



Technical Series 9

January 1996 Kansas Water Levels and Data Related to Water-level Changes

John J. Woods and Jeffrey A. Schloss



Kansas Geological Survey

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ACKNOWLEDGMENTS

We would like to express our gratitude to Marla Adkins-Heljeson, Jennifer Sims, Liz Brosius, Janice Sorensen, Melanie Miller, and Mark Shoneweis for their assistance in the creating and editing of various portions of this document.

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Abstract

Water levels measured in January 1996 showed the effects of the increase in annual precipitation over most of Kansas during 1995. The 1996 sample exhibited an average water-level decline of 0.5 ft (15 cm) since the 1995 measurements compared to 1.7 ft (52 cm) during the 1994-95 period. This is probably because of an increase in recharge since the 1995 measurements. The single largest rise in water level was 20.0 ft (6.10 m), and the largest decline was 20.2 ft (6.16 m). Annual water-level declines outnumbered rises 54% to 46% for wells in this report. Regional breakdowns of the data indicate a strong trend of water-level increase in areas where the water table is shallow and irrigation pumpage is low and a continuing trend of water-level decline where the water table is deep and irrigation pumping is appreciable. There are small areas of sharp decline despite increases in average 1995 precipitation for the region. The greatest change (from decline to rise) occurred in the northern, central, and eastern portions of region V (south-central Kansas).

Introduction

In this report we summarize hydrologic data from the cooperative program of ground-water measurements in Kansas. This program is carried out jointly by the Kansas Geological Survey, the Division of Water Resources (Kansas Department of Agriculture), and the U.S. Geological Survey, and involves water-level measurements on a network of approximately 1,500 monitoring wells. A compilation of water-resources data is published annually on a water-year basis by the U.S. Geological Survey (see the list of references in appendix A). This Kansas Geological Survey report presents the annual water-level data in the context of both recent and long-term water-level changes to provide information on the water resources of the state.

Appendix A is a list of publications containing ground-water-level data for Kansas. The data tables of appendix B contain the primary information on well locations and characteristics, past and present water-level

measurements, other information on water resources, trends in the measurements, and the amounts and types of information available for each well. To make this information more understandable, we provide in the text that follows some basic definitions and descriptions of the occurrence of ground water in Kansas, a discussion of the relationship between precipitation and ground water, and tables and maps summarizing the long- and short-term changes in water levels in selected areas of the state. Appendix C lists those wells previously reported that are not contained in this report because of a lack of recent data. Wells that have not been measured for three consecutive years or wells that have been taken out of service have been eliminated from this report.

Information in this report is generalized and regional in nature and should not be used in lieu of site-specific data collection for decisions concerning local ground-water conditions.

Data-collection program

Most of the wells in the program are measured annually, some are measured quarterly, and a few are equipped with continuous recorders. For continuously recorded wells, depth-to-water values are picked from the record at specific intervals, typically monthly. Because many of the wells are irrigation wells or are in areas of major irrigation pumpage, the annual measurement program is timed for mid-winter to maximize the recovery of water levels from seasonal pumping. The nominal time of measurement is January, but for logistical reasons some of the wells are measured in December of the preceding year or in February. Because of this, the current water-level report presents data collected before the irrigation season of the present year and includes measurements taken from December through February. In previous reports, March measurements have been used for some quarterly wells.

Ideally, the data should provide a snapshot of regional water levels undisturbed by pumping or other factors. In

practice, it is physically impossible to measure all wells at exactly the same time. In addition, recovery of local water levels from pumping depends on several factors. These include the local hydrogeology, the schedule of pumping, and the volume of irrigation water pumped during the preceding season. Because irrigation varies from year to year, successive measurements at the same time of year may represent differing degrees of water-table recovery. Other factors can also influence the apparent water levels; for example, the effects of barometric-pressure changes or the method of measurement. An apparent change in water level for a particular well during a one-year period may reflect temporary deviations from the fully equilibrated water table. Because of these uncertainties, any assessment of trends should be based on a comparison of changes that occur over a period of several years or that emerge as a consistent pattern across a number of wells.

Aquifers and ground-water occurrence

Rock or sediment formations that have a sufficiently large number of interconnected pores to contain usable amounts of extractable water are called aquifers. In Kansas most of the major aquifers occur in the western and south-central portions of the state. Because these areas receive relatively little rainfall, ground water is extensively used. Fewer ground-water resources are found in eastern Kansas, and surface water is used for many water supplies. For a general overview of the aquifers in Kansas, we refer readers to *Kansas Ground Water*, Educational Series 10, published by the Kansas Geological Survey in 1993.

Aquifers can be identified in various ways. In this report the tables in appendix B contain a geologic designation for up to three aquifer units. These identify the age and often the name of the formation(s). Geologic unit code designations used in this report are listed below. Aquifers are more commonly known by popular or geographic names. For example, the major Kansas aquifer system is known as the High Plains aquifer, which is composed of the Ogallala Formation in western Kansas and the Great Bend Prairie and Equus Beds alluvial (streambed) deposits in south-central Kansas. Throughout Kansas, stream and

river systems flow over alluvial deposits that may be locally important sources of ground water; however, these deposits are often so closely connected to the surface-water flows that in many cases the adjacent alluvial ground water should probably be treated as part of the river.

Water enters an aquifer through the process of recharge, which is the percolation of water through the soil zone from rainfall or water bodies at the earth's surface. This process may take years or decades in deep aquifers (such as much of the Ogallala aquifer), but shallow water tables in permeable sediments may respond promptly to rainfall or streamflow (e.g., many alluvial aquifers). If ground water is pumped from an aquifer faster than the natural recharge process, the elevation of the water table will decline. Hydrographs are plots of the water level in a given well as a function of time; they can be used to portray both long-term changes in ground-water resources and short-term fluctuations resulting from recharge or withdrawal. In the next section we present several representative well hydrographs and local rainfall records for various aquifers and geographic regions.

For this report, the state is divided into eight ground-water regions (fig. 1). Regional tables and maps depict ground-water-level changes in the major aquifers of the central and western parts of the state. Regions I, II, and III cover the Ogallala aquifer and coincide approximately with the areas of Groundwater Management Districts 3, 1, and 4, respectively. Region V covers the Great Bend Prairie and Equus Beds aquifers and is roughly coincident with the combined areas of Groundwater Management Districts 5 and 2. No tables or maps are included for the remaining four regions because they contain fewer wells and no laterally extensive major aquifers.

Geologic unit designations

Symbol	Description
KJ	undifferentiated Lower Cretaceous/Upper Jurassic rocks
KD	Dakota Formation (Cretaceous)
KN	Niobrara Chalk (Cretaceous)
KU	undifferentiated Lower Cretaceous rocks
TO	Ogallala Formation (Tertiary)
QA	Quaternary alluvium
QU	undifferentiated Quaternary deposits

next year's water level than a single storm event closer in time to the water-level measurement.

Some of the graphs in figs. 2–8 display discontinuous lines. The breaks indicate years during which the data-collecting agencies encountered sampling problems, resulting in no data having been reported in the selected time interval. No attempt is made to connect these data points because of the variable and seasonal nature of the natural processes. Lines joining two points do not accurately represent the behavior of the water table between sampling observations. In all of the hydrographs, measurements were plotted only from the months of December or January.

Douglas County, Pleistocene terrace deposits (QU)

The observation well in fig. 2, for Douglas County, is located in an alluvial aquifer. In this area, alluvial deposits are the primary geologic unit for water usage; they yield water of moderate quality and quantity. The alluvium consists of unconsolidated clay, sand, and gravel located along major stream courses. The thickness of the alluvial deposits varies because the streams downcut into the substrata before depositing their sediment load.

The hydrograph of well 12S20E07CBC01 (fig. 2) illustrates a relatively prompt response of the water table to precipitation. This is probably because of the shallow depth of the water table, the types of sediment through which the water moves, and the small volume of ground water pumped in the area.

Finney County, deposits of Quaternary age (QU)

Most of the observation wells in Finney County are within the Ogallala Formation (Tertiary) or in undifferentiated Quaternary deposits. Well 24S32W03DAC01, which is usually used for this hydrograph, has not been sampled in recent surveys (see Appendix C) and has been replaced with a similar well, 24S33W28DAA01 (fig. 3). The depth to bedrock (bottom of the aquifer) at this well is 386 ft (118 m), and the formation consists of poorly consolidated sand and gravel of Pleistocene age.

The depth to water for 1996 is 105.0 ft (32.00 m). Compared to the 1940 depth to water [34 ft (10 m)] (appendix B, Finney County, table 1), the decline of 71.0 ft (21.6 m) represents a decrease of just over 20% in saturated thickness. Changes in saturated thickness of this magnitude or greater for the period 1940–1996 are typical of both the Pleistocene and the Ogallala aquifers in Finney County.

