feet, cribbed with rock. Measuring point, top south edge of rock casing, 0.50 foot above lsd. Highest water level 3.04 below lsd, Apr. 14, 1960; lowest 8.45 below lsd, Dec. 10, 1963. Records available: 1941-63. Mar. 19, 6.60; June 5, 7.12; Sept. 17, 7.66; Dec. 10, 8.45.

149. (C) George Boxberger, Jr. NE NE sec. 22, T 14 S, R 14 W. Dug, unused, water-table well in Upper Cretaceous Greenhorn Limestone; diameter 32 to 36 inches, depth 23 feet, cribbed with rock. Measuring point, top west edge of rock casing, 1.30 feet above lsd. Highest water level 15.83 below lsd, Aug. 3, 1960; lowest 21.54 below lsd, June 29, 1943. Records available: 1941-63. Mar. 19, 17.66; June 5, 18.02; Sept. 17, 18.27; Dec. 10, 18.67.

SALINE COUNTY

14-2-30cd. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter 3/4 inch, depth 28 feet. Measuring point, top of pipe, 2.30 feet above lsd. Highest water level 1.13 below lsd, Oct. 1, 1951; lowest 17.77 below lsd, Aug. 19, 1955. Records available: 1951-53, 1955-63.

Mar. 18	13.22	June 4	12.83	Sept. 16	13.35
Apr. 29	14.00	July 23	12.45	Dec. 11	12.80

15-2-17cd. (MB) U.S.G.S. Drilled and driven, water-table observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 28 feet. Measuring point, top of pipe, 3.20 feet above lsd. Highest water level 9.58 below lsd, Oct. 1, 1951; lowest 27.40 below lsd, May 11, 1956. Records available: 1946-63.

Mar. 18	22.32	June 4	24.02	Sept. 16	22.83
Apr. 29	23.68	July 23	21.60	Dec. 11	23.90

15-2-18cd. (MB) U.S.G.S. Drilled and driven, water-table observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 44 feet. Measuring point, top of pipe, 1.40 feet above lsd. Highest water level 11.50 below lsd, Sept. 18, 1951; lowest 28.65 below lsd, Sept. 7, 1956. Records available: 1946-63.

Mar. 18	25.12	June 4	24.77	Sept. 16	23.96
Apr. 29	24.37	July 23	24.33	Dec. 11	24.75

15-2-30dc. (MB) U.S.G.S. Drilled and driven, water-table observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 35 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 6.56 below lsd, July 24, 1951; lowest 24.59 below lsd, Mar. 18, 1957. Records available 1946-53, 1955-63.

SALINE COUNTY—concluded

Mar. 18	21.33	June 4	21.87	Sept. 16	20.80
Apr. 29	21.34	July 23	20.17	Dec. 11	21.80

15-2-31ccc. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 25 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 7.92 below lsd, Nov. 9, 1951; lowest 20.30 below lsd, June 10, 1957. Records available: 1950-53, 1955-63.

Mar. 18	16.58	June 4	17.13	Sept. 16	16.63
Apr. 29	16.76	July 23	17.45	Dec. 11	17.53

15-3-12ab. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 30 feet. Measuring point, top of pipe, 1.40 feet above lsd. Highest water level 6.31 below lsd, Oct. 1, 1951; lowest 24.97 below lsd, May 8, 1957. Records available: 1951-53, 1955-63.

Mar. 18	20.35	June 4	21.28	Sept. 16	21.25
Apr. 29	20.90	July 23	20.94	Dec. 11	21.38

15-3-12dd. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 30 feet. Measuring point, top of pipe, 4.00 feet above lsd. Highest water level 10.02 below lsd, Nov. 9, 1951; lowest 25.17 below lsd, Dec. 11, 1963. Records available: 1951-53, 1955-63.

Mar. 18	23.40	June 4	24.08	Sept. 16	23.62
Apr. 29	23.80	July 23	23.35	Dec. 11	25.17

15-3-24dd. (MB) U.S.G.S. Drilled and driven, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 34 feet. Measuring point, top of pipe, 1.20 feet above lsd. Highest water level 4.30 below lsd, July 24, 1951; lowest 24.60 below lsd, July 9, 1962. Records available: 1946-53, 1955-63.

Mar. 18	24.04	June 4	24.58	Sept. 16	23.88
Apr. 29	24.28	July 23	23.54	Dec. 11	24.50

15-3-36ab. (MB) U.S.G.S. Drilled and driven, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 46 feet. Measuring point, top of pipe, 1.10 feet above lsd. Highest water level 17.57 below lsd, Nov. 9, 1951; lowest 32.25 below lsd, Aug. 19, 1957. Records available: 1946-53, 1955-63.

Mar. 18	26.52	June 4	27.03	Sept. 16	27.25
Apr. 29	26.90	July 23	26.54	Dec. 11	27.60

16-2-8ccc. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 27 feet. Measuring point, top of pipe, 4.20 feet above lsd. Highest water level 7.94 below lsd, Oct. 20, 1950; lowest 25.44 below lsd, May 8, 1957. Records available: 1950-53, 1955-63.

Mar. 18	23.57	June 4	23.64	Sept. 16	23.60
Apr. 29	23.65	July 23	23.63	Dec. 11	23.64

16-2-18bbb. (MB) U.S.G.S. Drilled, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 40 feet. Measuring point, top of pipe, 2.70 feet above lsd. Highest water level 21.20 below lsd, Aug. 17, 1962; lowest 23.17 below lsd, Mar. 18, 1963. Records available: 1962-63.

Mar. 18	23.17	June 4	22.58	Sept. 16	22.44
Apr. 29	22.42	July 23	22.60	Dec. 11	22.50

16-2-18cc. (MB) U.S.G.S. Drilled and driven, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 35 feet. Measuring point, top of pipe, 0.90 foot above lsd. Highest water level 11.76 below lsd, Aug. 17, 1951; lowest 27.39 below lsd, Mar. 18, 1957. Records available: 1946-53, 1955-63.

Mar. 18	21.73	June 4	21.10	Sept. 16	20.40
Apr. 29	22.80	July 23	20.94	Dec. 11	22.43

16-3-12abb. (MB) U.S.G.S. Drilled, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 44 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 19.30 below lsd, Nov. 27, 1962; lowest 21.04 below lsd, July 23, 1963. Records available: 1962-63.

Mar. 18	19.78	June 4	20.45	Sept. 16	20.82
Apr. 29	20.28	July 23	21.04	Dec. 11	20.95

16-3-12bcc. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter $\frac{3}{4}$ inch, depth 28 feet. Measuring point, top of pipe, 2.40 feet above lsd. Highest water level 5.57 below lsd, Mar. 28, 1960; lowest 23.10 below lsd, Nov. 21, 1950. Records available: 1950-53, 1955-63.

Mar. 18	12.14	June 4	13.06	Sept. 16	12.40
Apr. 29	12.75	July 23	12.18	Dec. 11	14.39

16-3-13cd. (MB) U.S.G.S. Drilled and driven, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 45 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 11.64 below lsd, Oct. 1, 1951; lowest 26.25 below lsd, Sept. 7, 1956. Records available: 1946-53, 1955-63.

Mar. 18	21.50	June 4	21.74	Sept. 16	21.43
Apr. 29	21.90	July 23	21.44	Dec. 11	22.08

16-3-26dcd. (MB) U.S.G.S. Drilled and driven, water-table observation well in terrace deposits of Pleistocene age; diameter $1\frac{1}{4}$ inches, depth 26 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 4.96 below lsd, July 24, 1951; lowest 23.61 below lsd, Sept. 7, 1956. Records available: 1946-63.

Mar. 18	19.79	June 4	20.37	Sept. 16	20.93
Apr. 29	20.08	July 23	20.98	Dec. 11	21.14

16-3-33ddd. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter 3/4 inch, depth 40 feet. Measuring point, top of pipe, 3.50 feet above lsd. Highest water level 8.77 below lsd, Oct. 1, 1951; lowest 21.28 below lsd, Sept. 7, 1956. Records available: 1951-53, 1955-63.

Mar. 18	15.50	June 4	16.35	Sept. 16	17.60
Apr. 29	14.85	July 23	17.14	Dec. 10	17.75

SCOTT COUNTY

1. (C) Mrs. Rosine Smith. NW cor. sec. 9, T 20 S, R 33 W. Drilled, unused, water-table well in Ogallala Formation; diameter 24 inches, depth 128 feet. Measuring point, top of concrete edge of pump base, 0.10 foot above lsd. Highest water level 55.89 below lsd, May 14, 1934; lowest dry, Mar. 22, Nov. 19, Dec. 17, 1956. Records available: 1931-63.

Water Levels from Recorder Graph

Month	5	10	15	20	25	30
Jan.	85.31	84.94	84.40	84.00	83.71	83.49
Feb.	83.30	83.13	83.01	82.90	82.80	.....
Mar.	.....	.....	.....	82.46	82.42	82.40
Apr.	82.32	82.31	82.27	83.13	83.85	84.35
May	84.72	85.03	85.22	85.33	85.49	85.04
June	84.41	84.12	83.88	83.70	83.57	83.45
July	83.74	84.50	84.95	85.24	85.53	85.74
Aug.	85.91	86.03	86.16	86.28	86.35	86.44
Sept.	86.52	86.44	86.40	86.36	86.84	86.18
Oct.	85.52	85.03	84.83	84.63	84.51	84.37
Nov.	85.14	85.68	86.02	86.27	86.38	85.83
Dec.	86.30	86.06	85.60	85.26	85.00	84.82

2A. (C) State of Kansas. SE sec. 26, T 18 S, R 33 W. Drilled, water-table observation well in deposits of Pleistocene age; diameter 8 inches, depth 55 feet. Measuring point, top south side of casing, 0.30 foot above lsd. Highest water level 19.85 below lsd, May 8, 1952; lowest 48.69 below lsd, Sept. 15, 1963. Records available: 1944-63.

Water Levels from Recorder Graph

Month	5	10	15	20	25	30
Jan.	43.78	43.70	43.70	43.66	43.63	43.61
Feb.	43.56	43.50	43.50	43.48	43.48	.....
Mar.	43.85	43.46	.....	43.37	43.42	43.95
Apr.	44.27	44.61	44.75	44.92	45.10	.....
May	.....	.....	.....	.....	.....	.....
June	45.94	45.90	45.77	45.66	45.57	45.49
July	45.42	46.00	46.28	46.56	46.82	47.07
Aug.	47.32	47.53	47.73	47.91	48.11	48.30
Sept.	48.48	48.59	48.69	48.64	48.29	48.18
Oct.	47.92	47.79	47.68	47.58	47.50	47.41
Nov.	47.36	47.33	47.29	47.25	47.26	47.24
Dec.	47.19	47.17	47.17	47.14	47.08	47.13

19. (C) Mr. Fouquet. SE NE sec. 12, T 18 S, R 33 W. Drilled, water-table irrigation well in Ogallala Formation; diameter 12 inches, depth 87 feet. Measuring point, top of hole in pump base, 1.00 foot above lsd. Highest water level 43.38 below lsd, May 26, 1952; lowest 79.26 below lsd, Aug. 6, 1963. Records available: 1939-63.

Jan. 7	62.94	July 10	75.99Pc*
Feb. 4	62.78	Aug. 6	79.26Pc†
Mar. 19	62.45	Sept. 4	75.19
Apr. 10	72.99	Oct. 8	73.49
May 13	77.65Pc*	Nov. 21	66.58
June 19	78.02	Dec. 6	71.25

* Wells pumping 200 feet SE.

† Wells pumping 300 feet SE and 1/4 mi. NE.

50. (C) F. M. Houstin. SW SW SE sec. 28, T 19 S, R 32 W. Drilled, unused, water-table well in Ogallala Formation; diameter 5 inches, depth 126 feet. Measuring point, top of concrete platform, 1.50 feet above lsd. Highest water level 83.02 below lsd, Jan. 23, 1959; lowest 97.95 below lsd, Aug. 6, 1943. Records available: 1939-63.

Jan. 7	85.50	May 13	85.84	Sept. 4	86.05
Feb. 4	85.59	June 5	85.70	Oct. 8	86.11
Mar. 19	85.73	July 10	85.80	Nov. 21	86.03
Apr. 10	85.68	Aug. 6	86.00	Dec. 6	86.12

207. (C) Samuel Bontrager. NW SW sec. 29, T 19 S, R 33 W. Irrigation well in Ogallala Formation; diameter 24 inches, depth 109 feet. Measuring point, top of pump frame, 1.70 feet above lsd. Records for 1929, 1936, 1939-42 published as well no. 6. Highest water level 69.84 below lsd, Apr. 13, 1936 (highest water level erroneously published previously as 78.01 below lsd, Sept. 6, 1940); lowest dry, Sept. 4, 1963. Records available: 1929, 1936, 1939-42, 1958-63.

Jan. 7	96.95	July 10	99.78
Feb. 4	95.95	Aug. 6	108.66Pc*
Mar. 19	95.04	Sept. 4	dry Pc
Apr. 10	104.40	Oct. 8	101.66
May 13	106.18	Nov. 21	99.25
June 5	102.75	Dec. 6	103.25Pc*

* Well pumping 30 feet SE.

256. (C) James E. Ely. NE NW sec. 13, T 20 S, R 33 W. Irrigation well in Ogallala Formation; diameter 16 inches, depth 125 feet. Measuring point, hole in east side pump base, 1.90 feet above lsd. Highest water level 33.33 below lsd, June 15, 1944; lowest 58.90 below lsd, Oct. 8, 1963. Records available: 1944, 1958-63.

Jan. 7	54.40	May 13	P	Sept. 4	P
Feb. 4	52.89	June 5	56.80	Oct. 8	58.90
Mar. 19	52.67	July 10	P	Nov. 21	P
Apr. 10	P	Aug. 6	P	Dec. 6	P

16-33-19cb. (C) Roy Fairleigh. Drilled irrigation well in Ogallala Formation; diameter 18 inches, depth 189 feet. Measuring point, hole in north pump base, 0.75 foot above lsd. Highest water level 129.78 below lsd, Dec. 12, 1960; lowest 143.63 below lsd, Feb. 4, 1963. Records available: 1959-63. Feb. 4, 143.63; May 13, P; Aug. 6, P; Dec. 6, P.

SEDGWICK COUNTY

12. (C) Dr. A. D. Updegraph. NW SE sec. 26, T 25 S, R 1 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 24 inches, depth 54 feet. Measuring point, steel plate on instrument shelf, 2.99 feet above lsd. Highest water level 10.05 below lsd,

SEDGWICK COUNTY—continued

July 25, 1951; lowest 20.50 below lsd, Jan. 31, 1957. Records available: 1937-63.

Jan. 25	15.93	May 24	16.69	Sept. 25	15.95
Feb. 25	16.20	June 26	16.83	Oct. 25	16.89
Mar. 25	16.28	July 25	17.58	Nov. 26	17.14
Apr. 29	16.50	Aug. 23	16.86	Dec. 26	17.31

26. (C) Wichita Water Co. SW SW sec. 18, T 27 S, R 1 E. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 26 inches, depth 47 feet. Measuring point, steel plate on instrument shelf, 3.01 feet above lsd. Highest water level 4.24 below lsd, July 2, 1951; lowest 28.59 below lsd, Sept. 8, 1954. Records available: 1937-63.

Jan. 11	13.47	May 10	14.02	Sept. 13	13.46
25	13.48	17	14.17	20	13.46
31	13.53	June 7	13.56	27	13.71
Feb. 8	13.37	14	13.61	Oct. 11	14.03
Mar. 1	13.43	21	13.58	18	13.82
8	13.35	28	13.32	25	13.25
15	13.31	July 5	14.97	Nov. 1	13.63
22	13.41	12	14.61	8	13.76
29	13.48	Aug. 2	14.03	15	13.93
Apr. 5	13.52	9	14.36	22	13.92
12	13.61	17	14.60	29	13.96
19	13.72	23	14.40	Dec. 6	13.86
26	13.81	30	14.39	27	14.05
May 3	13.78	Sept. 6	13.71		

114. (C) City of Wichita. NE cor. sec. 7, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 32 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 3.35 below lsd, Oct. 2, 1958; lowest 9.66 below lsd, Mar. 1, 1957. Records available: 1954-63. Mar. 29, 6.30; July 1, 7.64; Oct. 2, 7.91.

115. (C) City of Wichita. NW cor. sec. 22, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 32 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 3.22 below lsd, July 1, 1957; lowest 8.83 below lsd, Nov. 1, 1956. Records available: 1954-63. Mar. 29, 5.35; July 1, 6.49; Oct. 2, 7.20.

117. (C) City of Wichita. SW cor. sec. 20, T 25 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 39 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 9.87 below lsd, Nov. 30, 1961; lowest 14.79 below lsd, Apr. 1, 1957. Records available: 1954-63. Mar. 29, 11.77; July 1, 12.20; Oct. 2, 12.75.

124. (C) City of Wichita. SE SE sec. 5, T 25 S, R 1 W. Drilled observation well in sand and gravel of Pleistocene age; depth 70 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 11.70 below lsd, June 1, 1962; lowest 20.73 below lsd, Mar. 1, 1957. Records available: 1955-63. Mar. 29, 17.03; July 1, 17.66; Oct. 2, 17.90.

125. (C) City of Wichita. SW cor. sec. 10, T 25 S, R 1 W. Drilled observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 69 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 5.85 below lsd, May 31, 1962; lowest 15.69 below lsd, Apr. 1, 1959. Records available: 1956-63. Mar. 29, 12.09; July 1, 12.69; Oct. 2, 12.70.

126. (C) City of Wichita. NW cor. sec. 22, T 25 S, R 1 W. Drilled observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 40 feet. Measuring point, top of pipe, at land surface. Highest water level 8.78 below lsd, Aug. 1, 1958; lowest 15.84 below lsd, Jan. 31, 1957. Records available: 1955-63. Mar. 29, 12.59; July 1, 13.23; Oct. 2, 13.40.

307. (C) J. R. Clark. NW NW SW sec. 1, T 25 S, R 2 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 6 inches, depth 92 feet. Measuring point, top of pipe, 2.80 feet above lsd. Highest water level 9.08 below lsd, May 12, 13, 20, 1945; lowest 34.45 below lsd, May 1, 1957. Records available: 1937-54, 1956-63. Mar. 29, 19.07; July 1, 20.24; Oct. 2, 20.54.

804r. (C) City of Wichita. SE cor. sec. 16, T 26 S, R 1 W., 16 feet west of original 804. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 25 feet. Measuring point, top of pipe, 0.33 foot above lsd. Highest water level 3.41 below lsd, Oct. 31, 1962; lowest 5.09 below lsd, Aug. 22, 1963. Records available: 1962-63.

Jan. 14	3.62	May 21	4.48	Sept. 27	4.52
Feb. 19	3.77	June 24	4.35	Oct. 21	4.69
Mar. 28	3.61	July 26	4.47	Nov. 21	4.75
Apr. 23	4.14	Aug. 22	5.09	Dec. 17	4.83

805. (C) City of Wichita. NW NE sec. 19, T 26 S, R 1 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 41 feet. Measuring point, top of pipe, 3.30 feet above lsd. Highest water level 1.57 below lsd, May 2, 1945; lowest 8.66 below lsd, Jan. 3, 1956. Records available: 1938-63.

Jan. 14	3.87	May 21	4.90	Sept. 27	5.03
Feb. 19	4.09	June 24	4.81	Oct. 21	4.95
Mar. 28	3.97	July 26	5.38	Nov. 21	4.95
Apr. 23	4.59	Aug. 22	5.77	Dec. 17	5.26

807. (C) City of Wichita. NW NW sec. 10, T 26 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 37 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 17.97 below lsd, July 1, 1957; lowest 25.57 below lsd, Oct. 1, 1956. Records available: 1938-63.

Jan. 14	22.10	May 21	22.74	Sept. 27	23.48
Feb. 19	22.22	June 24	22.89	Oct. 21	23.83
Mar. 28	22.30	July 26	23.15	Nov. 21	23.79
Apr. 23	22.48	Aug. 22	23.60	Dec. 17	23.83

808. (C) City of Wichita. SW NW sec. 18, T 26 S, R 3 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 49 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 18.59 below lsd, Nov. 30, 1951; lowest 24.32 below lsd, Oct. 20, 1960. Records available: 1938-53, 1958-63.

Jan. 14	21.53	May 21	22.10	Sept. 27	22.50
Feb. 19	21.38	June 24	22.39	Oct. 21	22.83
Mar. 28	21.19	July 26	22.45	Nov. 21	22.90
Apr. 23	21.43	Aug. 22	22.73	Dec. 17	22.96

809. (C) City of Wichita. NW cor. sec. 21, T 26 S, R 1 E. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 32 feet. Measuring point, top of pipe, 3.60 feet above lsd. Highest water level 5.91 below lsd, July 11, 1951; lowest 17.68 below lsd, Jan. 31, 1957. Records available: 1938-63. Mar. 29, 12.52; Oct. 2, 13.59.

810. (C) City of Wichita. NE cor. SE sec. 35, T 25 S, R 1 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 25 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 1.94 below lsd, Apr. 28, 1944; lowest 14.82 below lsd, Oct. 1, Nov. 1, 1956. Records available: 1938-63. Mar. 29, 13.76; July 1, 14.18; Oct. 2, 13.98.

812. (C) City of Wichita. NW cor. sec. 27, T 25 S, R 1 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 25 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 6.30 below lsd, Aug. 31, 1949; lowest 18.91 below lsd, Feb. 10, 1947. Records available: 1938-63. Mar. 29, 12.70; July 1, 13.17; Oct. 2, 13.48.

814. (C) City of Wichita. SE cor. sec. 14, T 25 S, R 1 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 31 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 2.29 below lsd, June 25, 1962; lowest 19.00 below lsd, Apr. 1, 1957. Records available: 1938-63. Mar. 29, 11.92; July 1, 13.00; Oct. 2, 13.68.

815. (C) City of Wichita. NE cor. sec. 17, T 25 S, R 1 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 31 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 7.65 below lsd, May 11, 1945; lowest 19.69 below lsd, Apr. 1, 1957. Records available: 1938-63. Mar. 29, 15.88; July 1, 16.79; Oct. 2, 17.24.

816. (C) City of Wichita. SW cor. sec. 7, T 25 S, R 1 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 31 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 5.32 below lsd, Oct. 8, 1945; lowest 25.32 below lsd, May 1, 1957. Records available: 1938-63. Mar. 29, 17.51; July 1, 18.56; Oct. 2, 19.31.

825. (C) City of Wichita. NE cor. sec. 3, T 25 S, R 1 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 25 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 5.49 below lsd, May 4, 1945; lowest 15.18 below lsd, Dec. 5, 1947. Records available: 1938-63. Mar. 29, 7.87; July 1, 8.57; Oct. 2, 9.08.

826. (C) City of Wichita. NE cor. sec. 5, T 25 S, R 1 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 18 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 2.12 below lsd, May 9, 1944; lowest 16.80 below lsd, Nov. 1, 1956. Records available: 1939-49, 1955-63. Mar. 29, 11.37; July 1, 12.23; Oct. 2, 12.35.

830r. (C) City of Wichita. SW cor. sec. 30, T 25 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 57 feet. Measuring point, top of pipe, 0.60 foot above lsd. Highest water level 20.60 below lsd, Nov. 22, 1960; lowest 27.64 below lsd, Oct. 21, 1963. Records available: 1960-63.

834. (C) City of Wichita. SW cor. sec. 9, T 25 S, R 3 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 18 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 5.35 below lsd, Sept. 8, 1951; lowest 13.04 below lsd, Oct. 1, 1956. Records available: 1938-63. Mar. 29, 9.04; Oct. 2, 10.08; Dec. 31, 10.30.

838. (C) City of Wichita. NE NW sec. 33, T 25 S, R 3 W. Driven, water-table observation well in sand; diameter 1¼ inches, depth 49 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 16.69 below lsd, Jan. 1, 1961; lowest dry entire year of 1955. Records available: 1938-53, 1955, 1958-63. Mar. 29, 23.09; Oct. 2, 25.13; Dec. 31, 25.61.

840a. (C) City of Wichita. SW SW sec. 3, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; depth 26 feet. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 7.90 below lsd, Aug. 4, 1952; lowest 15.53 below lsd Apr. 1, 1955. Records available: 1952-63. Mar. 29, 11.29; July 1, 12.12; Oct. 2, 12.66; Dec. 31, 13.47.

842. (C) City of Wichita. NW cor. sec. 16, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 15 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 1.39 below lsd, Oct. 4, 1945; lowest 10.48 below lsd, Mar. 1, 1957. Records available: 1939-63. Mar. 29, 6.65; July 1, 7.50; Oct. 2, 8.42; Dec. 31, 8.73.

847. (C) City of Wichita. SW cor. SE sec. 6, T 27 S, R 1 E. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 25 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 10.55 below lsd, May 8, 1944; lowest 22.10 below lsd, June 27, 1962. Records available: 1939-63. Mar. 29, 16.62; Oct. 2, 16.98; Dec. 31, 17.03.

870. (C) W. Williams. NW NE NE sec. 18, T 25 S, R 2 W. Driven, water-table stock well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 19 feet. Measuring point, top of pipe, top of pump base, 2.50 feet above lsd. Highest water level 0.33 below lsd, July 10, 1951; lowest 9.52 below lsd, Dec. 1, 1954. Records available: 1939-63. Mar. 29, 7.33; July 1, 8.19; Oct. 2, 9.00; Dec. 31, 9.08.

1171. (C) City of Wichita. NE cor. sec. 4, T 25 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 30 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 9.78 below lsd, Oct. 2, 1951; lowest 22.67 below lsd, Apr. 2, 1957. Records available: 1950-63. Mar. 29, 17.67; July 1, 18.61; Oct. 2, 19.05; Dec. 31, 19.65.

1176. (C) City of Wichita. SW cor. sec. 5, T 25 S, R 1 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 33 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 10.42 below lsd, Oct. 3, 1951; lowest 24.73 below lsd, May 1, 1957. Records available: 1950-63. Mar. 29, 15.70; July 1, 16.60; Oct. 2, 17.00; Dec. 31, 17.75.

3004. (C) City of Wichita. SE cor. sec. 1, T 25 S, R 3 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 20 feet. Measuring point, top of pipe, 0.90 foot above lsd. Highest water level 4.42 below lsd, July 9, 1951; lowest 11.90 below lsd, Mar. 1, 1957. Records available: 1949-63. Mar. 29, 8.57; July 1, 9.52; Oct. 2, 10.00; Dec. 31, 10.38.

3030. (C) City of Wichita. SW NW SW sec. 11, T 25 S, R 2 W. Driven, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches,

Jan. 14	25.56	May 21	26.79	Sept. 27	27.29
Feb. 19	25.61	June 24	26.56	Oct. 21	27.64
Mar. 28	25.66	July 26	27.24	Nov. 21	27.55
Apr. 23	26.27	Aug. 22	27.11	Dec. 17	27.53

SEDGWICK COUNTY—continued

depth 32 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 4.24 below lsd, July 10, 1951; lowest 16.98 below lsd, May 1, 1957. Records available: 1950-63. Mar. 29, 9.54; July 1, 10.39; Oct. 2, 11.05; Dec. 31, 11.84.

3041. (C) City of Wichita. SE cor. sec. 3, T 25 S, R 3 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 17 feet. Measuring point at land surface. Highest water level 8.99 below lsd, July 31, 1961; lowest 13.63 below lsd, Oct. 1, Nov. 1, 1956. Records available: 1953-63. Mar. 29, 10.51; July 1, 11.19; Oct. 2, 11.39; Dec. 31, 11.41.

3044. (C) City of Wichita. SW cor. sec. 14, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 24 feet. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 3.64 below lsd, July 31, 1961; lowest 10.07 below lsd, Mar. 1, 1957. Records available: 1953-63. Mar. 29, 5.75; July 1, 6.82; Oct. 2, 7.65; Dec. 31, 7.93.

3045. (C) Frisco Railroad. SW NW NW sec. 13, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 6 inches, depth 65 feet. Measuring point, steel plate on instrument shelf, 3.05 feet above lsd. Highest water level 11.73 below lsd, Aug. 25, 30, 1961; lowest 21.76 below lsd, Feb. 25, 1958. Records available: 1954-63.

Water Levels from Recorder Graph

Month	5	10	15	20	25	30
Jan.	12.55	12.60	12.69	.....	.....	.....
Feb.	12.85	.....	.....	.....	.....	.....
Mar.	12.99	.....	.....	13.17	13.18	13.21
Apr.	13.24	13.27	13.29	13.36	13.42	13.47
May	13.52	13.56	13.60	13.62	13.66	13.70
June	13.70	13.77	13.82	13.90	13.96	14.03
July	14.08	14.17	14.00	13.98	14.02	14.07
Aug.	14.18	14.25	14.33	14.38	14.45	14.62
Sept.	14.55	14.64	14.65	14.72	14.73	14.77
Oct.	14.86	14.92	15.02	15.03	14.99	15.04
Nov.	14.99	15.01	15.04	15.04	15.05	15.05
Dec.	15.23	15.25	15.34	15.40	.....	15.44

3050r. (C) City of Wichita. SE cor. sec. 24, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age. Measuring point, top of pipe, 0.50 foot above lsd. Highest water level 6.23 below lsd, Nov. 30, 1961; lowest 9.50 below lsd, Dec. 31, 1963. Records available: 1961-63. Mar. 29, 7.91; July 1, 8.55; Oct. 2, 9.07; Dec. 31, 9.50.

3050d. (C) City of Wichita. SE cor. sec. 24, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; depth 165 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 6.90 below lsd, Nov. 30, 1961; lowest 10.17 below lsd, Dec. 31, 1963. Records available: 1961-63. Mar. 29, 8.64; July 1, 9.25; Oct. 2, 9.75; Dec. 31, 10.17.

M-25b. (C) City of Wichita. NE NW sec. 1, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 51 feet. Measuring point, top of pipe, 0.80 foot above lsd. Highest water level 6.89 below lsd, Aug. 21, 1939; lowest 31.67 below lsd, Apr. 1, 1957. Records available: 1939-63.

Jan.	2	16.81	July	1	20.09Pc
Feb.	1	17.10Pc	Aug.	1	20.12Pc
Mar.	1	17.56		30	20.01
Apr.	1	17.98Pc	Oct.	1	19.99
May	1	18.65	Nov.	1	19.75
	31	18.12	Dec.	2	19.87

M-27. (C) City of Wichita. NW cor. sec. 2, T 25 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 215 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 13.96 below lsd, July 8, 1949; lowest 88.50 below lsd, Apr. 1, 1957. Records available: 1947, 1949-63.

Jan.	2	72.00Pm	July	1	70.00Pm
Feb.	1	20.00	Aug.	1	68.00Pm
Mar.	1	21.00		30	23.00
Apr.	1	72.00Pm	Oct.	1	23.00
May	1	72.00Pm	Nov.	1	71.50Pm
	31	22.00	Dec.	2	21.00

M-27b. (C) City of Wichita. NE cor. sec. 3, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 80 feet. Measuring point, top of pipe, 2.60 feet above lsd. Highest water level 12.62 below lsd, Oct. 4, 1948; lowest 32.51 below lsd, May 1, 1957. Records available: 1947-63.

Jan.	2	20.98Pc	July	1	22.96Pc
Feb.	1	20.15	Aug.	1	22.95Pc
Mar.	1	20.60		30	22.55
Apr.	1	22.11Pc	Oct.	1	22.48
May	1	22.38Pc	Nov.	1	23.78Pc
	31	21.70	Dec.	2	22.63

M-28. (C) City of Wichita. NE NW sec. 2, T 25 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 220 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 14.09 below lsd, July 8, 1949; lowest 88.00 below lsd, Aug. 1, 1956. Records available: 1947, 1949-63.

Jan.	2	21.00	July	1	22.00
Feb.	1	22.00	Aug.	1	62.00Pm
Mar.	1	62.00Pm		30	64.00Pm
Apr.	1	22.00	Oct.	1	68.00Pm
May	1	22.00	Nov.	1	23.00
	31	65.00Pm	Dec.	2	69.00Pm

M-28b. (C) City of Wichita. NW NE sec. 2, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 82 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 12.55 below lsd, Oct. 4, 1948; lowest 33.00 below lsd, May 1, 1957. Records available: 1947-63.

Jan.	2	20.31	July	1	21.90
Feb.	1	30.22	Aug.	1	22.58Pc
Mar.	1	20.96Pc		30	22.85Pc
Apr.	1	20.96	Oct.	1	22.83Pc
May	1	21.40	Nov.	1	22.82
	31	21.69Pc	Dec.	2	23.22Pc

M-29. (C) City of Wichita. NW cor. sec. 11, T 25 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 225 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 13.01 below lsd, July 8, 1949; lowest 67.00 below lsd, Oct. 2, 1958. Records available: 1947, 1949-63.

Jan. 2	51.00Pm	July 1	21.00
Feb. 1	51.00Pm	Aug. 1	20.00
Mar. 1	19.00	30	21.00
Apr. 1	54.00Pm	Oct. 1	21.00
May 1	20.00	Nov. 1	54.00Pm
31	57.00Pm	Dec. 2	55.00Pm

M-29b. (C) City of Wichita. NW NW sec. 11, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 103 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 7.01 below lsd, July 2, 1951; lowest 30.55 below lsd, Mar. 1, 1957. Records available: 1947-63.