Figure 3 illustrates the lack of effect of precipitation recharge on the water table in the Pleistocene aquifer and the prominent effect of ground-water pumping on the

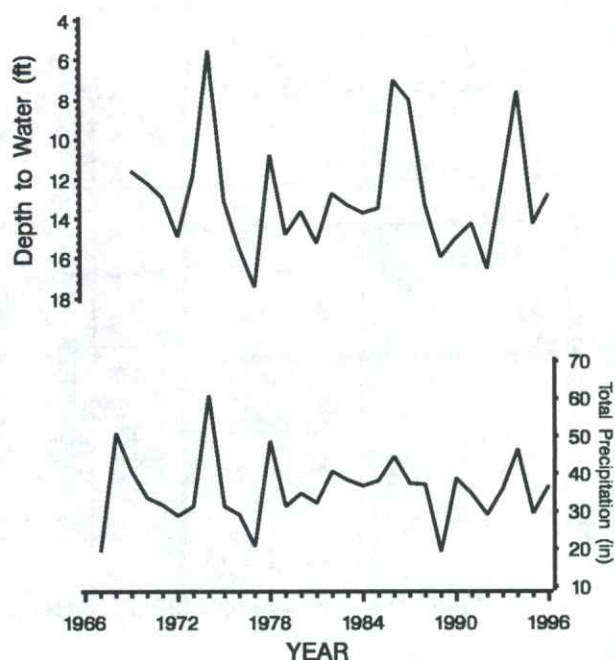


FIGURE 2—Depth to water in Douglas County, well 12S-20E-07-CBC-01 [29 ft (8.8 m) deep; Pleistocene formation], and precipitation at Topeka WSFO Airport (station 14816706).

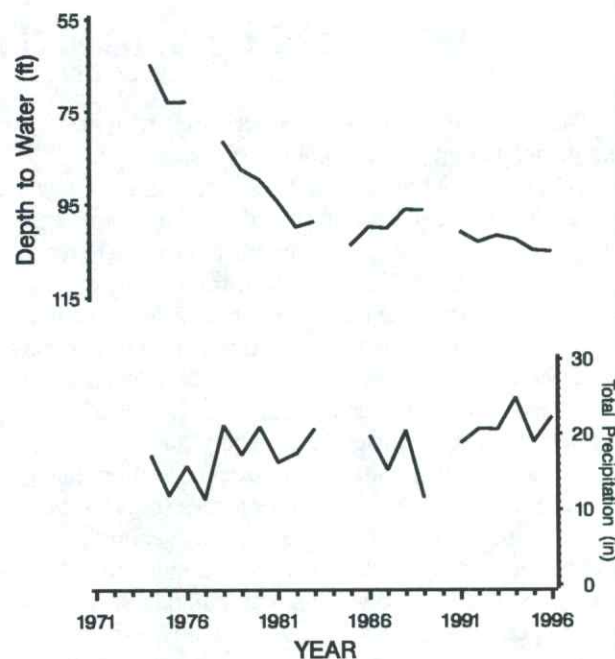


FIGURE 3—Depth to water in Finney County, well 24S-33W-28-DAA-01 [185 ft (56.4 m) deep; Pleistocene/Tertiary formations], and precipitation at Garden City Experimental Station (station 14298007).

water table. As the precipitation graph indicates, rainfall has regularly fluctuated over time with an average annual total precipitation of 18.6 inches/yr (47.2 cm/yr).

Hamilton County, alluvial deposits (QA)

Various aquifers are used in Hamilton County (KU, KJ, TO, QA, QU). The hydrograph (fig. 4) is of well 23S43W21ABA01 in the Quaternary alluvial aquifer of the Arkansas River valley. Alluvial-aquifer systems consist of unconsolidated sand and gravel at relatively shallow depths. The depth to bedrock at the well is 29 ft (8.8 m), with a 1940 depth to water of 15 ft (4.6 m) and a 1996 depth to water of 12.9 ft (3.93 m). This local increase in saturated thickness is reasonable for an alluvial aquifer because the water level fluctuates in response to recharge from the Arkansas River and from rainfall events. However, aquifer systems such as the Ogallala aquifer and aquifers in Cretaceous formations in Hamilton County show steady long-term declines in the water level. This is a result of ground-water withdrawals that exceeded natural recharge. Some individual wells in the Ogallala Formation (TO) and Cretaceous aquifer units (KU, KJ) show declines in excess of 70 ft (21 m) since predevelopment, as shown in appendix B.

The hydrograph (fig. 4) for well 23S43W21ABA01 shows some relation between water level and precipitation. Large-scale and variable local irrigation pumping can influence these relationships. In addition, streamflow in the Arkansas River is influenced by precipitation and water use over a much larger area than that represented by the single precipitation gauge.

Osborne County, terrace deposits of Quaternary age (QU)

Osborne County contains few observation wells for data collection. Geologic units such as the Dakota Formation (KD) and alluvium (QA) are the major aquifers in this county. The hydrograph of the observation well 06S12W23CDC01 is presented in fig. 5. The well is in the alluvium of the North Fork Solomon River.

The hydrograph illustrates the combined effects of recharge, ground-water pumping, releases from upstream reservoirs, and surface-water irrigation on yearly changes in water level. Precipitation patterns drive these factors directly or indirectly. In turn, they interact in various ways that either cancel their effects (e.g., diverting surface water can be less expensive than pumping and is therefore used in its place) or compound their effects (e.g., increased rainfall increases reservoir levels, which allows for more instream releases). This is a shallow well, with a shallow water table [at a depth of 13–28 ft (4.0–8.5 m), on average], and is located in alluvial terrace deposits composed of sands, gravels, and clays. This allows the water table to respond more rapidly to changes in the stream-channel water level. A comparison of figs. 2 and 5 supports these conclusions. The well in fig. 2 also is an alluvial well, but

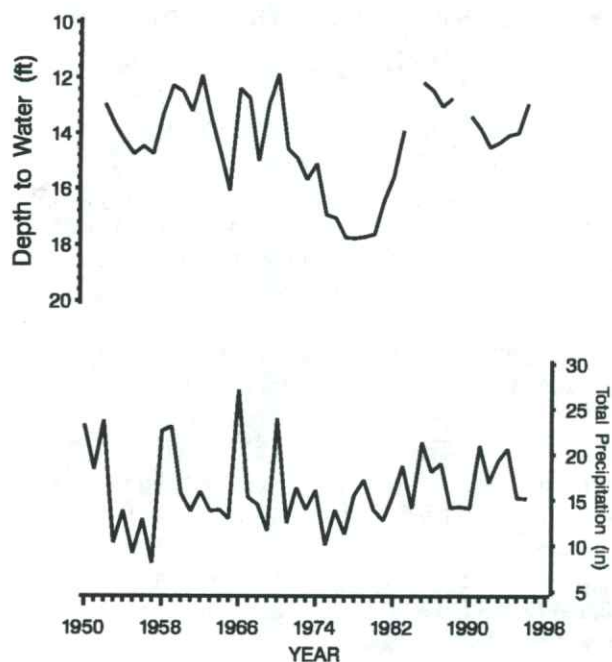


FIGURE 4—Depth to water in Hamilton County, well 23S-43W-21-ABA-01 [29 ft (8.8 m) deep; alluvial formation], and precipitation at Syracuse (station 14803807).

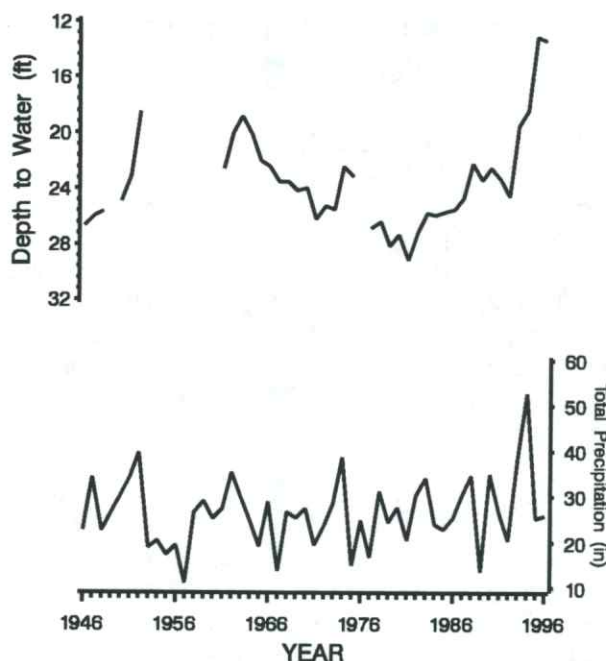


FIGURE 5—Depth to water in Osborne County, well 06S-12W-23-CDC-01 [30 ft (9.1 m) deep; alluvial formation], and precipitation at Cawker City (station 14137102).

it is not subject to fluctuations resulting from variable local releases and irrigation. Thus depth to water and precipitation in fig. 2 show greater correspondence than fig. 5.

Scott County, Ogallala Formation of Tertiary age (TO)

All the observation wells in Scott County are within the Ogallala Formation (TO). Well 20S33W09BBB01 is used for the hydrograph (fig. 6). This observation well penetrates 128 ft (39.0 m) to the bottom of the Ogallala Formation. The Ogallala is composed of sand, gravel, silt, and clay and is overlain by Pleistocene loess deposits of sand, silt, and clay.

The 1996 depth to water is 102.8 ft (31.33 m). Compared to the 1940 level [60 ft (18 m)] (appendix B, Scott County, table 1), the decline of the water level is 42.8 ft (13.0 m). This represents a 63% decrease in saturated thickness. This change in saturated thickness for the period 1940–1996 is typical of the Ogallala aquifer in Scott County.

The hydrograph (fig. 6) illustrates no observable relation between the low and variable annual rainfall and the water-table variations. This is consistent with other studies that indicate that average annual recharge is on the order of 0.25 inches/yr (0.6 cm/yr) and that the time required for water to move from the surface to the water table in some locations is greater than 30 years. Clearly, the dominant effect is the decline in the water table resulting from ground-water pumping.

Sedgwick County, Quaternary alluvial deposit (QA)

The hydrograph of the observation well 25S01W26DBD01 (fig. 7) is representative of ground-water conditions in Sedgwick County. The well is in the alluvium of the Arkansas River.

This well is 54 ft (16 m) deep and is in unconsolidated clay, silt, sand, and gravel. The hydrograph illustrates the effect of recharge on changes in water level on a yearly basis. Because this well is shallow and located in alluvial terrace deposits, which have a shallow water table [an average depth of 15–20 ft (4.6–6.1 m)], the depth to water is greatly influenced by recharge from the river.

A comparison of fig. 7 with figs. 2 and 5 shows that the Sedgwick County well is more similar to the Douglas County well in the Kansas River alluvium (fig. 2). Unlike the well in fig. 5 (in Osborne County), the Sedgwick and Douglas County wells are subject to streamflow regimes that are less affected by local flow regulation.

Thomas County, Ogallala Formation of Tertiary age

The primary aquifer in Thomas County is the Ogallala Formation. The Ogallala is composed of sand, gravel, silt, and clay and is overlain by Pleistocene loess. The depth to bedrock in the Ogallala aquifer at observation well

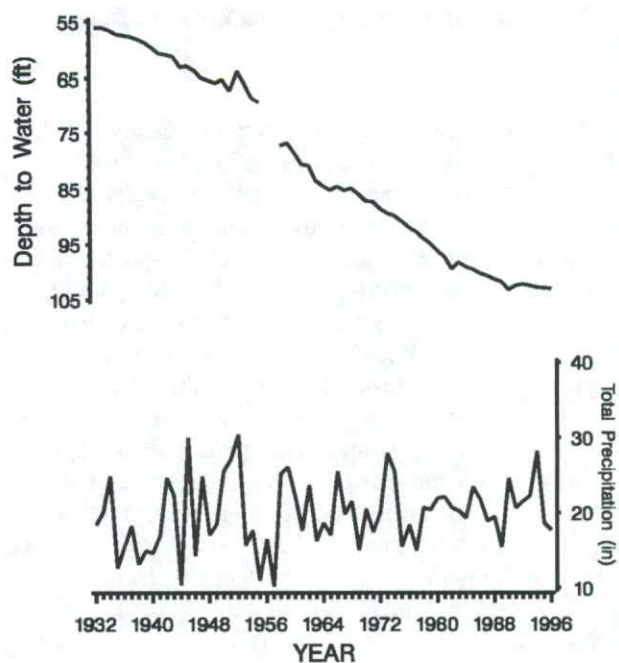


FIGURE 6—Depth to water in Scott County, well 20S-33W-09-BBB-01 [128 ft (39.0 m) deep; Ogallala Formation], and precipitation at Scott City (station 14727104).

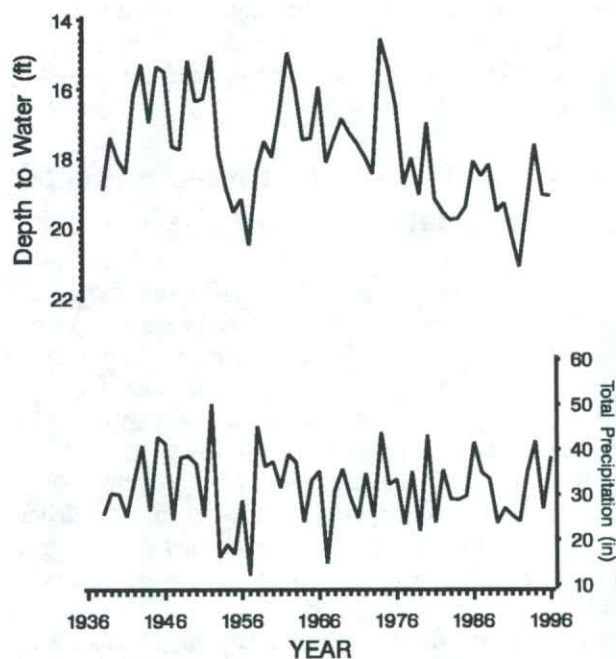


FIGURE 7—Depth to water in Sedgwick County, well 25S-01W-26-DBD-01 [54 ft (16 m) deep; Pleistocene alluvial formation], and precipitation at Mount Hope (station 14553908).

08S34W01BAC01 is 270 ft (82.3 m). The depth to water in this well has increased from 113 ft (34.4 m) below land surface in 1950 to 130.5 ft (39.78 m) in 1996. This drop in water level represents an 11% decrease in saturated thickness since predevelopment.

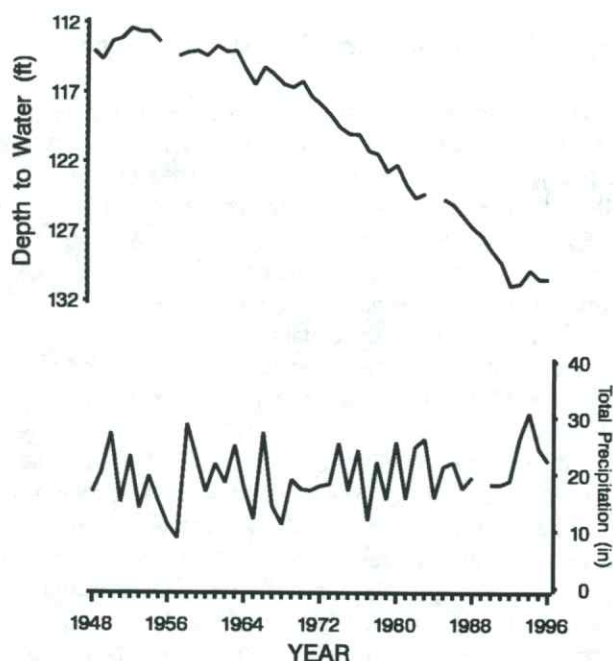


FIGURE 8 (left)—Depth to water in Thomas County, well 08S-34W-01-BAC-01 [160 ft (48.8 m) deep; Ogallala Formation], and precipitation at Colby 1 SW (station 14169901).

Like the Scott County example (fig. 6), the hydrograph in fig. 8 illustrates no obvious correspondence between total annual rainfall and the depth to the water table. The Ogallala water table is deep in this part of Kansas. The combination of a deep water table with thick overlying unsaturated sediments and low annual rainfall produces long time lags between rainfall and recharge. The long-term imbalance between ground-water withdrawal and recharge is evident from the decline of water levels over a 40-year period with relatively stable amounts of precipitation.

Regional change in water levels

The state of Kansas has been divided into eight hydrologic regions (see fig. 1). For each of the four regions that contain major portions of the High Plains aquifer, two types of water-level change are presented in this section. Each is based on the measured depths to water reported in table 1 of appendix B. Because the amount of water available and the elevation of the water table both decrease as the depth to water increases, changes are discussed in terms of change in water level, or elevation of the water table. These values are presented in table 2 of appendix B.

Wells are normally measured in the same month in each sample year. This provides a benchmark for short-term changes, and differences between successive annual measurements are reported as the annual change. When measurements are not available within a month of the intended month of measurement, no comparison is made. Long-term effects are represented by changes since the predevelopment period. The predevelopment water level represents conditions before ground water in that region was used extensively and is usually taken as a specific year in the range 1940–1950, depending on the availability of early data for the region.

Tables 2–8 summarize regional changes in water level since the predevelopment period and since the preceding annual measurement, based on wells sampled in the past seven years. Figures 9–12 are divided into three maps each, depicting the spatial distribution of water-level and saturated-thickness changes in the High Plains aquifer. Part A displays a generalized interpretation of the absolute vertical change in water level from the assigned

predevelopment period to the present. Part B shows a generalized interpretation of the percentage change in the saturated thickness of the aquifer from predevelopment to present. Finally, part C shows the generalized change in water level since the last annual sample. The location of the High Plains aquifer is shown as an outline on each map, and except for fringe areas, generally coincides with the shaded regions. On each map, an average value of the variable (water-level change or percent change in saturated thickness) is determined for each section in a township. The sections are then classified into different intervals according to their specific average values. For example, all sections with an average decline of water level since predevelopment between 25 and 50 ft (7.5–15 m) are shaded the same color and assigned to the interval which is labeled 25–50 ft (7.5–15 m) decrease, and so forth.

Statistical analysis is an important tool for understanding observed patterns of ground-water data. This report employs a statistic to help describe the behavior of annual water-level changes.