Jan. 2	18.61Pc	July 1	18.63
Feb. 1	19.64Pc	Aug. 1	17.82
Mar. 1	16.07	30	18.91
Apr. 1	20.57Pc	Oct. 1	19.08
May 1	17.95	Nov. 1	22.16Pc
31	21.17Pc	Dec. 2	21.48Pc

M-30. (C) City of Wichita. NE NW sec. 11, T 25 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 225 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 7.31 below lsd, July 8, 1949; lowest 69.00 below lsd, Dec. 31, 1956. Records available: 1947, 1949-63.

Jan. 2	18.00	July 1	62.00Pm
Feb. 1	19.00	Aug. 1	19.00
Mar. 1	18.00	30	66.00Pm
Apr. 1	19.00	Oct. 1	54.00Pm
May 1	64.00Pm	Nov. 1	21.00
31	17.00	Dec. 2	21.00

M-30b. (C) City of Wichita. NW NE sec. 11, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 61 feet. Measuring point, top of pipe, 1.20 feet above lsd. Highest water level 7.39 below lsd, Oct. 4, 1948; lowest 32.70 below lsd, May 1, 1957. Records available: 1947-63.

Jan. 2	16.12	July 1	23.39Pc
Feb. 1	16.61	Aug. 1	18.02
Mar. 1	16.07	30	21.61Pc
Apr. 1	17.03	Oct. 1	21.70Pc
May 1	20.39Pc	Nov. 1	19.09
31	17.69	Dec. 2	18.65

M-31. (C) City of Wichita. NW cor. sec. 12, T 25 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 197 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 9.20 below lsd, July 8, 1949; lowest 67.00 below lsd, Oct. 1, 1953. Records available: 1947, 1949-63.

Jan. 2	53.00Pm	July 1	21.00
Feb. 1	52.00Pm	Aug. 1	57.00Pm
Mar. 1	56.00Pm	30	22.00
Apr. 1	20.00	Oct. 1	21.00
May 1	20.00	Nov. 1	56.00Pm
31	21.00	Dec. 2	22.00

M-31b. (C) City of Wichita. NW cor. sec. 12, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 62 feet. Measuring point, top of pipe, 1.40 feet above lsd. Highest water level 8.34 below lsd, July 7, 1948; lowest 35.32 below lsd, May 1, 1957. Records available: 1947-63.

Jan. 2	20.05Pc	July 1	20.93
Feb. 1	20.20Pc	Aug. 1	21.51Pc
Mar. 1	20.26Pc	30	21.13
Apr. 1	19.33	Oct. 1	20.82
May 1	19.19	Nov. 1	22.48Pc
31	20.45	Dec. 2	21.56

M-32. (C) City of Wichita. NE NE NW sec. 12, T 25 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 185 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 9.02 below lsd, July 8, 1949; lowest 81.50 below lsd, Jan. 31, 1958. Records available: 1947, 1949-63.

Jan. 2	19.00	July 1	57.00Pm
Feb. 1	19.00	Aug. 1	20.00
Mar. 1	20.00	30	58.00Pm
Apr. 1	56.00Pm	Oct. 1	21.00
May 1	56.00Pm	Nov. 1	21.00
31	20.00	Dec. 2	60.00Pm

M-32b. (C) City of Wichita. NE NW sec. 12, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 71 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 8.40 below lsd, Oct. 4, 1948; lowest 31.83 below lsd, Apr. 1, 1957. Records available: 1947-63.

Jan. 2	17.95	July 1	20.29Pc
Feb. 1	18.26	Aug. 1	20.31
Mar. 1	18.70	30	20.68Pc
Apr. 1	18.88Pc	Oct. 1	20.74
May 1	19.58Pc	Nov. 1	20.69
31	19.50	Dec. 2	21.46Pc

M-33. (C) City of Wichita. NE SE sec. 1, T 25 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 170 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 7.23 below lsd, July 8, 1949; lowest 81.00 below lsd, July 2, Aug. 1, 1956. Records available: 1947, 1949-63.

Jan. 2	18.00	July 1	20.00
Feb. 1	18.00	Aug. 1	46.00Pm
Mar. 1	19.00	30	46.00Pm
Apr. 1	18.00	Oct. 1	20.00
May 1	20.00	Nov. 1	47.00Pm
31	19.00	Dec. 2	21.50

SEDGWICK COUNTY—continued

M-33b. (C) City of Wichita. SE NE sec. 1, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 75 feet. Measuring point, top of casing, 1.60 feet above lsd. Highest water level 6.82 below lsd, Oct. 4, 1948; lowest 29.13 below lsd, Apr. 1, 1957. Records available: 1947-63.

Jan. 2	14.24	July 1	16.54
Feb. 1	14.26	Aug. 1	17.11Pc
Mar. 1	15.16	30	17.42Pc
Apr. 1	15.02	Oct. 1	16.99
May 1	15.83	Nov. 1	17.51Pc
31	16.10	Dec. 2	17.25

M-34. (C) City of Wichita. SW cor. sec. 6, T 25 S, R 1 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 150 feet. Measuring point, opening in side of pump base, 2.00 feet above lsd. Highest water level 6.96 below lsd, July 8, 1949; lowest 64.50 below lsd, Sept. 2, 1958. Records available: 1947, 1949-63.

Jan. 2	19.00	July 1	20.00
Feb. 1	19.00	Aug. 1	20.00
Mar. 1	50.00Pm	30	20.50
Apr. 1	19.00	Oct. 1	20.00
May 1	20.00	Nov. 1	21.00
31	20.00	Dec. 2	21.50

M-34b. (C) City of Wichita. SW SW sec. 6, T 25 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 85 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 5.64 below lsd, July 7, 1948; lowest 34.18 below lsd, Oct. 1, 1956. Records available: 1947-63.

Jan. 2	15.69	July 1	17.60
Feb. 1	16.36	Aug. 1	18.10
Mar. 1	16.85Pc	30	18.28
Apr. 1	16.41	Oct. 1	18.37
May 1	16.99	Nov. 1	18.35
31	17.58	Dec. 2	18.52

M-35. (C) City of Wichita. NE cor. NW sec. 7, T 25 S, R 1 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 130 feet. Measuring point, opening on side of pump base, 2.00 feet above lsd. Highest water level 10.30 below lsd, July 8, 1949; lowest 58.00 below lsd, Aug. 1, 1955, July 2, Aug. 1, 1956, Mar. 1, 1957. Records available: 1947, 1949-63.

Jan. 2	20.00	July 1	44.00Pm
Feb. 1	43.00Pm	Aug. 1	45.00Pm
Mar. 1	20.00	30	21.15
Apr. 1	20.00	Oct. 1	21.04
May 1	44.00Pm	Nov. 1	21.00
31	46.50Pm	Dec. 2	21.00

M-35b. (C) City of Wichita. SE SW sec. 6, T 25 S, R 1 W. Drilled, water-table observation well in sand and

gravel of Pleistocene age; diameter 1¼ inches, depth 86 feet. Measuring point, top of pipe, 1.10 feet above lsd. Highest water level 10.60 below lsd, Sept. 2, 1949; lowest 33.51 below lsd, May 1, 1957. Records available: 1947-63.

Jan. 2	19.51	July 1	22.41Pc
Feb. 1	20.40Pc	Aug. 1	22.50Pc
Mar. 1	20.27	30	21.91
Apr. 1	20.10	Oct. 1	21.74
May 1	21.56Pc	Nov. 1	21.92
31	22.65Pc	Dec. 2	22.20

M-36. (C) City of Wichita. SW SW NW sec. 7, T 25 S, R 1 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 184 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 19.57 below lsd, Feb. 1, 1962; lowest 62.99 below lsd, Apr. 1, 1960. Records available: 1958-63.

Jan. 2	57.53Pm	July 1	22.53
Feb. 1	20.17	Aug. 1	58.88Pm
Mar. 1	21.01	30	23.00
Apr. 1	21.04	Oct. 1	22.74
May 1	21.54	Nov. 1	22.65
31	21.68	Dec. 2	59.18Pm

M-36b. (C) City of Wichita. SW SW NW sec. 7, T 25 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 51 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 17.08 below lsd, Sept. 1, 1961; lowest 25.48 below lsd, Apr. 22, 1958. Records available: 1958-63.

Jan. 2	17.53Pc	July 1	19.10
Feb. 1	17.38	Aug. 1	19.88Pc
Mar. 1	17.85	30	19.81
Apr. 1	17.81	Oct. 1	19.87
May 1	18.40	Nov. 1	19.80
31	18.50	Dec. 2	20.22Pc

M-36d. (C) City of Wichita. SW SW NW sec. 7, T 25 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 180 feet. Measuring point, top of pipe, 2.30 feet above lsd. Highest water level 17.16 below lsd, Jan. 2, 1962; lowest 35.29 below lsd, July 1, Dec. 1, 1959. Records available: 1938-63.

Jan. 2	29.09Pc	July 1	20.09
Feb. 1	17.72	Aug. 1	31.21Pc
Mar. 1	18.59	30	20.43
Apr. 1	18.64	Oct. 1	20.30
May 1	19.10	Nov. 1	20.25
31	19.24	Dec. 2	32.23Pc

M-37. (C) City of Wichita. NW NW NE sec. 18, T 25 S, R 1 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 170 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 14.00 below lsd, Feb. 2, 1962; lowest 66.39 below lsd, Nov. 1, 1961. Records available: 1958-63.

Jan.	2	14.88	July	1	60.57Pm
Feb.	1	14.76	Aug.	1	16.81
Mar.	1	60.07Pm		30	60.02Pm
Apr.	1	60.67Pm	Oct.	1	17.00
May	1	15.94	Nov.	1	17.03
	31	61.93Pm	Dec.	2	17.67

M-37b. (C) City of Wichita. NW NE sec. 18, T 25 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 53 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 14.38 below lsd, Dec. 3, 1962; lowest 20.74 below lsd, Dec. 31, 1959. Records available: 1958-63.

Jan.	2	15.07	July	1	17.88Pc
Feb.	1	15.10	Aug.	1	17.25
Mar.	1	16.27Pc		30	18.35Pc
Apr.	1	16.46Pc	Oct.	1	17.58
May	1	16.23	Nov.	1	17.66
	31	17.28Pc	Dec.	2	17.95

M-37d. (C) City of Wichita. NW NE sec. 18, T 25 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 160 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 14.00 below lsd, Dec. 3, 1962; lowest 32.57 below lsd, Nov. 2, 1959. Records available: 1958-63.

Jan.	2	14.89	July	1	28.65Pc
Feb.	1	14.89	Aug.	1	16.92
Mar.	1	27.38Pc		30	28.67Pc
Apr.	1	27.50Pc	Oct.	1	17.07
May	1	16.01	Nov.	1	17.15
	31	28.71Pc	Dec.	2	17.82

M-38. (C) City of Wichita. NE cor. sec. 18, T 25 S, R 1 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 128 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 14.34 below lsd, Dec. 3, 1962; lowest 86.36 below lsd, Nov. 1, 1962. Records available: 1938-63.

Jan.	2	15.27	July	1	17.20
Feb.	1	68.74Pm	Aug.	1	17.22
Mar.	1	15.52		30	17.68
Apr.	1	15.80	Oct.	1	17.30
May	1	69.98Pm	Nov.	1	17.51
	31	16.53	Dec.	2	72.60Pm

M-38b. (C) City of Wichita. NE cor. sec. 18, T 25 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 46 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 16.13 below lsd, Nov. 1, 1961; lowest 22.02 below lsd, Sept. 1, 1959. Records available: 1958-63.

Jan.	2	17.13	July	1	18.90
Feb.	1	18.48Pc	Aug.	1	19.20
Mar.	1	17.35		30	19.47
Apr.	1	17.65	Oct.	1	19.28
May	1	19.54Pc	Nov.	1	19.52
	31	18.37	Dec.	2	20.62Pc

M-38d. (C) City of Wichita. NE cor. sec. 18, T 25 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 127 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 16.30 below lsd, Nov. 1, 1961; lowest 28.49 below lsd, Sept. 1, 1959. Records available: 1958-63.

Jan.	2	17.22	July	1	19.08
Feb.	1	24.74Pc	Aug.	1	19.24
Mar.	1	17.48		30	19.46
Apr.	1	17.77	Oct.	1	19.33
May	1	25.89Pc	Nov.	1	19.54
	31	18.51	Dec.	2	27.14Pc

M-39. (C) City of Wichita. NW NW SW sec. 17, T 25 S, R 1 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 154 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 14.24 below lsd, Jan. 2, 1962; lowest 52.73 below lsd, Feb. 1, 1960. Records available: 1958-63.

Jan.	2	49.93Pm	July	1	49.88Pm
Feb.	1	15.12	Aug.	1	50.94Pm
Mar.	1	15.81		30	50.11Pm
Apr.	1	16.16	Oct.	1	17.65
May	1	16.23	Nov.	1	17.86
	31	16.01	Dec.	2	17.21

M-39b. (C) City of Wichita. NW SW sec. 17, T 25 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 52 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 11.25 below lsd, Oct. 2, 1958; lowest 19.79 below lsd, Feb. 1, 1960. Records available: 1958-63.

Jan.	2	16.70Pc	July	1	18.21Pc
Feb.	1	13.08	Aug.	1	18.35Pc
Mar.	1	13.84		30	18.77Pc
Apr.	1	14.02	Oct.	1	15.46
May	1	14.19	Nov.	1	15.69
	31	13.98	Dec.	2	15.21

M-39d. (C) City of Wichita. NW SW sec. 17, T 25 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 143 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 11.83 below lsd, Nov. 1, 1958; lowest 21.50 below lsd, Feb. 1, 1960. Records available: 1958-63.

Jan.	2	18.35Pc	July	1	19.79Pc
Feb.	1	12.86	Aug.	1	19.93Pc
Mar.	1	13.79		30	20.13Pc
Apr.	1	14.14	Oct.	1	15.60
May	1	14.07	Nov.	1	15.82
	31	13.87	Dec.	2	14.99

M-40. (C) City of Wichita. SW cor. sec. 17, T 25 S, R 1 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 127 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 12.69 below lsd, Dec. 31, 1958; lowest 58.25 below lsd, Nov. 1, 1962. Records available: 1958-63.

SEDGWICK COUNTY—concluded

Jan. 2	14.40	July 1	15.88
Feb. 1	13.74	Aug. 1	16.06
Mar. 1	52.60Pm	30	16.40
Apr. 1	53.07Pm	Oct. 1	54.49Pm
May 1	14.43	Nov. 1	54.20Pm
31	14.59	Dec. 2	15.46

M-40b. (C) City of Wichita. SW cor. sec. 17, T 25 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 41 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 10.53 below lsd, Nov. 1, 1958; lowest 14.66 below lsd, July 1, 1959. Records available: 1958-63.

Jan. 2	12.09	July 1	13.63
Feb. 1	12.48	Aug. 1	13.96
Mar. 1	12.87Pc	30	14.20
Apr. 1	13.16Pc	Oct. 1	14.35Pc
May 1	13.03	Nov. 1	14.60Pc
31	13.18	Dec. 2	13.74

M-40d. (C) City of Wichita. SW cor. sec. 17, T 25 S, R 1 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 121 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 10.59 below lsd, Oct. 2, 1958; lowest 27.34 below lsd, July 1, 1959. Records available: 1958-63.

Jan. 2	12.86	July 1	14.31
Feb. 1	12.26	Aug. 1	14.56
Mar. 1	24.88Pc	30	14.62
Apr. 1	25.19Pc	Oct. 1	26.44Pc
May 1	13.03	Nov. 1	26.44Pc
31	13.14	Dec. 2	14.00

M-51. (C) City of Wichita. NW cor. sec. 5, T 25 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 185 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 17.22 below lsd, Jan. 2, 1959; lowest 83.50 below lsd, July 1, 1960. Records available: 1958-63.

Jan. 2	18.38	July 1	20.09
Feb. 1	73.27Pm	Aug. 1	20.43
Mar. 1	19.57	30	72.75Pm
Apr. 1	18.71	Oct. 1	21.00
May 1	18.89	Nov. 1	20.27
31	73.58Pm	Dec. 2	19.80

M-51b. (C) City of Wichita. NW cor. sec. 5, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 38 feet. Measuring point, top of pipe, 0.75 foot above lsd. Highest water level 6.33 below lsd, Aug. 1, 1961; lowest 10.67 below lsd, Nov. 1, 1963. Records available: 1958-63.

Jan. 2	8.54	July 1	9.99
Feb. 1	8.48Pc	Aug. 1	9.81
Mar. 1	8.82	30	10.14Pc
Apr. 1	8.90	Oct. 1	10.22
May 1	9.16	Nov. 1	10.67
31	9.81Pc	Dec. 2	10.65

M-51d. (C) City of Wichita. NW cor. sec. 5, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 162 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 18.39 below lsd, Jan. 2, 1959; lowest 51.62 below lsd, Sept. 1, 1959. Records available: 1958-63.