Tables 2, 4, 6, and 8 report the results of a “paired t-test” on the difference between each successive annual depth-to-water measurement for each well. This statistic, the average of all annual water-level changes, is tested to determine whether that difference is large enough to indicate that a “statistically significant” change has occurred.

Statistical significance relates the value of a statistic with the probability of observing that calculated value. It is often measured by the “p-value.” This quantity reports the probability of encountering a larger value than was

calculated from the sample of data. A 5% level of significance is commonly used as an indication of statistical significance (this convention is followed in this report). This means that the p-value must be less than 0.05 (5%) to indicate statistical significance. In other words, there is less than a 5% risk that the statistic could be larger, by random chance. This is commonly accepted as sufficient evidence of a statistically significant result. However, there remains a 1 in 20 (5%) chance that this relationship is not significant. Conversely, if statistical significance is rejected because of a large p-value, a possibility always remains that the difference is nonetheless real.

Region I: Southwestern Kansas

The primary aquifers in southwestern Kansas are in Cretaceous, Ogallala, and alluvial units. Table 1 shows the pattern of change in regional water levels over the past seven years. Although the average decline of water levels between 1995 and 1996 is small, the average decline since predevelopment, 53.4 ft (16.3 m), is still relatively large. The map in fig. 9A shows large declines from predevelopment ground-water levels in parts of Stanton, Grant, Haskell, Stevens and Finney counties. Because of the large original saturated thickness of the Ogallala Formation in this area, substantial reserves of ground water still exist. Limited areas in Grant, Stanton, Morton, Hamilton and Finney counties exist where saturated thickness has decreased by over 50% (see fig. 9B).

Annual changes in water level (table 2) for this region show an average decline of 1.6 ft (49 cm) this year (compared with 2.2 ft [66 cm] last year). Declines in water levels were observed in 76% of the wells reported, although the number of wells with rises in water levels increased slightly since last year. The annual-change map (fig. 9C) shows slightly less total area of decline than observed in 1994-95, but an increased area of declines of 5 ft (1.5 m) or more in the 1995-96 period. Comparison with last year's map indicates a continuing trend of steady decline.

TABLE 2—ANNUAL CHANGE IN WATER LEVEL (ft) for reported wells in region I.

Year	Average change	Number of wells	Largest rise	Largest decline	Percentage of wells with rise ^a	Percentage of wells with decline ^a	Is change statistically significant?
1991	-1.2	452	39.1	26.0	29	71	yes
1992	-2.0	451	15.0	38.3	21	78	yes
1993	+0.6	427	84.9	11.1	45	55	no
1994	-0.1	415	43.1	21.5	34	66	no
1995	-2.2	385	9.6	29.9	17	82	yes
1996	-1.6	387	20.0	20.2	24	76	yes

a. The percentage of wells with water-level rises and the percentage of wells with water-level declines will not always sum to 100. Each year it is possible that a small number of wells will remain at the same level as the previous year.

Region II: West-central Kansas

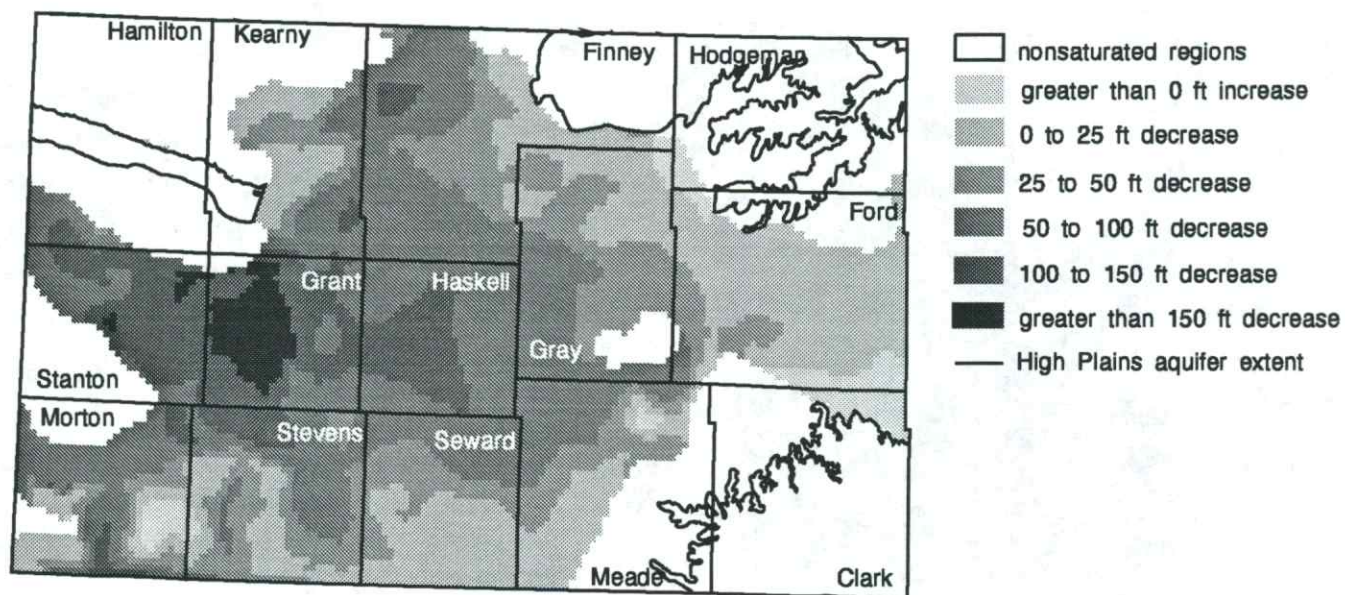
The west-central region of Kansas encompasses an area extending one and one-half counties south to north and four to five counties extending eastward from the Kansas-Colorado border. In this region the primary aquifer is the Ogallala Formation of Tertiary age. The average decline in water level since predevelopment for reported wells (table 3) has been approximately 35 ft (11 m), with the largest decline equal to 95.2 ft (29.0 m). Water-level declines since the predevelopment period (fig. 10A) exceed 50 ft (15 m) in many areas, primarily in Wallace, Greeley, Scott, and Wichita counties. The areal extent of the largest declines appears to be about the same as that observed in 1995. The depth to bedrock in region II is less than that in regions I and III. As a result, small declines represent a larger percentage (50% or more in many areas; see fig. 10B) of the total water reserves than is the case in the Ogallala aquifer in regions I and III. The hydrograph for Scott County (fig. 6) illustrates the typical pattern of decline in the region.

Water levels in region II (table 4) declined by an average of 0.9 ft (27 cm) in the 1995-96 period. The percentage of wells exhibiting a decline was over twice the number of wells exhibiting a rise (69% vs. 31%). These observations indicate a continuing trend of decline observed in the previous year.

TABLE 1—CHANGE IN WATER LEVEL (ft), predevelopment to present, for reported wells in region I.

Year	Average change	Number of wells	Largest rise	Largest decline
1991	-49.4	362	21.3	205.1
1992	-49.3	347	20.3	209.0
1993	-48.0	331	19.8	210.4
1994	-49.3	327	19.8	207.9
1995	-49.6	302	19.6	212.0
1996	-53.4	307	18.6	216.9

A



B

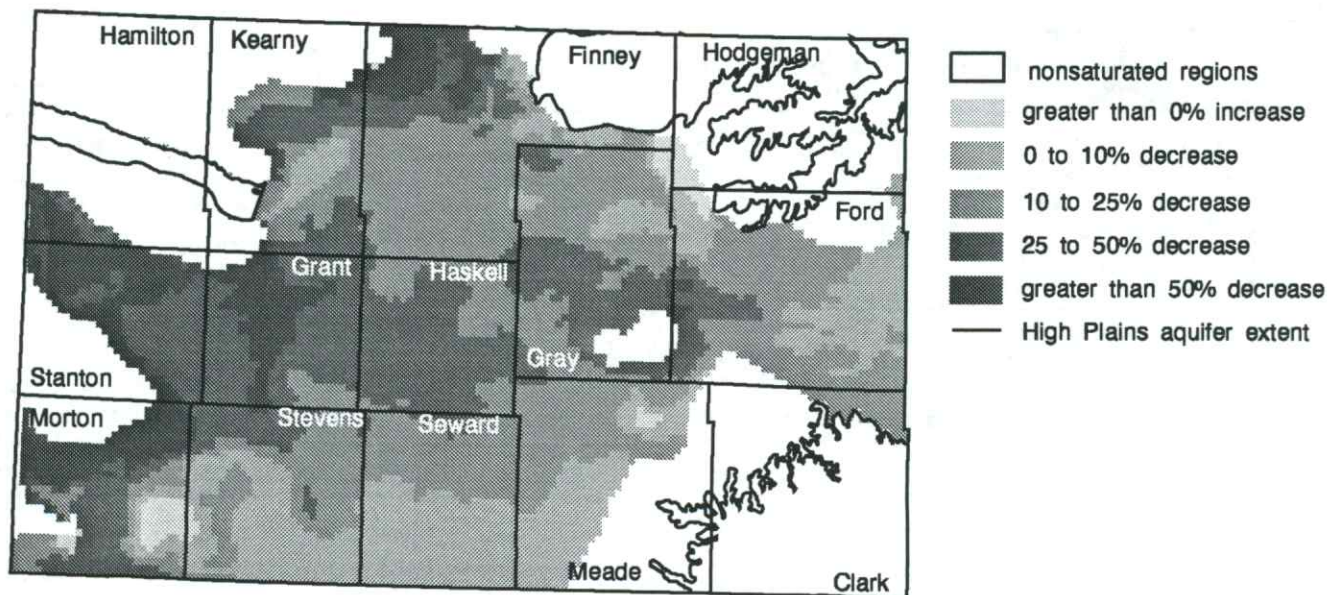


FIGURE 9—Ground-water changes in the area of the High Plains aquifer in Region I, southwest Kansas. See fig. 10 for adjacent areas to the north, and fig. 12 for adjacent areas to the east. (A) Generalized water-level changes (in ft), predevelopment to 1996. (B) Change (%) in saturated thickness, predevelopment to 1996. (C, following page.)

C

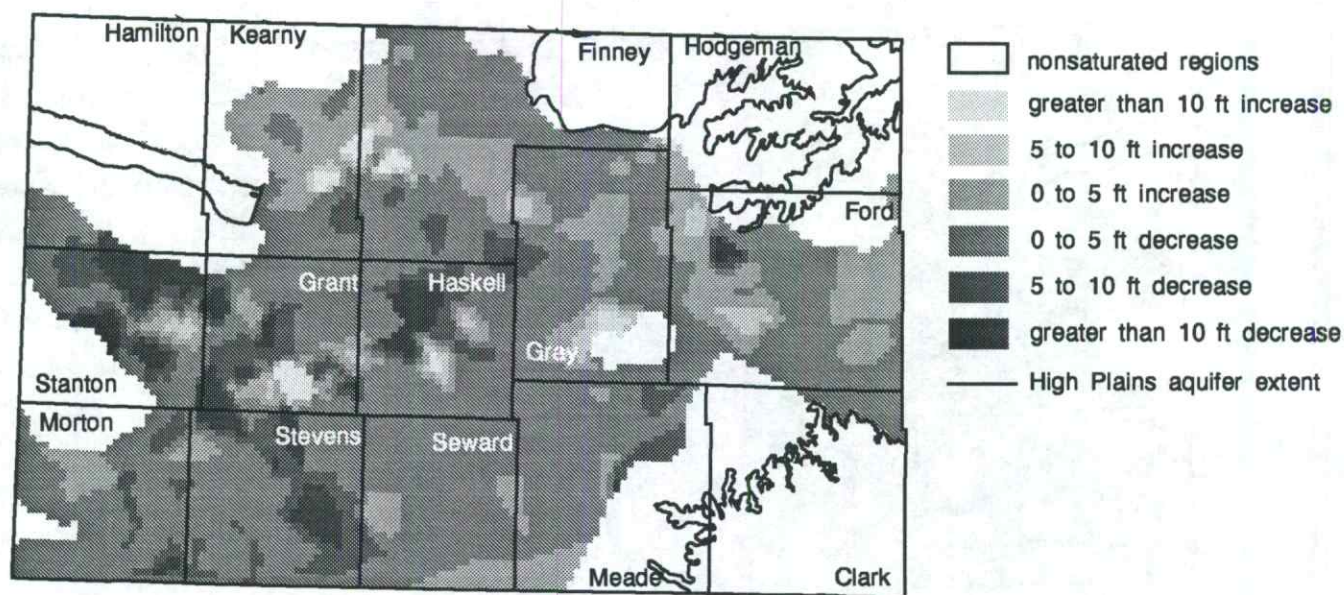


FIGURE 9 (continued)—(C) Annual water-level change (in ft), 1995-96.

TABLE 3—CHANGE IN WATER LEVEL (ft), predevelopment to present, for reported wells in region II.

Year	Average change	Number of wells	Largest rise	Largest decline
1991	-36.0	139	2.2	87.6
1992	-34.0	115	2.6	88.4
1993	-34.0	89	4.1	86.5
1994	-32.4	107	5.2	83.9
1995	-34.2	111	2.5	84.7
1996	-35.3	108	2.8	95.2

Region III: Northwest Kansas

In northwest Kansas the primary aquifer is the Ogallala Formation. The largest areas of decline (greater than 25 ft [7.5 m]) in water-level (fig. 11A, table 5) and saturated thickness (fig. 11B) since predevelopment continue to be in Sherman, Sheridan, and Thomas counties, where well development is greatest. The areas of these sharp declines have grown since 1995. Saturated-

TABLE 4—ANNUAL CHANGE IN WATER LEVEL (ft) for reported wells in region II.

Year	Average change	Number of wells	Largest rise	Largest decline	Percentage of wells with rise ^a	Percentage of wells with decline ^a	Is change statistically significant?
1991	-0.3	162	9.1	5.4	33	63	no
1992	-0.3	145	11.1	11.8	31	68	no
1993	+0.6	111	5.8	9.7	76	24	yes
1994	+0.9	109	7.7	5.5	66	33	yes
1995	-1.1	131	5.4	10.1	24	76	yes
1996	-0.9	134	6.6	14.6	31	69	yes

a. The percentage of wells with water-level rises and the percentage of wells with water-level declines will not always sum to 100. Each year it is possible that a small number of wells will remain at the same level as the previous year.

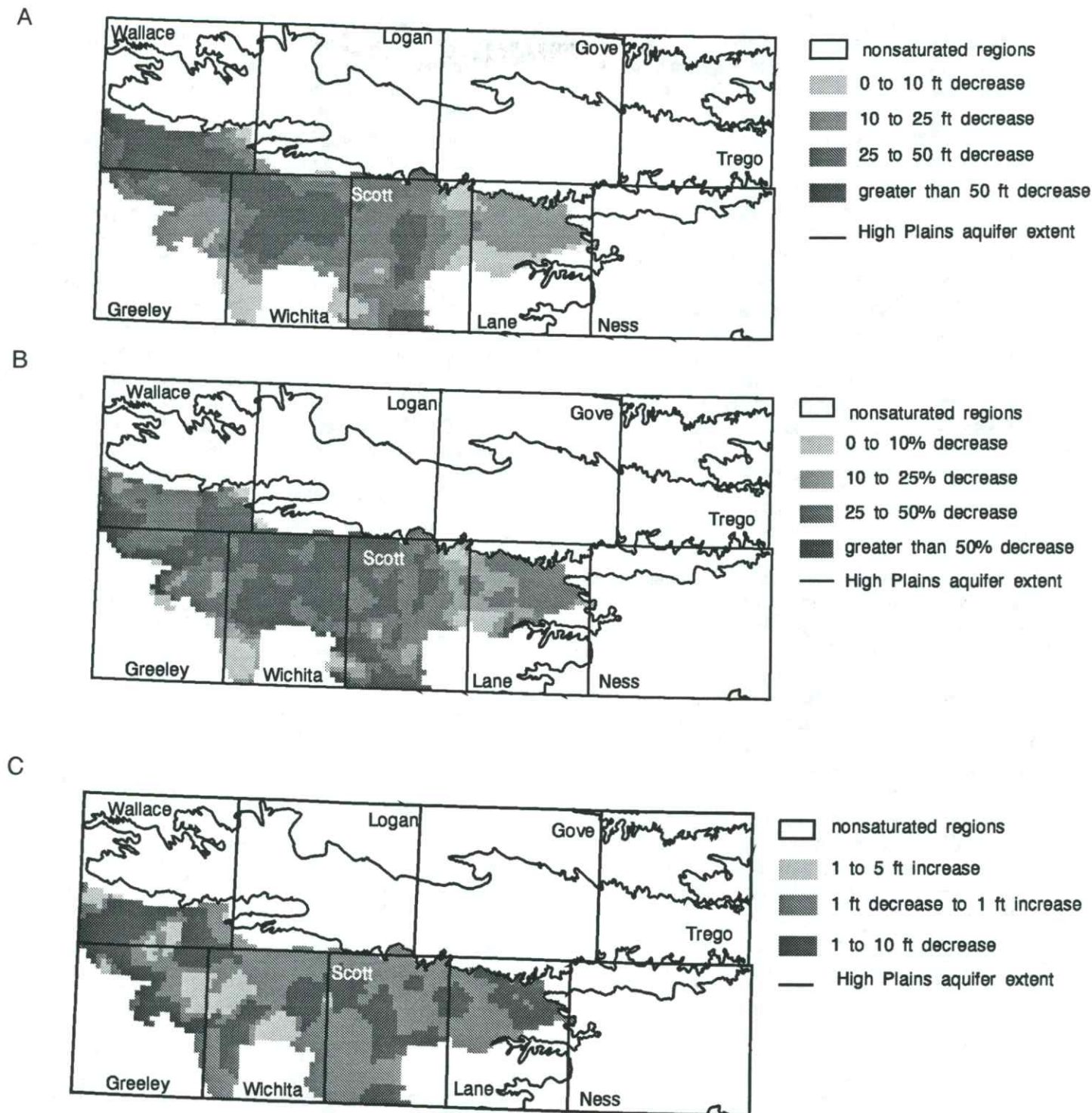


FIGURE 10—Ground-water changes in the area of the High Plains aquifer in Region II, west-central Kansas. See fig. 11 for adjacent areas to the north, and fig. 9 for adjacent areas to the south. (A) Generalized water-level changes (in ft), predevelopment to 1996. (B) Change (%) in saturated thickness, predevelopment to 1996. (C) Annual water-level change (in ft), 1995-96.

thickness declines in region III have not yet reached the 50% level because of the large predevelopment saturated thickness of the aquifer. The hydrograph for Thomas County (fig. 8) illustrates a sustained water-table decline, which is typical for much of the region.