Jan. 2	20.28	July 1	22.91
Feb. 1	50.35Pc	Aug. 1	22.71
Mar. 1	20.50	30	45.78Pc
Apr. 1	20.57	Oct. 1	23.50
May 1	20.89	Nov. 1	22.29
31	47.07Pc	Dec. 2	21.84

M-52. (C) City of Wichita. SW SW NW sec. 5, T 25 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 40 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 5.72 below lsd, May 2, 1960; lowest 33.74 below lsd, July 1, 1963. Records available: 1958-63.

Jan. 2	7.96	July 1	33.74Pm
Feb. 1	7.65	Aug. 1	8.93
Mar. 1	31.95Pm	30	9.45
Apr. 1	7.97	Oct. 1	9.29
May 1	32.84Pm	Nov. 1	10.42
31	9.15	Dec. 2	9.93

M-52b. (C) City of Wichita. SW SW NW sec. 5, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 40 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 6.51 below lsd, Oct. 2, 1958; lowest 12.84 below lsd, July 1, 1963. Records available: 1958-63.

Jan. 2	9.83	July 1	12.84Pc
Feb. 1	9.57	Aug. 1	10.86
Mar. 1	11.60Pc	30	11.27
Apr. 1	9.86	Oct. 1	11.18
May 1	11.99Pc	Nov. 1	12.18
31	11.03	Dec. 2	11.78

M-53. (C) City of Wichita. SE SW SW sec. 5, T 25 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 92 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 5.21 below lsd, Aug. 1, 1961; lowest 32.50 below lsd, Oct. 1, 1963. Records available: 1958-63.

Jan. 2	7.92	July 1	32.02Pm
Feb. 1	30.57Pm	Aug. 1	32.26Pm
Mar. 1	8.36	30	32.35Pm
Apr. 1	8.41	Oct. 1	32.50Pm
May 1	7.86	Nov. 1	10.05
31	9.38	Dec. 2	10.16

M-53b. (C) City of Wichita. SE SW SW sec. 5, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 36 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 3.50 below lsd, Oct. 2, 1958; lowest 9.83 below lsd, Aug. 30, 1963. Records available: 1958-63.

Jan. 2	6.38	July 1	9.20Pc
Feb. 1	8.07Pc	Aug. 1	9.36Pc
Mar. 1	6.76	30	9.83Pc
Apr. 1	6.87	Oct. 1	9.45Pc
May 1	7.26	Nov. 1	8.52
31	7.43	Dec. 2	8.60

M-54. (C) City of Wichita. NW NW SE sec. 5, T 25 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 80 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 5.35 below lsd, Aug. 1, 1961; lowest 23.40 below lsd, May 1, 1963. Records available: 1958-63.

Jan. 2	8.38	July 1	10.04
Feb. 1	8.59	Aug. 1	10.40
Mar. 1	9.24	30	11.07
Apr. 1	9.07	Oct. 1	10.49
May 1	23.40Pm	Nov. 1	10.76
31	10.05	Dec. 2	10.93

M-54b. (C) City of Wichita. NW NW SE sec. 5, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 38 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 4.70 below lsd, Sept. 1, 1961; lowest 11.73 below lsd, Dec. 2, 1963. Records available: 1959-63.

Jan. 2	9.16	July 1	10.84
Feb. 1	9.33	Aug. 1	11.18
Mar. 1	10.04	30	11.69
Apr. 1	9.86	Oct. 1	11.25
May 1	11.07Pc	Nov. 1	11.50
31	10.75	Dec. 2	11.73

M-55. (C) City of Wichita. SE SW SE sec. 5, T 25 S, R 2 W. Drilled, water-table public-supply well in sand and gravel of Pleistocene age; diameter 18 inches, depth 47 feet. Measuring point, top of casing, 2.00 feet above lsd. Highest water level 9.06 below lsd, July 1, 1960; lowest 28.10 below lsd, July 1, 1963. Records available: 1958-63.

Jan. 2	25.50Pm	July 1	28.10Pm
Feb. 1	11.44	Aug. 1	27.30Pm
Mar. 1	11.54	30	13.53
Apr. 1	26.65Pm	Oct. 1	13.36
May 1	12.42	Nov. 1	13.32
31	12.32	Dec. 2	27.05Pm

M-55b. (C) City of Wichita. SE SW SE sec. 5, T 25 S, R 2 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1 1/4 inches, depth 40 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 5.94 below lsd, Oct. 2, 1958; lowest 13.17 below lsd, Oct. 1, 1959. Records available: 1958-63.

Jan. 2	11.13Pc	July 1	13.13Pc
Feb. 1	9.52	Aug. 1	12.20Pc
Mar. 1	9.66	30	11.50
Apr. 1	11.78Pc	Oct. 1	11.44
May 1	10.43	Nov. 1	11.25
31	10.41	Dec. 2	12.09Pc

26-2-22ab. (C) Al Stoltz. Drilled irrigation well in sand and gravel of Pleistocene age; diameter 6 inches, depth 42 feet. Measuring point since Apr. 20, 1961, bottom inside lip elbow, 1.25 feet above lsd. Measurements made prior to Apr. 20, 1961, made from land surface; published records should be corrected by addition of 1.25 feet. Highest water level 3.58 below lsd, Dec. 19, 1960 (erroneously published previously as 2.33 below lsd); lowest 7.34 below lsd, Oct. 21, 1963. Records available: 1960-63.

Jan. 14	5.33	May 21	6.14	Sept. 27	7.10
Feb. 19	5.61	June 24	6.22	Oct. 21	7.34
Mar. 28	5.54	July 26	5.59	Nov. 21	7.21
Apr. 23	5.68	Aug. 22	5.82	Dec. 17	7.16

27-1-26ddd. (C) U.S.G.S. and K.G.S. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 6 to 2 inches, depth 87 feet. Measuring point, hole in recorder base, 2.00 feet above lsd. Highest water level 6.15 below lsd, May 10, 1961; lowest 9.24 below lsd, Dec. 30, 1963. Records available: 1959-63.

Month	5	10	15	20	25	30
Jan.	8.28	8.12	8.21	8.15	8.18	8.29
Feb.	8.28	8.33	8.34	8.39	8.36	.....
Mar.	8.44	8.30	8.14	8.21	8.19	8.23
Apr.	8.26	8.33	8.29	8.44	8.50	8.55
May	8.59	8.64	8.63	8.72	.....	7.75
June	7.53	7.70	7.84	7.52	7.69	7.94
July	8.02	8.21	8.24	8.36	8.46	8.53
Aug.	8.66	8.78	8.88	8.87	8.93	8.99
Sept.	8.77	8.59	8.40	8.44	8.70	8.77
Oct.	8.85	8.97	9.06	8.95	8.94	8.95
Nov.	9.00	9.08	9.04	9.08	9.06	9.08
Dec.	9.03	9.05	.....	9.18	.....	9.24

28-1-2cb. (C) Bill Vanderhaff. Driven, domestic and stock well in sand and gravel of Pleistocene age; diameter 1 1/2 inches, depth 30 feet. Measuring point, top of pipe, 0.40 foot above lsd. Highest water level 9.90 below lsd, July 16, 1962; lowest 11.20 below lsd, Apr. 29, 1959. Records available: 1959-63. Jan. 14, 10.35; Apr. 23, 10.39; Oct. 21, 10.78; Dec. 17, 10.84.

28-1-36adc. (C) George Lipke. Drilled irrigation well in sand and gravel of Pleistocene age; diameter 10 inches, depth 58 feet. Measuring point, hole in south edge of pump, 1.20 feet above lsd. Highest water level 28.47 below lsd, Apr. 16, 1962; lowest 30.09 below lsd, July 23, 1959. Records available: 1959-63. Jan. 14, 28.91; Apr. 23, 29.73; Oct. 21, 29.86; Dec. 17, 29.88.

SEWARD COUNTY

15. (C) Cabot Carbon Co. SE SW sec. 21, T 32 S, R 33 W. Drilled, water-table domestic and stock well in alluvium; diameter 5 inches, depth 53 feet. Measuring point, top of hole cut in steel disk, 0.20 foot above lsd. Highest water level 15.88 below lsd, May 3, 1944; lowest 19.60 below lsd, July 11, 1960. Records available: 1940-63. Jan. 14, 17.76; Apr. 17, 17.75; July 17, 18.18; Oct. 7, 18.10.

31-31-8bc. (C) J. A. Fleming. Drilled, water-table irrigation well in Ogallala Formation; diameter 16 inches, depth 400 feet. Measuring point, edge of 3/4-inch hole in NW corner pump head base, 0.50 foot above lsd.

SEWARD COUNTY—concluded

Highest water level 167.55 below lsd, June 12, 1962; lowest 178.05 below lsd, Sept. 9, 1963. Records available: 1962-63.

1962	1963	1963
June 12 167.55	Mar. 13 170.50	Sept. 9 178.05
Dec. 19 167.84	June 10 177.85	Dec. 10 171.23

31-34-5aa. (C) Bob Harlow. Drilled, abandoned, water-table irrigation well in Ogallala Formation and deposits of Pleistocene age; diameter 6 inches, depth 44 feet. Measuring point, edge of ½-inch hole in southeast side of cover plate, at land surface. Highest water level 37.00 below lsd, June 4, 1962; lowest 38.47 below lsd, Sept. 11, 1962. Records available: 1962-63. Jan. 2, 37.55; Apr. 3, 37.87; July 9, 37.76; Oct. 2, 37.43.

31-34-17cb. (C) Carrie Young. Drilled, water-table stock well in Ogallala Formation and sand and gravel of Pleistocene age; diameter 5 inches, depth 131 feet. Measuring point, north side between plate and shaft of pump, 0.20 foot above lsd. Highest water level 113.05 below lsd, Oct. 25, 1951; lowest 124.50 below lsd, Sept. 12, 1961. Records available: 1950-61. Measurement discontinued.

33-31-20aa. (C) Owner unknown. Drilled stock well in Ogallala Formation; diameter 5 inches, depth 191 feet. Measuring point, top of iron plate in pipe, 0.70 foot above lsd. Highest water level 172.46 below lsd, Mar. 12, 1957; lowest 180.62 below lsd, Nov. 6, 1958. Records available: 1956-61, 1963. Mar. 13, 180.25. Measurement discontinued.

33-33-29dd. (C) Owner unknown. Drilled stock well in Ogallala Formation and sand and gravel of Pleistocene age; diameter 4 inches, depth 176 feet. Measuring point, top west side of casing, 0.80 foot above lsd. Highest water level 168.25 below lsd, Nov. 13, 1956; lowest 173.64 below lsd, Oct. 9, 1962. Records available: 1955-63. Jan. 14, 172.11; Apr. 17, 172.17; July 17, P; Oct. 7, 171.12.

SHAWNEE COUNTY

10-13-31baa. (C) Owner unknown. Drilled observation well in alluvium; diameter 1¼ inches, depth 33 feet. Measuring point, top of pipe, 1.75 feet above lsd. Highest water level 11.30 below lsd, Dec. 1, 1961; lowest 16.55 below lsd, Aug. 1, 1963. Records available: 1959-63.

Jan. 2	13.69	June 3	14.15	Sept. 30	15.52
Feb. 1	13.72	July 1	15.05	Oct. 31	15.63
Mar. 1	13.85	Aug. 1	16.55	Dec. 2	15.73
Apr. 1	14.01	30	15.71	27	15.55
May 1	14.05				

10-14-5dcc. (C) U.S.G.S. Bored, water-table observation well in terrace deposits of Wisconsinan age; diameter 1 inch, depth 23 feet. Measuring point, top of pipe, 3.00 feet above lsd. Highest water level 4.23 below lsd, July 24, 1963; lowest 5.60 below lsd, Dec. 5, 1963. Records available: 1963. July 24, 4.23; Sept. 24, 4.30; Nov. 7, 4.99; Dec. 5, 5.60.

11-15-13acc. (16) (C) Goodyear Tire and Rubber Co. Drilled, water-table observation well in alluvium; diameter 2 inches, depth (remeasured 1962) 68 feet.

Measuring point, top east edge coupling, 1.80 feet above lsd. Highest water level 31.77 below lsd, Dec. 1, 1958; lowest 38.30 below lsd, Oct. 3, 1960. Records available: 1958-63. Measurement discontinued.

Jan. 2	35.24Pc*	Apr. 1	36.58Pc*
Feb. 1	36.20Pc*	May 1	36.86Pc*
Mar. 1	36.44Pc*	June 3	36.68Pc*

* Well pumping within 100 feet.

11-15-13ccc. (17) (C) J. H. Skinner Co. Drilled, water-table irrigation well in alluvium; diameter 16 inches, depth 77 feet. Measuring point, hole in southeast section of pump base, 0.80 foot above lsd. Highest water level 28.04 below lsd, Oct. 10, 1958, June 1, 1959; lowest 32.82 below lsd, Dec. 27, 1963. Records available: 1958-63.

Jan. 2	30.77	June 3	31.79	Sept. 30	32.70
Feb. 1	31.04	July 1	31.92	Oct. 31	32.72
Mar. 1	31.18	Aug. 1	32.25	Dec. 2	32.76
Apr. 1	31.37	30	32.43	27	32.82
May 1	31.68				

11-15-13dac. (2) (C) Goodyear Tire and Rubber Co. Drilled, water-table observation well in alluvium; diameter 2 inches, depth (remeasured 1962) 69 feet. Measuring point, top east edge of pipe coupling, 2.30 feet above lsd. Highest water level 28.67 below lsd, June 2, 1960; lowest 34.94 below lsd, Dec. 2, 1963. Records available: 1958-63.

Jan. 2	32.08Pc*	Aug. 1	34.31Pc*
Feb. 1	32.76Pc*	30	34.60Pc*
Mar. 1	32.80Pc*	Sept. 30	34.83Pc*
Apr. 1	32.88Pc*	Oct. 31	34.90Pc*
May 1	33.04Pc*	Dec. 2	34.94Pc*
June 3	32.45	27	34.65Pc*
July 1	33.73Pc*		

* Well pumping within 100 feet.

11-15-13dbc. (4) (C) Goodyear Tire and Rubber Co. Drilled, water-table observation well in alluvium; diameter 2 inches, depth (corrected to land surface) 77 feet. Measuring point, top east edge of coupling, 1.50 feet above lsd. Highest water level 29.96 below lsd, Dec. 1, 1958; lowest 35.21 below lsd, Sept. 30, 1963. Records available: 1958-63.

Jan. 2	32.16Pc*	Aug. 1	34.43Pc*
Feb. 1	32.66Pc*	30	34.78Pc*
Mar. 1	32.74Pc*	Sept. 30	35.21Pc*
Apr. 1	32.80Pc*	Oct. 31	34.93Pc*
May 1	32.96Pc*	Dec. 2	34.97Pc*
June 3	34.08Pc*	27	34.95Pc*
July 1	33.98		

* Well pumping within 100 feet.

11-15-13dbd. (3) (C) Goodyear Tire and Rubber Co. Drilled, water-table observation well in alluvium; diameter 2 inches, depth 76 feet. Measuring point, top east edge of pipe, 2.20 feet above lsd. Highest water level 27.61 below lsd, Dec. 1, 1958; lowest 33.58 below lsd, Sept. 30, 1963. Records available: 1958-63.

Jan. 2	30.63Pc*	Aug. 1	32.78Pc*
Feb. 1	31.17Pc*	30	33.21Pc*
Mar. 1	31.31Pc*	Sept. 30	33.58Pc*
Apr. 1	31.33Pc*	Oct. 31	33.44Pc*
May 1	31.52Pc*	Dec. 2	33.50Pc*
June 3	32.04Pc*	27	33.28Pc*
July 1	32.35Pc*		

* Well pumping within 100 feet.

11-15-13dcb. (5) (C) Topeka Implement Co. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth (remeasured 1962) 41 feet. Measuring point, top east edge of pipe, 2.00 feet above lsd. Highest water level 29.20 below lsd, Oct. 9, 1958; lowest 34.53 below lsd, Oct. 31, 1963. Records available: 1958-63.

Jan. 2	31.72	June 3	32.96	Sept. 30	34.08
Feb. 1	32.19	July 1	33.23	Oct. 31	34.53
Mar. 1	32.33	Aug. 1	33.59	Dec. 2	34.00
Apr. 1	32.46	30	33.90	27	33.28
May 1	32.70				

11-15-14adb. (15) (C) Howard Jackson. Drilled, water-table irrigation well in alluvium; diameter 24 inches, depth 58 feet. Measuring point, 1½-inch opening in floor on north side of pump, at land surface. Highest water level 29.30 below lsd, Dec. 16, 1933; lowest 35.30 below lsd, Dec. 27, 1963. Records available: 1933, 1959-63.

Jan. 2	33.50	June 3	34.27	Sept. 30	35.12
Feb. 1	33.68	July 1	34.55	Oct. 31	35.21
Mar. 1	33.83	Aug. 1	34.67	Dec. 2	35.27
Apr. 1	33.99	30	34.97	27	35.30
May 1	34.28				

11-15-14cbb. (13) (C) R. H. Stover. Drilled, water-table irrigation well in alluvium; diameter 17 inches, depth 92 feet. Measuring point, plus mark south edge of pump, 1.00 foot above lsd. Highest water level 28.73 below lsd, Jan. 6, 1959; lowest 33.05 below lsd, Dec. 27, 1963. Records available: 1959-63.

Jan. 2	31.48	June 3	32.03	Sept. 30	32.85
Feb. 1	31.56	July 1	32.28	Oct. 31	32.91
Mar. 1	31.71	Aug. 1	32.90	Dec. 2	32.97
Apr. 1	31.86	30	33.00	27	33.05
May 1	32.04				

11-15-14ccb. (12) (C) State of Kansas. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth (remeasured 1962) 44 feet. Measuring point, top east edge of pipe, 4.10 feet above lsd. Highest water level 24.80 below lsd, Oct. 10, 1958; lowest 30.30 below lsd, Dec. 27, 1963. Records available: 1958-63.

Jan. 2	28.72	June 3	29.43	Sept. 30	30.15
Feb. 1	28.84	July 1	29.54	Oct. 31	30.18
Mar. 1	29.00	Aug. 1	30.05	Dec. 2	30.25
Apr. 1	29.19	30	30.17	27	30.30
May 1	29.35				

11-15-14ddb. (14) (C) R. Stover. Drilled, water-table observation well in alluvium; diameter 1¼ inches,

depth 39 feet. Measuring point, top east edge of pipe, 0.70 foot above lsd. Highest water level 25.90 below lsd, Jan. 6, 1959; lowest 30.25 below lsd, Oct. 31, 1963. Records available: 1958-63.

Jan. 2	28.60	June 3	29.35	Sept. 30	30.19
Feb. 1	28.72	July 1	29.54	Oct. 31	30.25
Mar. 1	28.89	Aug. 1	29.90	Dec. 2	30.20
Apr. 1	29.05	30	30.13	27	30.23
May 1	29.30				

11-15-16c. (C) State Board of Agriculture. Drilled, water-table observation well in alluvium; diameter 18 inches, depth 38 feet (remeasured 1963). Measuring point, top of casing, 0.80 foot above lsd. Highest water level 8.87 below lsd, July 16, 1951; lowest 31.34 below lsd, Apr. 10, 15, 1957. Records available: 1950-63.

Month	5	10	15	20	25	30
Jan.	26.68	26.70	26.74	26.77	26.80	26.83
Feb.	26.85	26.88	26.91	26.92	26.94	.....
Mar.	26.98	27.02	27.04	27.06	27.07	27.08
Apr.	27.09	27.08	27.11	27.12	27.14	27.16
May	27.18	27.19	27.21	27.23	27.19	27.11
June	26.95	26.81	26.75	26.68	26.57	26.42
July	26.36	26.37	26.36	26.16	26.02	26.00
Aug.	26.08	26.15	26.26	26.35	26.41	26.49
Sept.	26.57	26.62	26.69	26.77	26.83	26.90
Oct.	26.98	27.03	27.07	27.10	27.14	27.18
Nov.	27.22	27.25	27.29	27.31	27.33	27.36
Dec.	27.38	27.39	27.40	27.42	27.43	27.45

11-15-22aaa. (11) (C) F. E. Baird. Dug and drilled, water-table irrigation well in alluvium; diameter 12 inches, depth 50 feet. Measuring point, notch in 2-x-6 plank over well pit, 1.00 foot above lsd. Highest water level 24.50 below lsd, Dec. 1, 1958; lowest 28.77 below lsd, Dec. 2, 1963. Records available: 1958-63.

Jan. 2	27.12	June 3	27.61	Sept. 30	28.67
Feb. 1	27.56	July 1	28.21	Oct. 31	28.67
Mar. 1	27.72	Aug. 1	28.48	Dec. 2	28.77
Apr. 1	27.89	30	28.64	27	28.70
May 1	27.92				

11-15-22cac. (10A) (C) E. L. Whiteman. Drilled, water-table irrigation well in alluvium; diameter 16 inches, depth 48 feet. Measuring point, 1-inch threaded hole in south section of pump, 0.50 foot above lsd. Highest water level 13.84 below lsd, May 3, July 1, 1960; lowest 18.46 below lsd, May 1, 1961. Records available: 1958-63.

Jan. 2	16.87	June 3	17.22	Sept. 30	17.53
Feb. 1	16.99	July 1	17.38	Oct. 31	17.58
Mar. 1	17.07	Aug. 1	17.38	Dec. 2	17.80
Apr. 1	17.12	30	17.64	27	17.98
May 1	17.29				

11-15-23dbd. (10) (C) J. G. Meier. Drilled, water-table irrigation well in alluvium; diameter 18 inches, depth (corrected to land surface) 52 feet. Measuring point, hole in southwest section of pump base, 1.60 feet above lsd. Highest water level 21.76 below lsd, July 1,

SHAWNEE COUNTY—concluded

1960; lowest 26.12 below lsd, Dec. 27, 1963. Records available: 1958-63.

Jan. 2	24.54	May 1	25.18	Sept. 30	25.62
Feb. 1	24.70	June 3	25.03	Oct. 31	25.70
Mar. 1	24.84	July 1	25.58	Dec. 2	25.90
Apr. 1	24.92	Aug. 30	25.67	27	26.12

11-15-24abc. (6) (C) S. A. Meier. Drilled, water-table irrigation well in alluvium; diameter 16 inches, depth 53 feet. Measuring point, hole in northwest section of pump base, 0.80 foot above lsd. Highest water level 23.17 below lsd, Dec. 1, 1958; lowest 28.72 below lsd, Dec. 27, 1963. Records available: 1958-63.

Jan. 2	26.54	June 3	27.57	Sept. 30	28.29
Feb. 1	26.82	July 1	27.78	Oct. 31	28.50
Mar. 1	27.05	Aug. 1	28.04	Dec. 2	28.60
Apr. 1	27.17	30	28.29	27	28.72
May 1	27.55				

11-15-24acd. (8) (C) Jackson Greenhouse. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 43 feet. Measuring point, top of pipe, 0.06 foot below lsd. Highest water level 23.20 below lsd, Oct. 9, 1958; lowest 28.21 below lsd, Dec. 27, 1963. Records available: 1958-63.

Jan. 2	26.25	June 3	27.07	Sept. 30	27.74
Feb. 1	26.45	July 1	27.21	Oct. 31	27.76
Mar. 1	26.62	Aug. 1	27.31	Dec. 2	27.96
Apr. 1	26.75	30	27.70	27	28.21
May 1	27.01				

11-15-24ada. (7) (C) J. H. Skinner and Co. Drilled, water-table irrigation well in alluvium; diameter 16 inches, depth (corrected to land surface) 77 feet. Measuring point, hole in northwest section of pump base, 0.60 foot above lsd. Highest water level 23.29 below lsd, Dec. 1, 1958; lowest 27.33 below lsd, Dec. 2, 1963. Records available: 1958-63.

Jan. 2	25.42	May 1	26.35	Sept. 30	27.01
Feb. 1	25.66	June 3	26.40	Oct. 31	27.06
Mar. 1	25.88	July 1	26.45	Dec. 2	27.33
Apr. 1	26.06	Aug. 30	26.88	27	26.98

11-15-24dbd. (9) (C) I. A. Brown. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth (remeasured 1962) 32 feet. Measuring point, top edge of pipe, 3.20 feet above lsd. Highest water level 15.40 below lsd, Apr. 4, 1960; lowest 21.42 below lsd, Dec. 27, 1963. Records available: 1958-63.

Jan. 2	19.76	June 3	20.30	Sept. 30	20.51
Feb. 1	20.02	July 1	20.43	Oct. 31	20.82
Mar. 1	20.16	Aug. 1	20.50	Dec. 2	21.23
Apr. 1	20.13	30	20.45	27	21.42
May 1	20.42				

11-16-18cad. (1) (C) R. W. Sowell. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 40 feet. Measuring point, top east edge of pipe,

2.50 feet above lsd. Highest water level 24.10 below lsd, Oct. 10, 1958; lowest 28.81 below lsd, Dec. 27, 1963. Records available: 1958-63.

Jan. 2	26.84	June 3	27.93	Sept. 30	28.37
Feb. 1	27.09	July 1	27.97	Oct. 31	28.57
Mar. 1	27.34	Aug. 1	28.01	Dec. 2	28.76
Apr. 1	27.50	30	28.19	27	28.81
May 1	27.80				

11-16-19ddd. (19) (C) Gibson Bros. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 50 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 23.41 below lsd, July 2, 1962; lowest 26.23 below lsd, Oct. 31, 1963. Records available: 1962-63.

Jan. 2	24.93	June 3	25.69	Sept. 30	26.18
Feb. 1	25.05	July 1	25.89	Oct. 31	26.23
Mar. 1	25.33	Aug. 1	25.78	Dec. 2	25.76
Apr. 1	25.44	30	26.05	27	25.95
May 1	25.65				

11-16-20bc. (18A) (C) Mrs. Ray Mitchell. Drilled, water-table observation well in alluvium; diameter 1¼ inches, depth 44 feet. Measuring point, top of pipe, 1.00 foot above lsd. Highest water level 20.88 below lsd, July 2, 1962; lowest 23.45 below lsd, Dec. 27, 1963. Records available: 1962-63.

Jan. 2	21.56	June 3	22.44	Sept. 30	23.11
Feb. 1	21.78	July 1	22.61	Oct. 31	23.27
Mar. 1	22.03	Aug. 1	22.76	Dec. 2	23.38
Apr. 1	22.18	30	22.95	27	23.45
May 1	22.35				

SHERIDAN COUNTY

7-28-28dd. (C) Owner unknown. Drilled, unused observation well in Ogallala Formation; diameter 6 inches, depth 118 feet. Measuring point, top of casing, 1.00 foot above lsd. Highest water level 107.50 below lsd, Apr. 14, 1961; lowest 108.78 below lsd, Apr. 12, 1960. Records available: 1952-63. Jan. 15, 108.70; Apr. 11, 108.34; July 10, 108.15; Oct. 15, 108.41. Measurement discontinued.

7-29-30aa. (C) Darman Hill. Drilled, water-table irrigation well in Ogallala Formation; diameter 18 inches, depth 179 feet. Measuring point, hole in pump base, 0.75 foot above lsd. Highest water level 120.47 below lsd, Jan. 15, 1963; lowest 127.50 below lsd, July 10, 1963. Records available: 1962-63.

Jan. 15	120.47	July 10	127.50	Dec. 18	121.30
Apr. 11	121.96	Oct. 15	121.86		

8-26-17cb. (C) Owner unknown. Drilled, unused observation well in Ogallala Formation; diameter 5 inches, depth 55 feet. Measuring point, top of casing, 0.20 foot above lsd. Highest water level 46.55 below lsd, Jan. 16, 1961; lowest 49.03 below lsd, Nov. 26, 1956. Records available: 1952-63. Measurement discontinued.

Jan. 16	47.12	July 10	47.56	Dec. 17	47.64
Apr. 11	48.00	Oct. 15	47.95		

8-28-28da. (C) Clance Shamberger. Drilled stock well in Ogallala Formation; diameter 6 inches, depth 106 feet. Measuring point, hole in south side of pump base, 1.00 foot above lsd. Highest water level 45.11 below lsd, Apr. 12, 1960; lowest 78.25 below lsd, Apr. 10, 1962. Records available: 1960-63. Jan. 15, P; July 10, P; Oct. 15, 78.21; Dec. 18, P.

9-30-35bb. (C) David Baalman. Drilled, water-table irrigation well in Ogallala Formation; diameter 18 inches, depth 220 feet. Measuring point, hole in west side of pump base, 0.50 foot above lsd. Highest water level 121.84 below lsd, Apr. 11, 1963; lowest 145.50 below lsd, July 10, 1963. Records available: 1962-63.

Jan. 15	122.08	July 10	145.50	Dec. 18	124.21
Apr. 11	121.84	Oct. 15	124.58		

10-30-17da. (C) James Schroeder. Drilled, water-table irrigation well in Ogallala Formation; diameter 18 inches, depth 167 feet. Measuring point, hole in east side of pump base, 0.70 foot above lsd. Highest water level 59.60 below lsd, Apr. 11, 1963; lowest 61.31 below lsd, Oct. 15, 1963. Records available: 1962-63. Jan. 15, 59.68; Apr. 11, 59.60; Oct. 15, 61.31; Dec. 18, 60.79.

SHERMAN COUNTY

6-42-2aaa. (C) Harvey J. Stewart. Drilled, unused, water-table stock well in Ogallala Formation; diameter 6 inches, depth 225 feet. Measuring point, top of casing, 0.70 foot above lsd. Highest water level 180.10 below lsd, July 12, 1961; lowest 183.34 below lsd, Oct. 13, 1960. Records available: 1959-63. Jan. 15, 181.50; Apr. 10, 181.16; July 9, 181.73; Oct. 16, 183.11.

7-39-30cc. (C) Bernard Borgman. Drilled, water-table irrigation well in Ogallala Formation; depth 269 feet. Measuring point, inside of pump-head base on the east side just north of the E-W axis of the pump, 0.75 foot above lsd. Highest water level 113.34 below lsd, Jan. 14, 1963; lowest 116.82 below lsd, Sept. 6, 1962. Records available: 1962-63.

Jan. 14	113.34	July 9	P	Dec. 19	116.80
Apr. 10	114.25	Oct. 16	P		

8-39-19caa. (C) Wm. Hall (City of Goodland). Drilled, unused, water-table well in Ogallala Formation; diameter 6 inches, depth 167 feet. Measuring point, top south side of casing, 0.40 foot above lsd. Highest water level 147.40 below lsd, Mar. 16, 1945; lowest dry, July 9, Oct. 16, Dec. 19, 1963. Records available: 1942-43, 1945, 1950-60, 1962-63. Jan. 14, 159.11; Apr. 9, 158.96; July 9, dry; Oct. 16, dry; Dec. 19, dry. Measurement discontinued.

8-39-31abc. (C) Kenneth Armstrong. Drilled, water-table observation well in Ogallala Formation; diameter 5 inches, depth 193 feet. Measuring point, top of casing on north side, 2.70 feet above lsd. Highest water level 147.60 below lsd, June 20, 1963; lowest 167.20 below lsd, July 9, 1963. Records available: 1963. June 20, 147.60; July 9, 167.20; Oct. 16, 152.21; Dec. 19, 157.18.

8-40-24baa. (C) Victoria Van Drasek Estate. Drilled, unused, water-table well in Ogallala Formation; diameter 6 inches, depth 159 feet. Measuring point, top west side of casing, 0.70 foot above lsd. Highest water level 135.54 below lsd, Apr. 21, 1953; lowest 147.78 below lsd, Dec. 19, 1963. Records available: 1948-63.

Jan. 14	141.79	July 9	144.48	Dec. 19	147.78
Apr. 9	142.00	Oct. 16	145.69		

8-42-4bb. (C) Bill R. Wright. Drilled, water-table irrigation well in Ogallala Formation; diameter 18 inches, depth 322 feet. Measuring point, hole in south side of pump base, 1.00 foot above lsd. Highest water level 147.73 below lsd, Jan. 14, 1963; lowest 152.29 below lsd, Sept. 6, 1962. Records available: 1962-63. Jan. 14, 147.73; July 9, P; Oct. 16, 151.40; Dec. 19, 149.66.

9-39-30cbb. (C) Charles Glenn. Drilled, unused, water-table well in Ogallala Formation; diameter 6 inches, depth 135 feet. Measuring point, top south side of casing, at land surface. Highest water level 117.99 below lsd, Jan. 20, 1953; lowest 119.65 below lsd, Dec. 19, 1963. Records available: 1948-63.

Jan. 14	119.07	July 8	119.21	Dec. 19	119.65
Apr. 9	119.24	Oct. 16	119.29		

9-42-11cc. (C) Emmett Blystone. Drilled, water-table irrigation well in Ogallala Formation; diameter 16 inches, depth 280 feet. Measuring point, hole in north side of pump base, 1.00 foot above lsd. Highest water level 125.81 below lsd, Apr. 10, 1963; lowest 135.71 below lsd, Oct. 16, 1963. Records available: 1962-63.