The 1996 average annual change (table 6) was a decline in water level of 0.4 ft (12 cm). The percentage of wells with a decrease in water level was 54% in 1996 compared to 66% in 1995. The 1996 annual-change map for region III shows a slightly greater total area of 1–5 ft water-level increase in the 1995–96 period relative to the 1994–95 period, but it also shows areas of 5–10 ft decrease. These areas of sharp decrease were not present in the 1995 annual water-level-change map. These observations seem to indicate a trend of increase in some areas of the region and a trend of decline in others. These effects may be due to increased overall precipitation for the area in 1995 offset by local increases in irrigation pumpage.

Region V: South-central Kansas

The south-central region of Kansas is located east of the easternmost extension of the Ogallala Formation. In this region the primary aquifer is the Quaternary alluvium, and agriculture is the leading consumer of ground water. In this area, the average change since predevelopment has been a decline of 3.4 ft (100 cm), which is much smaller than the average amount of change in other regions (table 7). Significant areas of water-level decline greater than 10 ft and saturated-thickness decline greater than 10% (figs. 12A, B) continue to appear in Edwards and Pawnee counties, and to a lesser extent in Stafford, Kiowa and Pratt counties. Water tables higher than the predevelopment value by 0–10 ft (0.0–3.0 m) were observed primarily in Stafford, Reno, Kingman, Pratt, and Kiowa counties. The total area of these rises showed a slight increase in 1996. Predevelopment water-level change and percent saturated thickness change data for the

peripheral counties of the region—Rush, Barton, Rice, McPherson, Harvey, Sedgwick, Sumner, Harper, Barber, and Comanche—are very scant and thus results presented for these counties in figures 12A and 12B should be viewed with this in mind.

Water-level changes in the 1995–96 period (table 8) had an average rise of 0.7 ft (21 cm) in 1996, as 80% of the wells exhibited an increase in water level. Nearly all areas of region V exhibited rises in 1996. This is in stark contrast to 1995, when 94% of the wells in region V exhibited declines. The greatest difference between the samples can be seen in Edwards, Stafford, Barton, Reno, Harvey, and Sedgwick counties. Portions of these counties which reported decreases in water-table elevation of 4–10 ft in 1995 reported increases of 0–6 ft in 1996. This pattern of change was observed in the northern, central, and eastern portions of the region, where the aquifer is shallow. In contrast, sharp declines (4–10 ft) were observed in southwest Pratt County, where increases were observed last year. These observations, as a whole, demonstrate the dominant effect of a rise in annual precipitation (and thus recharge) in nearly all of the region (see NOAA 1994 and 1995 Climatological Data Summaries for Kansas).

In the central and eastern portions of this area, the freshwater aquifer is underlain by formations containing saltwater, which can move up to replace the freshwater if

TABLE 5—CHANGE IN WATER LEVEL (ft), predevelopment to present, for reported wells in region III.

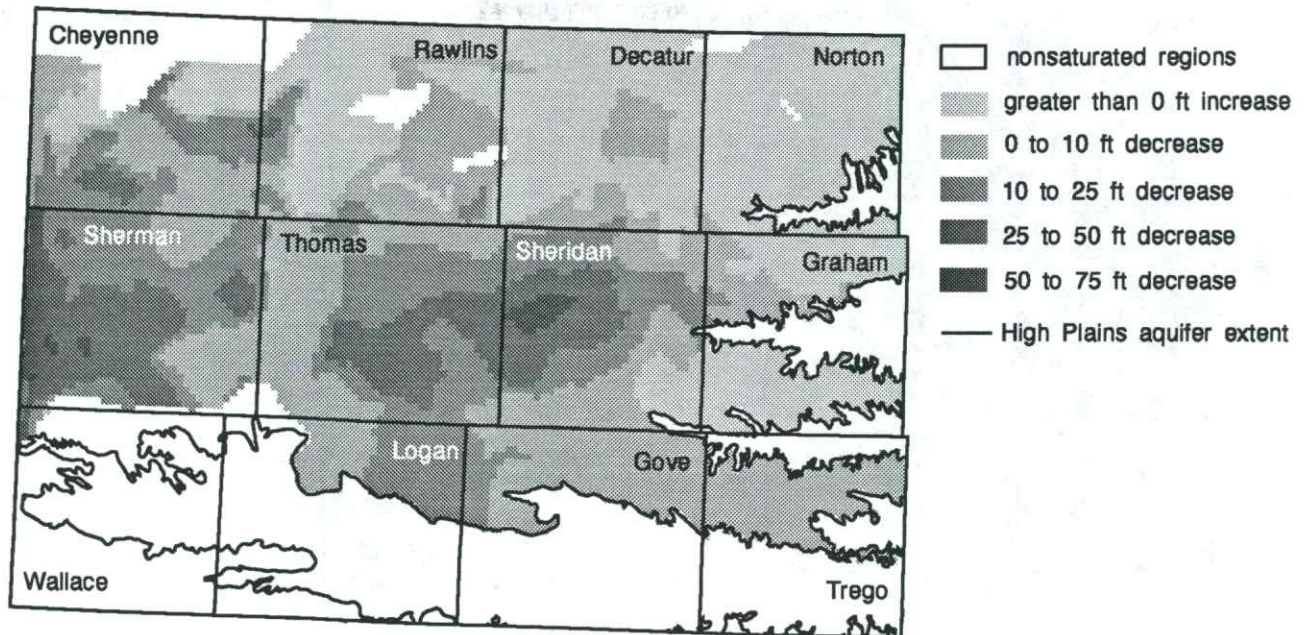
Year	Average change	Number of wells	Largest rise	Largest decline
1991	–14.5	236	5.8	66.4
1992	–15.2	217	4.0	68.2
1993	–13.8	209	6.1	66.6
1994	–12.4	238	8.7	64.8
1995	–13.2	234	22.3	67.1
1996	–14.2	225	23.5	67.8

TABLE 6—ANNUAL CHANGE IN WATER LEVEL (ft) for reported wells in region III.

Year	Average change	Number of wells	Largest rise	Largest decline	Percentage of wells with rise ^a	Percentage of wells with decline ^a	Is change statistically significant?
1991	–0.2	323	15.8	19.7	34	60	no
1992	–0.9	291	4.8	21.8	31	67	yes
1993	+1.1	269	21.6	6.6	78	22	yes
1994	+1.3	290	15.6	11.3	73	26	yes
1995	–0.5	317	16.2	13.0	34	66	yes
1996	–0.4	306	9.9	17.4	45	54	yes

a. The percentage of wells with water-level rises and the percentage of wells with water-level declines will not always sum to 100. Each year it is possible that a small number of wells will remain at the same level as the previous year.

A



B

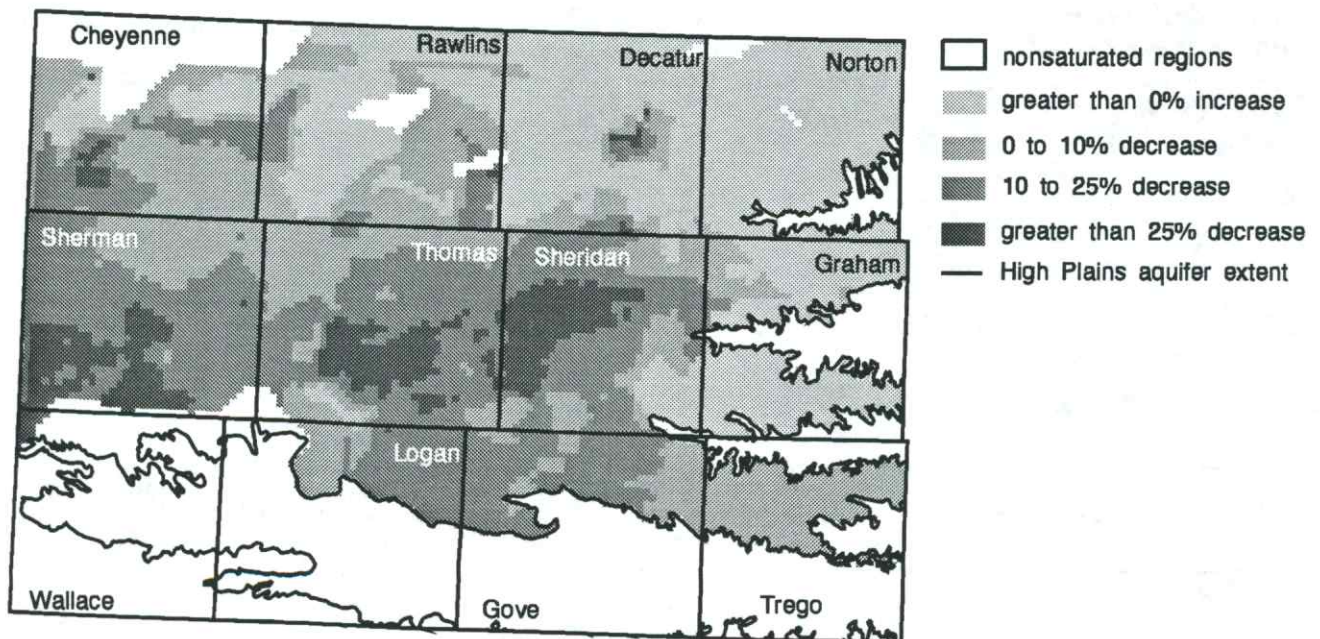


FIGURE 11—Ground-water changes in the area of the High Plains aquifer in Region III, northwestern Kansas. See fig. 10 for adjacent areas to the south. (A) Generalized water-level changes (in ft), predevelopment to 1996. (B) Change (%) in saturated thickness, predevelopment to 1996. (C, following page.)

C

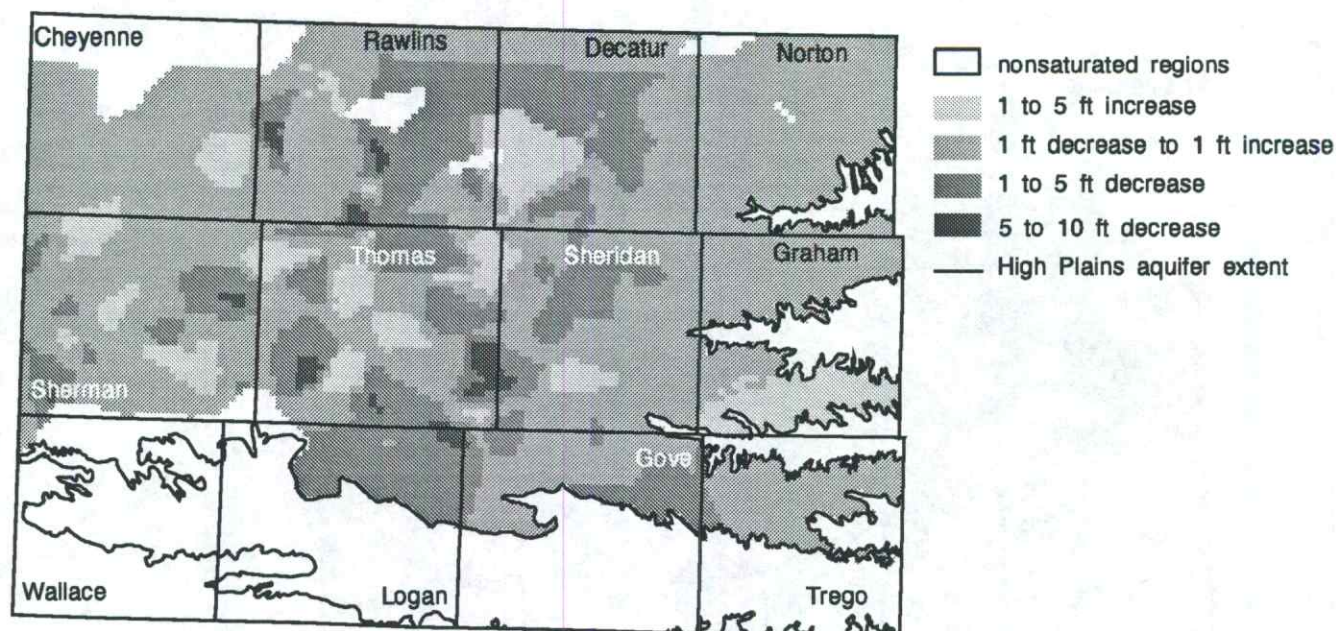


FIGURE 11 (continued)—(C) Annual water-level change (in ft), 1995-96.

pumping exceeds recharge. This means that local areas are subject to both water-table declines (reduction of saturated thickness) and upconing of saltwater. Because of this, reporting of water levels alone is not sufficient for determining the availability of usable water. The saltwater-freshwater relation is currently being studied by the Kansas Geological Survey and Big Bend Groundwater Management District No. 5.

TABLE 7—CHANGE IN WATER LEVEL (ft), predevelopment to present, for reported wells in region V.

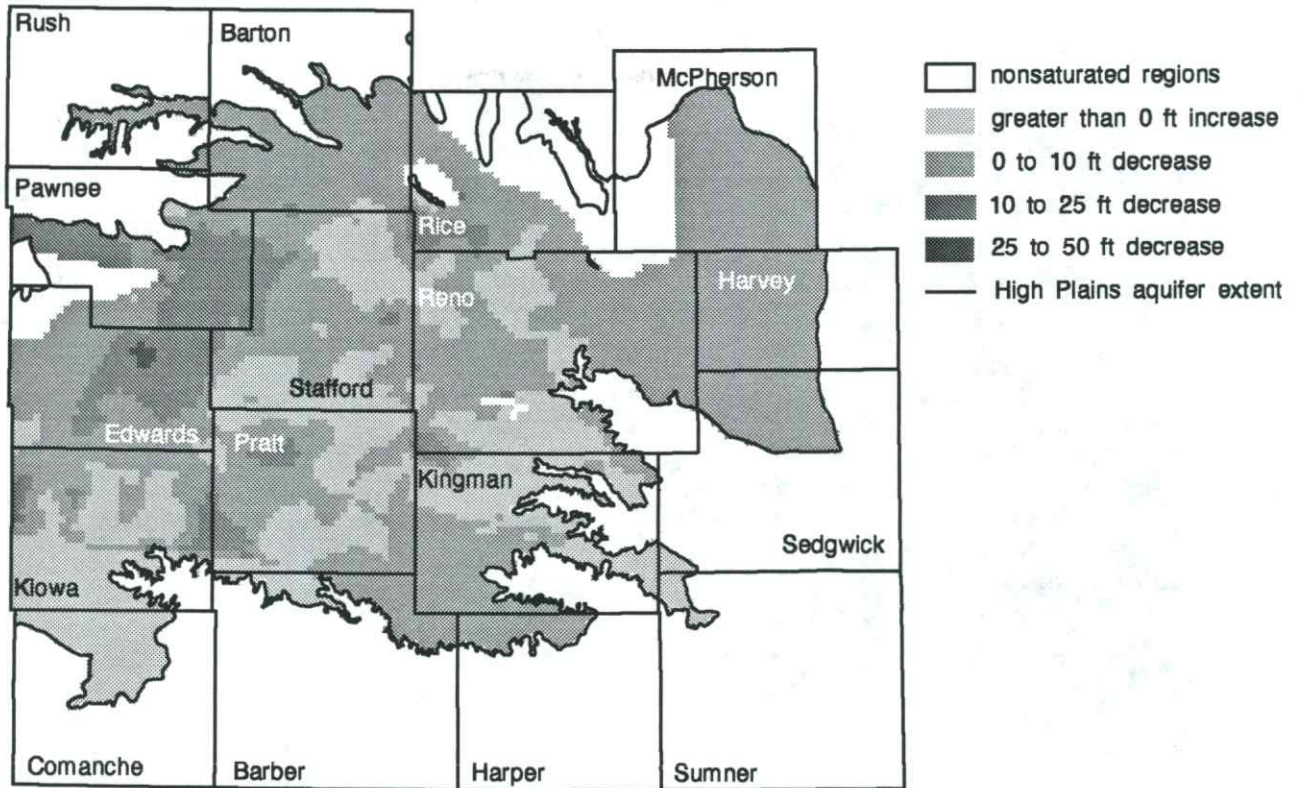
Year	Average change	Number of wells	Largest rise	Largest decline
1991	-3.8	232	15.7	29.0
1992	-5.4	224	17.8	31.1
1993	-4.3	222	21.1	31.9
1994	-1.7	224	19.4	31.4
1995	-4.0	219	16.9	33.2
1996	-3.4	220	17.8	32.3

TABLE 8—ANNUAL CHANGE IN WATER LEVEL (ft) for reported wells in region V.

Year	Average change	Number of wells	Largest rise	Largest decline	Percentage of wells with rise ^a	Percentage of wells with decline ^a	Is change statistically significant?
1991	-1.2	347	3.4	44.4	11	87	yes
1992	-1.3	350	42.1	9.8	5	94	yes
1993	+1.3	339	10.0	5.9	77	22	yes
1994	+2.5	335	13.6	4.7	85	15	yes
1995	-2.4	329	5.2	10.0	6	94	yes
1996	+0.7	322	5.9	9.5	80	19	yes

a. The percentage of wells with water-level rises and the percentage of wells with water-level declines will not always sum to 100. Each year it is possible that a small number of wells will remain at the same level as the previous year.