Jan. 14	126.58	July 9	P	Dec. 19	133.64
Apr. 10	125.81	Oct. 16	135.71		

SMITH COUNTY

4-14-32bc. (MB) U.S.B.R. Drilled observation well in alluvium; diameter 1¼ inches, depth 42 feet. Measuring point, top of pipe, 2.00 feet above lsd. Highest water level 22.55 below lsd, Aug. 14, 1962; lowest 37.62 below lsd, June 19, 1957. Records available: 1956-63.

Feb. 12	24.80	June 18	25.57	Oct. 14	23.50
Apr. 16	25.60	Aug. 13	24.55		

4-14-34bc. (MB) Laura Davis. Dug, water-table stock well in terrace deposits of Pleistocene age; diameter 32 inches, depth 46 feet. Measuring point, top south side of wooden platform, 2.00 feet above lsd. Highest water level 32.58 below lsd, Oct. 8, 1959; lowest 45.37 below lsd, Mar. 22, 1951. Records available: 1945-60, 1962. No measurement made in 1963.

4-14-34dd. (MB) U.S.G.S. Jetted well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 40 feet. Measuring point, top of pipe, 1.10 feet above lsd. Highest water level 21.71 below lsd, Nov. 20, 1951; lowest 32.10 below lsd, June 20, 1957. Records available: 1951-60. No measurement made in 1963.

4-15-31cb. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 30 feet. Measuring point, top of pipe, 1.60 feet above lsd. Highest water level 6.88 below lsd, June 13, 1961; lowest 15.65 below lsd, July 26, 1957. Records available: 1951-63.

Feb. 12	8.47	June 18	8.55	Oct. 14	7.80
Apr. 16	8.58	Aug. 13	8.23		

SMITH COUNTY—concluded

4-15-34bb. (MB) U.S.B.R. Drilled observation well in alluvium; diameter 1¼ inches, depth 58 feet. Measuring point, top of pipe, 2.20 feet above lsd. Highest water level 16.70 below lsd, Sept. 21, 1959; lowest 34.04 below lsd, June 19, 1957. Records available: 1956-63.

Feb. 12	19.19	June 18	20.66	Oct. 14	18.50
Apr. 16	19.88	Aug. 13	18.18		

4-15-34cb. (MB) U.S.B.R. Drilled observation well in alluvium; diameter 1¼ inches, depth 38 feet. Measuring point, top of pipe, 2.60 feet above lsd. Highest water level 14.10 below lsd, Sept. 19, 1961; lowest 30.20 below lsd, May 14, 1957. Records available: 1956-63.

Feb. 12	17.37	June 18	16.53	Oct. 14	25.90
Apr. 16	16.50	Aug. 13	25.89		

4-15-34da. (MB) U.S.B.R. Drilled observation well in alluvium; diameter 1¼ inches, depth 62 feet. Measuring point, top of pipe, 3.20 feet above lsd. Highest water level 19.80 below lsd, Aug. 16, 1960; lowest 34.60 below lsd, May 14, 1957. Records available: 1956-63.

Feb. 12	28.20	June 18	29.50	Oct. 14	25.10
Apr. 16	28.96	Aug. 13	24.13		

4-15-35cc. (MB) U.S.B.R. Drilled observation well in alluvium; diameter 1¼ inches, depth 39 feet. Measuring point, top of pipe, 2.50 feet above lsd. Highest water level 4.20 below lsd, Sept. 13, 1960; lowest 12.86 below lsd, May 14, 1957. Records available: 1956-63.

Feb. 12	7.85	June 18	8.68	Oct. 14	8.85
Apr. 16	8.33	Aug. 13	8.35		

5-13-4dc. (MB) Roy Eller. Dug, water-table domestic and stock well in alluvium; diameter 24 inches, depth 43 feet, cribbed with rock. Measuring point, west side of cement curb, 0.40 foot above lsd. Highest water level 10.78 below lsd, July 24, 1951; lowest 35.28 below lsd, Dec. 17, 1945. Records available: 1945-60, 1962. No measurement made in 1963.

5-13-22bb. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 24 feet. Measuring point, top of pipe, 2.70 feet above lsd. Highest water level 3.35 below lsd, Aug. 15, 1962; lowest 12.15 below lsd, Mar. 12, 1957. Records available: 1951-63. Apr. 17, 5.43; June 18, 5.40; Aug. 14, 4.43; Oct. 15, 5.50.

5-13-34cc. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 35 feet. Measuring point, top of pipe, 1.80 feet above lsd. Highest water level 8.69 below lsd, July 19, 1961; lowest 24.23 below lsd, June 20, 1957. Records available: 1951-61, 1963.

Feb. 14	10.42	June 20	10.60	Oct. 16	10.70
Apr. 17	10.50	Aug. 15	10.80		

5-13-35ad. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 29 feet. Measuring point, top of pipe, 1.60 feet above lsd. Highest water level 15.55 below lsd, Aug. 15, 1963; lowest 24.07 below lsd, Sept. 18, 1956. Records available: 1951-63.

Feb. 14	17.27	June 20	18.65	Oct. 16	15.70
Apr. 17	18.13	Aug. 15	15.55		

5-14-1da. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 38 feet. Measuring point, top of pipe, 4.10 feet above lsd. Highest water level 13.10 below lsd, Oct. 17, 1962; lowest 27.40 below lsd, Mar. 12, 1957. Records available: 1951-63.

Feb. 13	13.35	June 18	14.12	Oct. 15	13.30
Apr. 17	13.70	Aug. 14	13.97		

5-14-2ab. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter ¾ inch, depth 30 feet. Measuring point, top of pipe, 1.30 feet above lsd. Highest water level 9.47 below lsd, Sept. 18, 1957; lowest 22.25 below lsd, Apr. 18, 1957. Records available: 1951-60. No measurement made in 1963.

5-15-2dc. (MB) George K. Wamhoff. Drilled, unused, water-table well in terrace deposits of Pleistocene age; diameter 10 inches, depth 38 feet. Measuring point, top west side of board platform, 0.80 foot above lsd. Highest water level 23.95 below lsd, Oct. 22, 1951; lowest 33.84 below lsd, Nov. 30, 1948. Records available: 1945-60, 1962. No measurement made in 1963.

STAFFORD COUNTY

19. (C) Atlantic Refining Co. SE SE sec. 27, T 21 S, R 13 W. Drilled, unused, water-table well in sand and gravel of Pleistocene age; diameter 6 inches, depth 13 feet. Sand point driven in well pit, 0.20 foot below lsd. Highest water level 0.40 above lsd, Aug. 29, Sept. 20, 1950; lowest 11.04 below lsd, Aug. 1, 1942. Records available: 1942-63. Jan. 15, 7.18. Measurement discontinued.

19a. (C) Arthur Gates. SE SE sec. 27, T 21 S, R 13 W. Drilled, water-table observation well in sand and gravel of Pleistocene age; diameter 1¼ inches, depth 21 feet. Measuring point, top of pipe, 3.10 feet above lsd. Highest water level 7.29 below lsd, July 25, 1963; lowest 8.65 below lsd, Oct. 22, 1963. Records available: 1963.

May 16	7.91	June 24	8.12	Oct. 22	8.65
21	8.09	July 25	7.29	Dec. 16	8.62

22-13-29dal. (C) Mrs. L. C. Walls. Bored, water-table observation well in Ogallala Formation; diameter 1¼ inches, depth 30 feet. Measuring point, top of pipe, 2.47 feet above lsd. Highest water level 10.11 below lsd, Sept. 27, 1961; lowest 11.73 below lsd, Dec. 19, 1963. Records available: 1961-63.

Jan. 15	11.36	Apr. 22	11.44	Oct. 22	11.50
Feb. 20	10.40	July 25	10.73	Dec. 19	11.73
Mar. 29	11.38				

25-13-3bb. (C) M. L. Halley. Driven, unused, water-table well in sand and gravel of Pleistocene age; diameter 4 inches, depth 32 feet. Sand point driven in well pit, measuring point, 0.80 foot above lsd. Highest water level 2.75 below lsd, May 21, 1952; lowest dry, Aug. 15, Oct. 22, Nov. 20, 1956. Records available: 1951-63.

Jan. 16	15.57	Apr. 24	15.49	Oct. 23	16.92
Feb. 20	15.04	July 25	15.56	Dec. 19	16.78
Mar. 29	15.11				

STANTON COUNTY

13. (C) Leah Carrithers. NE NE SE sec. 21, T 27 S, R 40 W. Drilled, unused, water-table well in Ogallala Formation; diameter 5 inches, depth 85 feet. Measuring point, at lower north edge of board, 1.00 foot above lsd. Highest water level 43.48 below lsd, Nov. 6, 1958; lowest 51.83 below lsd, Apr. 3, 1940. Records available: 1939-63.

Feb. 6	50.28	Aug. 7	P	Dec. 9	51.54
May 15	50.88	Nov. 22	P		

93. (C) Glenn Arnold. Cen. NE sec. 11, T 29 S, R 41 W. Drilled, unused, water-table well in Ogallala Formation; diameter 8 inches, depth 234 feet. Measuring point, top south edge of casing, 1.00 foot above lsd. Highest water level 173.14 below lsd, Feb. 9, 1955; lowest 186.90 below lsd, Dec. 9, 1963. Records available: 1939-63. Feb. 6, 185.17; May 15, 185.27; Nov. 22, 185.20; Dec. 9, 186.90.

27-39-27bb. (C) M. P. Molz. Drilled, artesian irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 379 feet. Measuring point, hole in east side of steel pump base, 0.30 foot above lsd. Highest water level 78.41 below lsd, Jan. 30, 1959; lowest 133.32 below lsd, Nov. 22, 1963. Records available: 1958-63.

Feb. 6	92.90	Aug. 7	P	Dec. 9	116.81
May 15	P	Nov. 22	133.32		

27-42-31cc. (C) Earl Anderson. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age and Dakota Formation and Cheyenne Sandstone; diameter 16 inches, depth 400 feet. Measuring point, hole in east side of steel pump base, 1.00 foot above lsd. Highest water level 190.33 below lsd, Feb. 25, 1960; lowest 193.98 below lsd, Aug. 7, 1963. Records available: 1958-63.

Feb. 6	192.00	Aug. 7	193.98	Dec. 9	192.87
May 15	P	Nov. 22	P		

28-39-14bbl. (C) Herb Campbell. Drilled, unused, artesian well in deposits of Pliocene and Pleistocene age;

diameter 16 inches, depth 419 feet. Measuring point, top east side of casing, at land surface. Highest water level 84.10 below lsd, May 11, 1960; lowest 95.03 below lsd, Dec. 4, 1963. Records available: 1959-63.

May 15	90.45	Nov. 19	94.97	Dec. 24	94.71
Aug. 7	92.26	Dec. 4	95.03		

28-39-20bb. (C) Carl Levens. Drilled, water-table irrigation well in deposits of Pleistocene age; diameter 10 inches, depth 160 feet. Measuring point, lower edge of cutout on north side pump base, 1.80 feet above lsd. Highest water level 89.42 below lsd, Mar. 31, 1960; lowest 139.42 below lsd, Dec. 24, 1963. Records available: 1959-60, 1962-63.

1959					
Oct. 28	97.35	Nov. 1	P	Apr. 22	P
			13	May 21	P
Feb. 8	91.57	Dec. 6	128.3	June 17	136.40
Mar. 31	89.42	1963		July 5	138.22
		Jan. 3	122.31		31
		22	119.85	Sept. 6	P
Sept. 6	124.80	Feb. 14	118.62	Nov. 19	P
20	115.53	Mar. 20	114.10	Dec. 24	139.42
Oct. 11	124.51				

28-39-29cd. (C) Vivian Glenn. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 400 feet. Measuring point, top of southeast side of pump base, 0.50 foot above lsd. Highest water level 79.12 below lsd, May 28, 1958; lowest 122.40 below lsd, Nov. 22, 1963. Records available: 1958-63.

Feb. 6	94.07	Aug. 7	P	Dec. 9	116.67
May 15	P	Nov. 22	122.40		

29-39-6cc. (C) J. Julian. Drilled, water-table irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 435 feet. Measuring point, lower edge of cutout on northwest side of pump base, 1.35 feet above lsd. Highest water level 100.00* below lsd, Nov. 1955; lowest 139.15 below lsd, Nov. 19, 1963. Records available: 1955, 1959-60, 1962-63.

1955					
Nov. 1955	100.00*	Oct. 11	118.85	Apr. 22	P
		Nov. 1	118.15	May 21	P
1959		13	P	June 17	121.60
May 25	112.56	Dec. 6	P	July 5	129.33
Oct. 20	108.60	1963			31
		Jan. 3	121.87	Sept. 6	135.54
Mar. 31	105.67	22	114.47	Nov. 19	139.15
		Feb. 14	114.40	Dec. 24	124.61
1962		Mar. 20	120.05		
Sept. 6	128.36				
20	P				

* Measurement reported by owner.

29-39-24dd. (C) V. E. Ruth. Drilled, water-table irrigation well in deposits of Pleistocene age; diameter 16 inches, depth 314 feet. Measuring point, slanted pipe on east side of pump, 1.00 foot above lsd. Highest water level 63.00* below lsd, August 1948; lowest 78.85 below lsd, July 31, 1963. Records available: 1948, 1955, 1957-60, 1962-63.

STANTON COUNTY—concluded

1948				1963	
Aug.	63.00*	Aug. 10	67.00*	Jan. 3	76.52
1955		Oct. 28	67.85	22	74.84
Aug.	65.00*	1960		Feb. 14	74.62
1957		Feb. 8	67.95	Mar. 20	75.17
Nov.	67.00*	Mar. 31	67.65	Apr. 22	P
1958		1962		May 21	P
Jan.	68.00*	Sept. 6	75.45	June 17	78.35
Mar.	68.00*	20	P	July 5	P
Apr. 15	67.00*	Oct. 11	74.56	31	78.85
June 8	67.00*	Nov. 1	74.30	Sept. 6	P
July 30	67.00*	13	P	Oct. 16	78.10
1959		Dec. 6	75.00	Nov. 19	78.00
May 1	68.00*			Dec. 24	77.70

* Measurements reported by owner.

30-43-34bb. (C) W. T. Lauman. Drilled, artesian irrigation well in deposits of Pliocene and Pleistocene age; diameter 16 inches, depth 103 feet. Measuring point, hole in south side of pump base, 1.15 feet above lsd. Highest water level 45.72 below lsd, Dec. 4, 1958; lowest 73.25 below lsd, Oct. 7, 1963. Records available: 1958-63. Jan. 8, P; Apr. 17, P; July 17, P; Oct. 7, 73.25.

STEVENS COUNTY

31-35-19cc. (C) C. H. Bunton. Drilled, water-table irrigation well in Ogallala Formation; diameter 16 inches, depth 300+ feet. Measuring point, edge of 2-inch hole in NW side pump head base, 0.30 foot above lsd. Highest water level 178.57 below lsd, Aug. 12, 1963; lowest 192.60 below lsd, Nov. 14, 1962. Records available: 1962-63. 1962: Nov. 14, 192.60. 1963: Feb. 6, 179.20; June 12, 178.60; Aug. 12, 178.57; Nov. 22, P.

31-36-2cd. (C) Mrs. Earl Clark. Drilled, artesian irrigation well in deposits of Pliocene age; diameter 16 inches, depth 410 feet. Measuring point, lower edge of cutout on east side of steel pump base, 1.00 foot above lsd. Highest water level 140.50 below lsd, Mar. 21, 1960; lowest 154.98 below lsd, May 14, 1963. Records available: 1958-60, 1963. Feb. 6, 151.84; May 14, 154.98; Aug. 12, P; Nov. 22, P.

31-37-22bc. (C) Walter Crofts. Drilled domestic well in Ogallala Formation; diameter 6 inches, depth 258 feet. Measuring point, top of slit in cap on casing, 0.90 foot above lsd. Highest water level 121.67 below lsd, Jan. 14, 1963; lowest 143.37 below lsd, Aug. 22, 1960. Records available: 1956-63. Jan. 14, 121.67; Apr. 3, P; July 17, 132.93; Oct. 2, 127.31.

33-36-26dd. (C) R. Heger. Drilled irrigation well in Ogallala Formation; diameter 16 inches, depth 360 feet. Measuring point, top edge of hole in pump base, 0.50 foot above lsd. Highest water level 119.10 below lsd, Feb. 6, 1962; lowest 139.06 below lsd, May 7, 1959. Records available: 1942, 1944-47, 1953-63. Jan. 14, 123.25; Apr. 17, 128.34; July 17, 128.16; Oct. 2, 122.21.

33-38-20aa. (C) Forrest Farrar. Drilled domestic well in Ogallala Formation and deposits of Pleistocene age; diameter 5 inches, depth 112 feet. Measuring point, slit in steel plate over casing, 0.60 foot above lsd. Highest water level 73.03 below lsd, Oct. 7, 1963; lowest 97.29 below lsd, Apr. 7, 1956. Records available: 1956-63. Jan. 14, P; Apr. 17, 73.75; July 11, P; Oct. 7, 73.03.

33-38-20dd. (C) John R. Slemp. Drilled irrigation well in Ogallala Formation; diameter 16 inches, depth

405 feet. Measuring point, west lower edge of pump, 1.10 feet above lsd. Highest water level 126.32 below lsd, Feb. 13, 1961; lowest 131.00 below lsd, Apr. 18, 1959. Records available: 1959-63. Jan. 14, 127.47; Apr. 17, P; July 17, P; Oct. 7, P.

SUMNER COUNTY

1. (C) Fred Kersey. SE SW sec. 5, T 30 S, R 2 E. Bored observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 28 feet. Measuring point, top of pipe, 3.10 feet above lsd. Highest water level 8.61 below lsd, June 6, 1957; lowest 14.47 below lsd, Dec. 18, 1956. Records available: 1954-63. Mar. 22, 10.40; June 3, 10.65.

13. (C) M. C. Parker. SE SE sec. 7, T 30 S, R 2 E. Bored observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 30 feet. Measuring point, top of pipe, 3.30 feet above lsd. Highest water level 8.10 below lsd, Apr. 2, 1958; lowest 14.64 below lsd, Mar. 19, 1957. Records available: 1954-63. Mar. 22, 11.51; June 3, 11.85.

14. (C) M. C. Parker. SE SE sec. 7, T 30 S, R 2 E. Bored observation well in alluvium; diameter 1¼ inches, depth 27 feet. Measuring point, top of pipe, 3.30 feet above lsd. Highest water level 1.90 below lsd, Apr. 2, 1958; lowest 11.60 below lsd, Mar. 19, 1957. Records available: 1954-63. Mar. 22, 6.16; June 3, 6.14.

19. (C) Thomas Graber. NW SE sec. 17, T 30 S, R 2 E. Bored observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 29 feet. Measuring point, top of pipe, 1.60 feet above lsd. Highest water level 6.65 below lsd, June 6, 1957; lowest 12.18 below lsd, Sept. 13, 1956. Records available: 1954-63. Mar. 22, 9.71; June 3, 9.56.

21. (C) William Van Warmer. SW SE sec. 21, T 30 S, R 2 E. Bored observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 13 feet. Measuring point, top of pipe, 1.50 feet above lsd. Highest water level 2.55 below lsd, Apr. 2, 1958; lowest 6.70 below lsd, Mar. 19, 1957. Records available: 1954-63. Mar. 22, 4.36; June 3, 4.40.

23. (C) H. E. Zolter. SW SE sec. 18, T 30 S, R 2 E. Bored observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 26 feet. Measuring point, top of pipe, 3.80 feet above lsd. Highest water level 7.44 below lsd, Apr. 2, 1958; lowest 11.57 below lsd, Sept. 13, Dec. 19, 1956. Records available: 1954-63. Mar. 22, 9.52; June 3, 9.54.

24. (C) M. Carl. NE NE sec. 18, T 30 S, R 2 E. Bored observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 30 feet. Measuring point, top of pipe, 3.50 feet above lsd. Highest water level 8.17 below lsd, June 6, 1957; lowest 14.83 below lsd, Dec. 19, 1956. Records available: 1954-63. Mar. 22, 11.07; June 3, 10.92.

25. (C) Harold Martin. NE NW NE sec. 11, T 30 S, R 1 E. Bored observation well in terrace deposits of Pleistocene age; diameter 1¼ inches, depth 32 feet. Measuring point, top of pipe, 2.40 feet above lsd. Highest water level 8.93 below lsd, Dec. 28, 1961; lowest 13.43 below lsd, Dec. 19, 1956. Records available: 1954-63. Mar. 22, 10.45; June 3, 10.60.

THOMAS COUNTY

7. (C) City of Brewster. NW NE sec. 18, T 8 S, R 36 W. Drilled, unused, water-table well in Ogallala

Formation; diameter 6 inches, depth 138 feet. Measuring point, top west side of casing, 0.30 foot above lsd. Highest water level 122.99 below lsd, July 20, 1949; lowest 128.02 below lsd, Oct. 14, 1948. Records available: 1942-63.

Jan. 15	123.36	July 10	125.89	Dec. 19	123.90
Apr. 9	124.00	Oct. 15	125.44		

26. (C) Thomas A. Ryan. NE SE sec. 27, T 8 S, R 32 W. Drilled, unused, water-table well in Ogallala Formation; diameter 8 inches, depth 156 feet. Measuring point, top west side of casing, 0.60 foot above lsd. Highest water level 109.20 below lsd, Apr. 11, 1963; lowest 124.78 below lsd, Apr. 14, 1961. Records available: 1942-63.

Jan. 15	109.23	July 10	111.95	Dec. 18	109.31
Apr. 11	109.20	Oct. 15	109.11		

33. (C) Arch Ball. NW NW sec. 7, T 9 S, R 33 W. Drilled, unused, water-table well in Ogallala Formation; diameter 6 inches, depth 128 feet. Measuring point, top south edge of cylinder in motor block, 1.60 feet above lsd. Highest water level 114.24 below lsd, Oct. 25, 1954; lowest 120.30 below lsd, Apr. 14, 1949. Records available: 1942-52, 1954, 1956-63.

Jan. 15	115.20	July 10	115.02	Dec. 18	115.30
Apr. 11	115.17	Oct. 15	115.22		

6-34-17cb. (C) Conrad Dechert. Drilled, water-table irrigation well in Ogallala Formation; diameter 16 inches, depth 263 feet. Measuring point, hole in west side of pump base, 0.50 foot above lsd. Highest water level 151.35 below lsd, Apr. 10, 1963; lowest 156.80 below lsd, July 10, 1963. Records available: 1962-63.

Jan. 15	151.65	July 10	156.80	Dec. 18	151.85
Apr. 10	151.35	Oct. 15	152.50		

7-31-26cc. (C) Irene Rall. Drilled, water-table irrigation well in Ogallala Formation; diameter 14 inches, depth 176 feet. Measuring point, hole in inside ring of pump head base on the east side, 0.90 foot above lsd. Highest water level 102.49 below lsd, Jan. 15, 1963; lowest 103.25 below lsd, Sept. 13, 1962. Records available: 1962-63.

Jan. 15	102.49	July 10	103.14	Dec. 18	103.01
Apr. 11	102.55	Oct. 15	103.15		

7-36-17cc. (C) Ray H. Mayer. Drilled, water-table irrigation well in Ogallala Formation; diameter 18 inches, depth 225+ feet. Measuring point, hole in pump base, 1.00 foot above lsd. Highest water level 131.49 below lsd, Apr. 9, 1963; lowest 133.90 below lsd, Oct. 15, 1963. Records available: 1962-63.

Jan. 15	131.75	July 10	132.77	Dec. 18	132.65
Apr. 9	131.49	Oct. 15	133.90		

8-34-1ba. (C) U.S.D.A. and Kansas Agricultural Experiment Station. Drilled, unused, water-table well in Ogallala Formation; depth 160 feet. Measuring point, top of casing, 0.27 foot above lsd. Highest water level 112.31 below lsd, May 27, 1954; lowest 115.37 below lsd, Oct. 15, 1963. Records available: 1947-63. Recorder removed.

Jan. 15	114.05	Apr. 16	113.71	July 10	114.70
Feb. 13	113.92	19	113.82	Oct. 15	115.37
Mar. 13	113.95	May 3	114.08	Dec. 18	115.33
Apr. 11	113.83	13	114.25		

TREGO COUNTY

14-21-33bb. (MB) U.S.G.S. Jetted observation well in terrace deposits of Pleistocene age; diameter 3/4 inch, depth 27 feet. Measuring point, top of pipe, 2.65 feet above lsd. Highest water level 6.90 below lsd, Aug. 3, 1950; lowest 18.74 below lsd, June 8, 1956. Records available: 1950-63. Mar. 19, 14.27. Well destroyed.

14-21-33bcc. (MB) U.S.B.R. Drilled, water-table observation well in alluvium; diameter 1 1/4 inches, depth 21 feet. Measuring point, top of pipe, 2.30 feet above lsd. Highest water level 6.70 below lsd, Mar. 20, 1961; lowest 9.10 below lsd, May 13, 1963. Records available: 1961, 1963.

1961					
Mar. 20	6.70	Mar. 15	9.00	Sept. 9	8.50
July 7	7.90	May 13	9.10	17	8.75
Nov. 13	8.00	June 5	8.73	Dec. 10	9.08
1963		July 23	8.40		
Jan. 16	8.30	Aug. 13	8.20		

14-22-26add. (MB) U.S.B.R. Drilled, water-table observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 74 feet. Measuring point, top of pipe, 2.30 feet above lsd. Highest water level 16.49 below lsd, Apr. 13, 1962; lowest 19.27 below lsd, June 5, 1963. Records available: 1962-63. Mar. 19, 17.79; June 5, 19.27; Sept. 17, 18.86; Dec. 10, 18.04.

14-22-36aa. (MB) U.S.G.S. Drilled, water-table observation well in terrace deposits of Pleistocene age; diameter 1 1/4 inches, depth 64 feet. Measuring point, top of pipe, 1.40 feet above lsd. Highest water level 26.82 below lsd, Dec. 5, 1960; lowest 43.11 below lsd, Mar. 16, 1950. Records available: 1949-54, 1956-63. Mar. 19, 27.05; June 5, 27.20; Sept. 17, 27.45; Dec. 10, 27.10.

WALLACE COUNTY

12-40-14bba. (C) W. P. Kirkham. Drilled, unused, water-table well in Ogallala Formation; diameter 6 inches, depth 24 feet. Measuring point, top north side of casing under tin cover, 1.60 feet above lsd. Highest water level 19.72 below lsd, July 20, 1949; lowest 21.84 below lsd, Oct. 25, 1954. Records available: 1948-63. Jan. 14, 20.57; Apr. 9, 20.59. Measurement discontinued.

15-38-28db. (C) Selma Nelson. Drilled, water-table irrigation well in Ogallala Formation; diameter 18 inches, depth 200 feet. Measuring point, hole in west side of pump base, 0.30 foot above lsd. Highest water level 85.40 below lsd, Oct. 7, 1960; lowest 98.56 below

WALLACE COUNTY—concluded

lsd, Dec. 6, 1963. Records available: 1960-63. 1960: Oct. 7, 85.40. 1961: Dec. 26, 90.59. 1963: Feb. 4, 90.14; May 13, P; Aug. 5, P; Dec. 6, 98.56.

15-39-2bc. (C) Frazier Farms. Drilled, water-table irrigation well in Ogallala Formation; diameter 30 inches, depth 195 feet. Measuring point, hole in southwest side of pump, 0.20 foot above lsd. Highest water level 112.02 below lsd, June 23, 1958; lowest 119.61 below lsd, Feb. 4, 1963. June 23, 1958 measurement of 112.02 erroneously reported previously as June 23, 1962. Records available: 1958, 1962-63. Feb. 4, 119.61; May 13, P; Aug. 5, P; Dec. 6, P.

15-40-2bb. (C) Owner unknown. Drilled, unused, water-table well in Ogallala Formation; diameter 5 inches, depth 112 feet. Measuring point, hole in west side of pump, 1.60 feet above lsd. Highest water level 86.68 below lsd, Mar. 31, 1959; lowest 90.04 below lsd, Dec. 6, 1963. Records available: 1958-63. Feb. 4, 88.59; May 13, 88.60; Aug. 5, 88.90; Dec. 6, 90.04.

WICHITA COUNTY

16-35-20cc. (C) F. F. Miller. Drilled, water-table irrigation well in Ogallala Formation; diameter 18 inches, depth 186 feet. Measuring point, hole in base of pump, 0.50 foot above lsd. Highest water level 103.24 below lsd, May 7, 1951; lowest 124.25 below lsd, Dec. 6, 1963. Records available: 1951, 1953-63. Feb. 4, 118.56; May 13, 123.17; Aug. 5, P; Dec. 6, 124.25.

16-37-13bb. (C) C. Pearson. Drilled, water-table irrigation well in Ogallala Formation; depth 136 feet. Measuring point, hole in west side of pump base, at land surface. Highest water level 77.65 below lsd, June 14, 1951; lowest 91.93 below lsd, Oct. 6, 1955. Records available: 1951, 1953-63. Feb. 4, 86.44; May 13, 90.36; Aug. 5, P; Dec. 6, 90.45.

16-37-30ac. (C) H. E. Thurston. Drilled, water-table irrigation well in Ogallala Formation; diameter 18 inches, depth 220 feet. Measuring point, hole in west side of pump base, 0.30 foot above lsd. Highest water level 98.58 below lsd, Mar. 28, 1960; lowest 118.93 below lsd, Dec. 6, 1963. Records available: 1959-63. Feb. 4, 107.21; May 13, P; Aug. 5, P; Dec. 6, 118.93.

18-35-14dc. (C) A. H. Conrady. Drilled, water-table irrigation well in Ogallala Formation; diameter 16 inches, depth 139 feet. Measuring point, hole in north side of pump base, 0.40 foot above lsd. Highest water level 79.74 below lsd, Apr. 11, 1951; lowest 97.93 below lsd, Sept. 13, 1961. Records available: 1951, 1958-63. May 19, P; June 5, 94.45; Sept. 4, P; Nov. 21, P.

18-37-21bb. (C) Ruth Gibson. Drilled, water-table irrigation well in Ogallala Formation; diameter 16 inches, depth 195 feet. Measuring point, edge of 1-inch hole in southwest side of pump base, 0.30 foot above lsd. Highest water level 98.26 below lsd, Feb. 20, 1962; lowest 114.13 below lsd, Mar. 19, 1963. Records available: 1962-63. Mar. 19, 114.13; June 5, 106.68; Sept. 4, P; Nov. 21, P.

20-36-14dad. (C) Elmer Hartman. Drilled, unused, water-table well in Ogallala Formation; diameter 6 inches, depth 116 feet. Measuring point, top of casing, 0.50 foot above lsd. Highest water level 93.95 below lsd, Dec. 13, 1960; lowest 97.35 below lsd, Apr. 26, 1950. Records available: 1947-61. Measurement discontinued.

20-36-14dal. (C) Elmer Hartman. Drilled, water-table observation well in Ogallala Formation, diameter 6 inches, depth 108 feet. Measuring point, top of casing, 0.50 foot above lsd. Highest water level 94.34 below lsd, Nov. 21, 1963; lowest 94.48 below lsd, June 5, 1963. Records available: 1962-63. 1962: Dec. 12, 94.40. 1963: May 19, 94.35; June 5, 94.48; Sept. 4, 94.42; Nov. 21, 94.34.

WOODSON COUNTY

25-16-11ddd. (C) John Yohon. Dug, unused, water-table well in Upper Pennsylvanian Stanton Limestone; diameter 5 feet, depth 20 feet, cribbed with rock. Measuring point, top north side of hole in concrete, 1.10 feet above lsd. Highest water level 4.36 below lsd, Aug. 2, 1951; lowest 14.26 below lsd, Nov. 3, 1956. Records available: 1948-52, 1956-57. Measurement discontinued.

BIBLIOGRAPHY

- ABERNATHY, G. E., 1941, Ground-water resources of Mississippian and older rocks in Bourbon, Crawford, Cherokee, and Labette counties, southeastern Kansas: Kansas Geol. Survey Bull. 38, pt. 8, p. 221-236, 1 fig.
- , 1943, Deep water well at the Jayhawk Ordnance Works in Cherokee County, Kansas: Kansas Geol. Survey Bull. 47, pt. 3, p. 77-112, 4 fig.
- BAYNE, C. K., 1956, Geology and ground-water resources of Sheridan County, Kansas: Kansas Geol. Survey Bull. 116, 94 p., 5 pl., 10 fig.
- , 1956, Geology and ground-water resources of Reno County, Kansas: Kansas Geol. Survey Bull. 120, 130 p., 3 pl., 23 fig.
- , 1958, Ground-water resources of Elk County, Kansas: Kansas Geol. Survey, v. 14, pt. 3, p. 37-56, 3 pl., fig. 9-11.
- , 1960, Geology and ground-water resources of Harper County, Kansas: Kansas Geol. Survey Bull. 143, 180 p., 5 pl., 17 fig.
- , 1962, Geology and ground-water resources of Cowley County, Kansas: Kansas Geol. Survey Bull. 158, 219 p., 11 pl., 8 fig.
- , and Walters, K. L., 1959, Geology and ground-water resources of Cloud County, Kansas, with a section on ceramic materials by Norman Plummer: Kansas Geol. Survey Bull. 139, 152 p., 3 pl., 23 fig.
- BECK, H. V., 1959, Geology and ground-water resources of Kansas River valley between Wamego and Topeka vicinity: Kansas Geol. Survey Bull. 135, 88 p., 8 pl., 12 fig.
- BERRY, D. W., 1952, Geology and ground-water resources of Lincoln County, Kansas: Kansas Geol. Survey Bull. 95, 96 p., 7 pl., 12 fig.
- BRADLEY, EDWARD, and JOHNSON, C. W., 1957, Ground-water resources of the Ladder Creek area in Kansas, with a section on the chemical quality of water by Robert A. Krieger: Kansas Geol. Survey Bull. 126, 194 p., 14 pl., 21 fig.
- BROEKER, M. E., and FISHEL, V. C., 1961, Ground-water levels in observation wells in Kansas, 1960: Kansas Geol. Survey Bull. 153, 183 p., 27 fig.
- , ———, 1962, Ground-water levels in observation wells in Kansas, 1961: Kansas Geol. Survey Bull. 159, 166 p., 28 fig.
- , and WINSLOW, J. D., 1963, Ground-water levels in observation wells in Kansas, 1962: Kansas Geol. Survey Bull. 167, 89 p., 23 fig.
- BYRNE, F. E., and McLAUGHLIN, T. G., 1947, Geology and ground-water resources of Seward County, Kansas: Kansas Geol. Survey Bull. 69, 140 p., 12 pl., 10 fig.
- DARTON, N. H., 1905, Preliminary report on the geology and underground water resources of the central Great Plains: U.S. Geol. Survey Prof. Paper 32, 433 p., 72 pl.
- DAVIS, S. N., and CARLSON, W. A., 1952, Geology and ground-water resources of the Kansas River valley between Lawrence and Topeka, Kansas: Kansas Geol. Survey Bull. 96, pt. 5, p. 201-276, 7 pl., 8 fig.
- DUFFORD, A. E., 1958, Quaternary geology and ground-water resources of Kansas River valley between Bonner Springs and Lawrence, Kansas: Kansas Geol. Survey Bull. 130, pt. 1, 96 p., 8 pl., 10 fig.
- FADER, S. W., GUTENTAG, E. D., LOBMEYER, D. H., and MEYER, W. R., 1964, Geohydrology of Grant and Stanton counties, Kansas: Kansas Geol. Survey Bull. 168, in press.
- FENT, O. S., 1950, Geology and ground-water resources of Rice County, Kansas: Kansas Geol. Survey Bull. 85, 142 p., 11 pl., 11 fig.
- FISHEL, V. C., 1947, Ground-water resources of Kansas: Kansas Acad. Sci. Trans., v. 50, no. 2, p. 105-114, 3 fig.
- , 1948, Ground-water resources of the Kansas City, Kansas, area: Kansas Geol. Survey Bull. 71, 107 p., 3 pl., 12 fig.
- , 1948, Geology and ground-water resources of Republic County and northern Cloud County, Kansas: Kansas Geol. Survey Bull. 73, 194 p., 12 pl., 6 fig.
- , 1952, Ground-water resources of Pawnee Valley, Kansas: Kansas Geol. Survey Bull. 94, 144 p., 6 pl., 12 fig.
- , 1956, Long-term trends of ground-water levels in the United States: Am. Geophys. Union Trans., v. 37, no. 4, p. 429-435, 7 fig.
- , and BROEKER, M. E., 1960, Ground-water levels in observation wells in Kansas, 1959: Kansas Geol. Survey Bull. 146, 174 p., 25 fig.
- , GULLEY, E. L., and REAVIS, E. L., 1959, Ground-water levels in observation wells in Kansas, 1958: Kansas Geol. Survey Bull. 141, 146 p., 24 fig.

- , and LEONARD, A. R., 1956, Geology and ground-water resources of Jewell County, Kansas: Kansas Geol. Survey Bull. 115, 152 p., 12 pl., 24 fig.
- , and MASON, B. J., 1957, Ground-water levels in observation wells in Kansas, 1956: Kansas Geol. Survey Bull. 125, 158 p., 22 fig.
- , 1958, Ground-water levels in observation wells in Kansas, 1957: Kansas Geol. Survey Bull. 131, 152 p., 24 fig.
- , and others, 1953, Water resources of the Kansas City area, Missouri and Kansas: U.S. Geol. Survey Circ. 273, 52 p., 2 pl., 28 fig.
- FRYE, J. C., 1940, A preliminary report on the water supply of the Meade Artesian Basin, Meade County, Kansas: Kansas Geol. Survey Bull. 35, 39 p., 5 pl., 7 fig.
- , 1941, Reconnaissance of ground-water resources of Atchison County, Kansas: Kansas Geol. Survey Bull. 38, pt. 9, p. 238-260, 3 pl., 6 fig.
- , 1942, Geology and ground-water resources of Meade County, Kansas: Kansas Geol. Survey Bull. 45, 152 p., 12 pl., 13 fig.
- , 1945, Geology and ground-water resources of Thomas County, Kansas: Kansas Geol. Survey Bull. 59, 110 p., 6 pl., 13 fig.
- , and BRAZIL, J. J., 1943, Ground water in the oil-field areas of Ellis and Russell counties, Kansas: Kansas Geol. Survey Bull. 50, 104 p., 2 pl., 9 fig.
- , and FISHEL, V. C., 1949, Ground water in southwestern Kansas: Misc. Pub., 24 p., 2 pl., 5 fig.
- , and LEONARD, A. R., 1949, Geology and ground-water resources of Norton County and northwestern Phillips County, Kansas: Kansas Geol. Survey Bull. 81, 144 p., 10 pl., 11 fig.
- , and WALTERS, K. L., 1950, Subsurface reconnaissance of glacial deposits in northeastern Kansas: Kansas Geol. Survey Bull. 86, pt. 6, p. 141-158, 2 pl.
- HAWORTH, ERASMUS, 1913, Special report on well waters in Kansas: Univ. Geol. Survey of Kansas Bull. 1, 110 p., 4 pl., 9 fig.
- HODSON, W. G., 1959, Geology and ground-water resources of Mitchell County, Kansas: Kansas Geol. Survey Bull. 140, 132 p., 9 pl., 17 fig.
- , 1963, Geology and ground-water resources of Wallace County, Kansas: Kansas Geol. Survey Bull. 161, 108 p., 3 pl., 22 fig.
- , and WAHL, K. D., 1960, Geology and ground-water resources of Gove County, Kansas: Kansas Geol. Survey Bull. 145, 126 p., 6 pl., 18 fig.
- JOHNSON, C. R., 1958, Geology and ground-water resources of Logan County, Kansas: Kansas Geol. Survey Bull. 129, 175 p., 9 pl., 12 fig.
- JONES, J. O., 1936, Notes on the hydrology of Kansas: Kansas Univ., Engr. Bull. 20, 175 p., 31 pl., 52 fig.
- JONES, O. S., 1938, Chloride survey in the north portion of Wichita, Kansas: Kansas State Bd. Health, 7 p., 3 fig.
- , 1945, Disposition of oil-field brines: Univ. of Kansas Press, Lawrence, 192 p.
- LANE, C. W., 1960, Geology and ground-water resources of Kingman County, Kansas: Kansas Geol. Survey Bull. 144, 174 p., 3 pl., 13 fig.
- LATTA, B. F., 1941, Geology and ground-water resources of Stanton County, Kansas: Kansas Geol. Survey Bull. 37, 119 p., 9 pl., 6 fig.
- , 1944, Geology and ground-water resources of Finney and Gray counties, Kansas: Kansas Geol. Survey Bull. 55, 272 p., 12 pl., 21 fig.
- , 1948, Geology and ground-water resources of Kiowa County, Kansas: Kansas Geol. Survey Bull. 65, 151 p., 11 pl., 10 fig.
- , 1948, Ground-water supplies at Hays, Victoria, Walker, Gorham, and Russell, Kansas, with special reference to future needs: Kansas Geol. Survey Bull. 76, pt. 6, p. 125-196, 8 fig.
- , 1949, Ground-water conditions in the Smoky Hill valley in Saline, Dickinson, and Geary counties, Kansas: Kansas Geol. Survey Bull. 84, 152 p., 6 pl., 13 fig.
- , 1950, Geology and ground-water resources of Barton and Stafford counties, Kansas: Kansas Geol. Survey Bull. 88, 228 p., 11 pl., 18 fig.
- LEONARD, A. R., 1952, Geology and ground-water resources of the North Fork Solomon River in Mitchell, Osborne, Smith, and Phillips counties, Kansas: Kansas Geol. Survey Bull. 98, 150 p., 10 pl., 18 fig.
- , and BERRY, D. W., 1961, Geology and ground-water resources of southern Ellis County and parts of Trego and Rush counties, Kansas: Kansas Geol. Survey Bull. 149, 156 p., 9 pl., 20 fig.
- LOHMAN, S. W., 1941, Ground-water conditions in the vicinity of Lawrence, Kansas: Kansas Geol. Survey Bull. 38, pt. 2, 64 p., 2 pl., 6 fig.

- , 1942, Ground-water supplies available for national defense industries in south-central Kansas: Kansas Geol. Survey Bull. 41, pt. 1, 19 p., 5 fig.
- , and BURTIS, V. M., 1953, Areas of principal ground-water investigations in the Arkansas, White, and Red River Basins: U.S. Geol. Survey Hydrologic Atlas 2.
- , ———, 1953, General availability of ground-water and depths to water level in the Arkansas, White, and Red River Basins: U.S. Geol. Survey Hydrologic Atlas 3.
- , and FRYE, J. C., 1940, Geology and ground-water resources of the "Equus beds" area in south-central Kansas: Econ. Geology, v. 35, no. 7, p. 839-866, 5 fig.
- , FRYE, J. C., WAITE, H. A., FISHEL, V. C., McLAUGHLIN, T. G., LATTA, B. F., and ABERNATHY, G. E., 1942, Ground-water supplies in Kansas available for national defense industries: Kansas Geol. Survey Bull. 41, pt. 2, p. 21-68, 4 pl., 3 fig.
- MACK, L. E., 1957, Evaluation of a conducting-paper analog field plotter as an aid in solving ground-water problems: Kansas Geol. Survey Bull. 127, pt. 2, p. 25-47, 1 pl., 9 fig.
- , 1962, Geology and ground-water resources of Ottawa County, Kansas: Kansas Geol. Survey Bull. 154, 145 p., 8 pl., 35 fig.
- McLAUGHLIN, T. G., 1942, Geology and ground-water resources of Morton County, Kansas: Kansas Geol. Survey Bull. 40, 126 p., 9 pl., 6 fig.
- , 1943, Geology and ground-water resources of Hamilton and Kearny counties, Kansas: Kansas Geol. Survey Bull. 49, 220 p., 17 pl., 18 fig.
- , 1946, Geology and ground-water resources of Grant, Haskell, and Stevens counties, Kansas: Kansas Geol. Survey Bull. 61, 221 p., 12 pl., 18 fig.
- , 1949, Geology and ground-water resources of Pawnee and Edwards counties, Kansas: Kansas Geol. Survey Bull. 80, 189 p., 9 pl., 12 fig.
- MEINZER, O. E., 1914, Preliminary report on ground water for irrigation in the vicinity of Wichita, Kansas: U.S. Geol. Survey Water-Supply Paper 345, 9 p.
- MOORE, R. C., 1940, Ground-water resources of Kansas: Kansas Geol. Survey Bull. 27, 112 p., 34 pl., 28 fig.
- O'CONNOR, H. G., 1951, Pt. 3, Ground-water resources of Chase County *in* Geology, mineral resources, and ground-water resources of Chase County, Kansas: Kansas Geol. Survey, v. 11, p. 28-49, 2 pl., 1 fig.
- , 1953, Pt. 3, Ground-water resources of Lyon County *in* Geology, mineral resources, and ground-water resources of Lyon County, Kansas: Kansas Geol. Survey, v. 12, p. 35-59, 1 pl., 1 fig.
- , 1955, Pt. 3, Ground-water resources of Osage County *in* Geology, mineral resources, and ground-water resources of Osage County, Kansas: Kansas Geol. Survey, v. 13, p. 28-49, 1 pl., 1 fig.
- , 1960, Geology and ground-water resources of Douglas County, Kansas: Kansas Geol. Survey Bull. 148, 200 p., 9 pl., 10 fig.
- PARKER, H. N., 1911, Quality of water supplies of Kansas: U.S. Geol. Survey Water-Supply Paper 273, 375 p., 1 pl.
- PRESCOTT, G. C., JR., 1951, Geology and ground-water resources of Lane County, Kansas: Kansas Geol. Survey Bull. 93, 126 p., 8 pl., 10 fig.
- , 1953, Geology and ground-water resources of Cheyenne County, Kansas: Kansas Geol. Survey Bull. 100, 106 p., 8 pl., 10 fig.
- , 1953, Geology and ground-water resources of Sherman County, Kansas: Kansas Geol. Survey Bull. 105, 130 p., 11 pl., 12 fig.
- , 1955, Geology and ground-water resources of Graham County, Kansas: Kansas Geol. Survey Bull. 110, 98 p., 10 pl., 7 fig.
- , BRANCH, J. R., and WILSON, W. W., 1954, Geology and ground-water resources of Wichita and Greeley counties, Kansas: Kansas Geol. Survey Bull. 108, 134 p., 7 pl., 13 fig.
- STRAMEL, G. J., 1956, Progress report on the ground-water hydrology of the Equus-beds area, Kansas: Kansas Geol. Survey Bull. 119, pt. 1, 59 p., 1 pl., 31 fig.
- , 1957, The hydraulic properties of the Ordovician rocks at Pittsburg, Kansas: Kansas Geol. Survey Bull. 127, pt. 5, p. 153-178, 6 fig.
- , LANE, C. W., and HODSON, W. G., 1958, Geology and ground-water hydrology of the Ingalls area, Kansas: Kansas Geol. Survey Bull. 132, 154 p., 3 pl., 34 fig.
- U.S. GEOLOGICAL SURVEY. Ground-water levels in the United States: Published for each year 1935-56, inclusive, as Water-Supply Papers. (See Table 1, page 3.)
- U.S. DEPT. COMMERCE, WEATHER BUREAU, 1964, Climatological data, Kansas: annual summary 1963: v. 77, no. 13.
- WAITE, H. A., 1942, Geology and ground-water resources of Ford County, Kansas: Kansas Geol. Survey Bull. 43, 250 p., 16 pl., 22 fig.

- , 1947, Geology and ground-water resources of Scott County, Kansas: Kansas Geol. Survey Bull. 66, 216 p., 16 pl., 16 fig.
- WALTERS, K. L., 1953, Geology and ground-water resources of Jackson County, Kansas: Kansas Geol. Survey Bull. 101, 90 p., 10 pl., 9 fig.
- , 1954, Geology and ground-water resources of Marshall County, Kansas: Kansas Geol. Survey Bull. 106, 116 p., 7 pl., 7 fig.
- , 1956, Geology and ground-water resources of Rawlins County, Kansas: Kansas Geol. Survey Bull. 117, 100 p., 6 pl., 12 fig.
- , 1961, Geology and ground-water resources of Sumner County, Kansas: Kansas Geol. Survey Bull. 151, 210 p., 4 pl., 11 fig.
- , and BAYNE, C. K., 1959, Geology and ground-water resources of Clay County, Kansas: Kansas Geol. Survey Bull. 136, 106 p., 7 pl., 14 fig.
- WILLIAMS, C. C., 1944, Ground-water conditions in the Neosho River valley in the vicinity of Parsons, Kansas: Kansas Geol. Survey Bull. 52, pt. 2, p. 33-80, 3 pl., 9 fig.
- , 1946, Ground-water conditions in Arkansas River valley in the vicinity of Hutchinson, Kansas: Kansas Geol. Survey Bull. 64, pt. 5, p. 149-216, 6 pl., 11 fig.
- , 1948, Contamination of deep water wells in southeastern Kansas: Kansas Geol. Survey Bull. 76, pt. 2, p. 13-28, 3 fig.
- , and BAYNE, C. K., 1946, Ground-water conditions in Elm Creek valley, Barber County, Kansas: Kansas Geol. Survey Bull. 64, pt. 3, p. 81-124, 2 pl., 9 fig.
- , and LOHMAN, S. W., 1947, Methods used in estimating the ground-water supply in the Wichita, Kansas, well-field area: Am. Geophys. Union Trans., v. 27, no. 6, p. 120-131, 10 fig.
- , ———, 1949, Geology and ground-water resources of a part of south-central Kansas with special reference to the Wichita municipal water supply: Kansas Geol. Survey Bull. 79, 455 p., 34 pl., 31 fig.
- WINSLOW, J. D., NUZMAN, C. E., and FADER, S. W., 1964, Water-level changes in Grant and Stanton counties, 1939-1964: Kansas Geol. Survey Spec. Distrib. Pub. no. 10, 11 p., 9 fig.