A



B

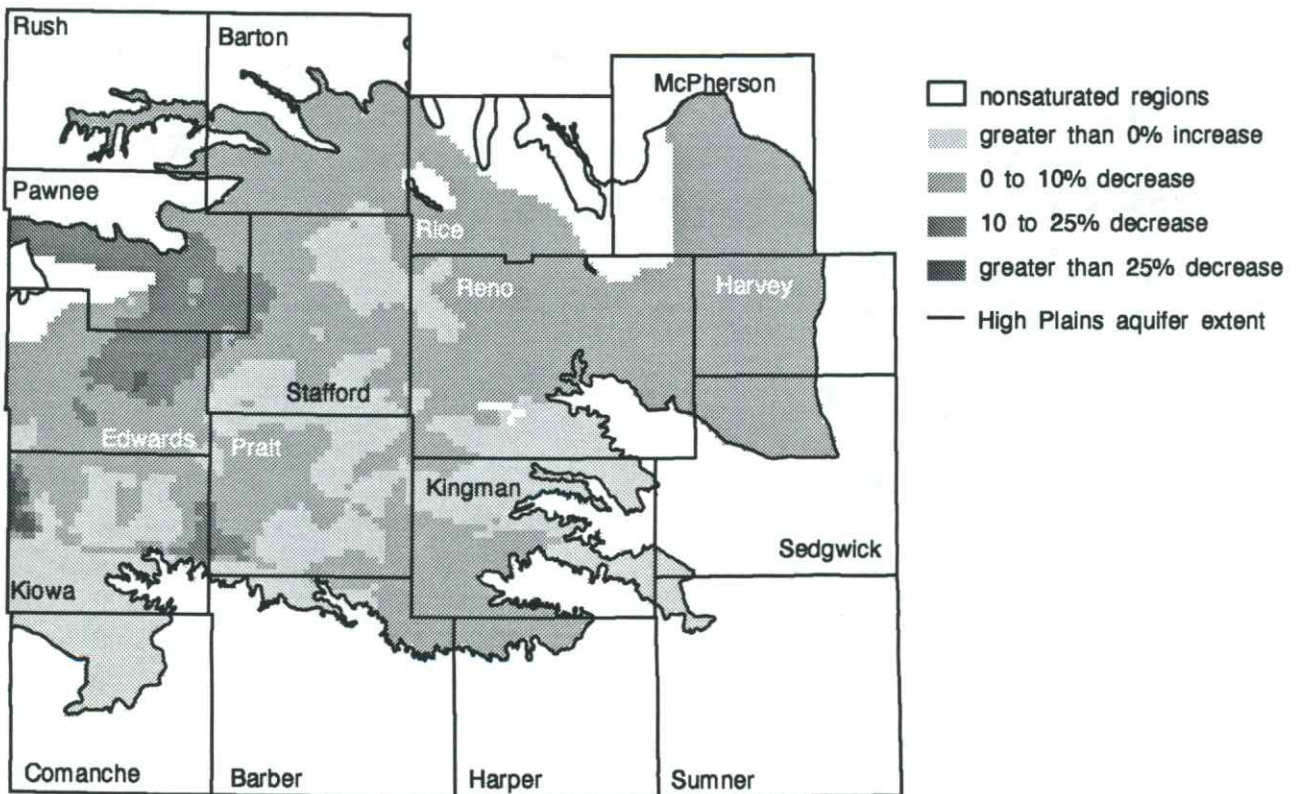


FIGURE 12—Ground-water changes in the area of the High Plains aquifer in Region V, south-central Kansas. See fig. 9 for adjacent areas to the west. (A) Generalized water-level changes (in ft), predevelopment to 1996. (B) Change (%) in saturated thickness, predevelopment to 1996. (C, following page.)

C

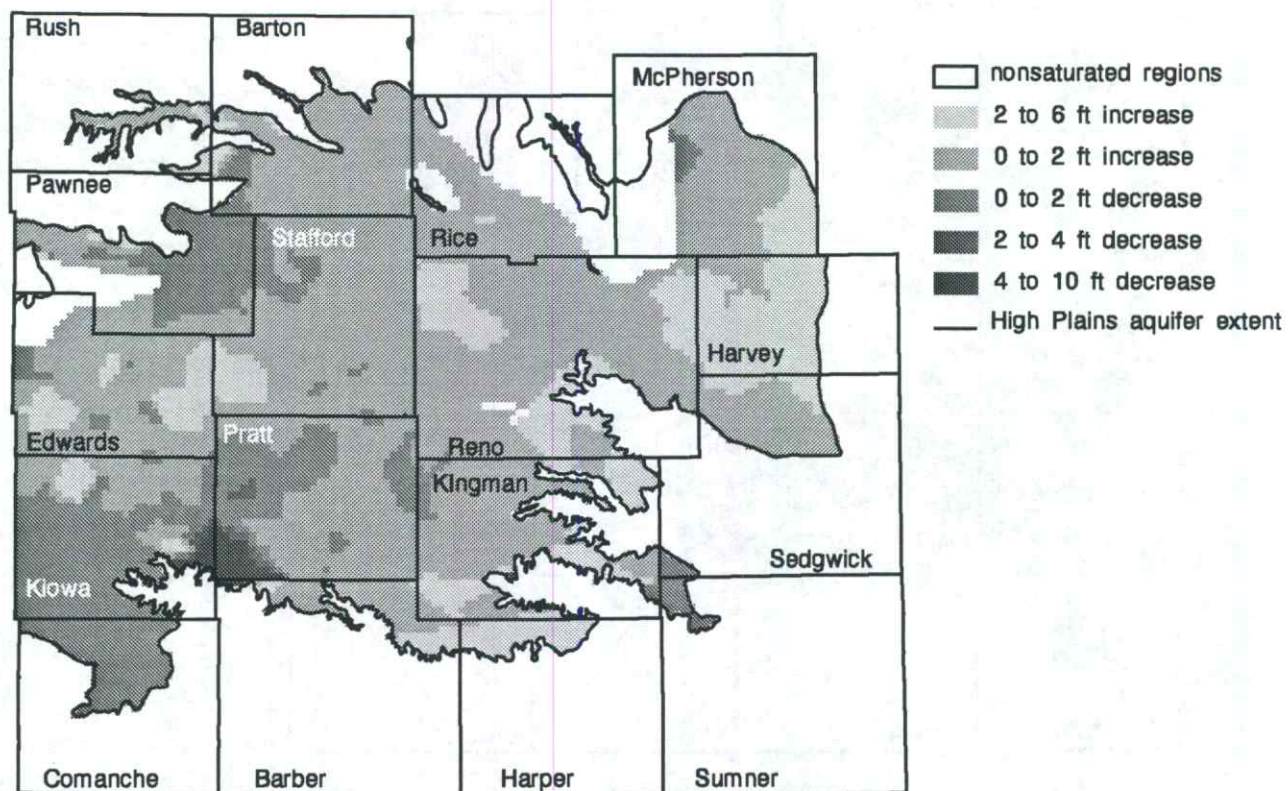


FIGURE 12 (continued)—(C) Annual water-level change (in ft), 1995-96.

Appendix A: Publications containing ground-water-level data for Kansas

Records of ground-water-level data for Kansas were published in U.S. Geological Survey Water-Supply Papers for 1935–1971. These water-supply papers are listed in table A.1.

A series of annual reports that contain records of water-level measurements for Kansas for 1956–1965 have been published in Kansas Geological Survey bulletins, listed in table A.2.

Recent literature of interest to water-level-data users

In addition to the water-supply papers and bulletins, information of interest to water-level-data users in Kansas can be found in the following recent publications. For literature more than seven years old, refer to earlier issues of this report or to Sorensen (1990).

1987

Dague, B. J., 1987, January 1987 water levels and data related to water-level changes, western and south-central Kansas: U.S. Geological Survey, Open-file Report 87–241, 161 p.

1988

Pabst, B. J., 1988, January 1988 water levels and data related to water-level changes, western and south-central Kansas: U.S. Geological Survey, Open-file Report 88–342, 158 p.

1989

Kastner, W. M., Schild, D. E., and Spahr, D. S., 1989, Water-level changes in the High Plains aquifer underlying parts of South Dakota, Wyoming, Nebraska, Colorado, Kansas, New Mexico, Oklahoma, and Texas—predevelopment through nonirrigation season 1987–88: U.S. Geological Survey, Water Resources Investigations Report 89–4073, 61 p.

Townsend, M. A., Shaukat, N., Healey, J., and McClain, T. J., 1989, January 1989 Kansas water levels and data related to water-level changes: Kansas Geological Survey, Groundwater Series 10, 144 p.

1990

Dugan, J. T., Schild, D. E., and Kastner, W. M., 1990, Water-level changes in the High Plains aquifer underlying parts of South Dakota, Wyoming, Nebraska, Colorado, Kansas, New Mexico, Oklahoma, and Texas—predevelopment through nonirrigation season 1988–89: U.S. Geological Survey, Water Resources Investigations Report 90–4153, 29 p.

Geiger, C. O., Lacock, D. L., Schneider, D. R., Carlson, M. D., and Merry, C. E., 1990, Water-resources data, Kansas water year 1989: U.S. Geological Survey, Water-data Report KS–89–1, 457 p.

Sorensen, J. H., 1990, Kansas water bibliography through 1989: Kansas Geological Survey, Open-file Report 90–41a–m

1991

Blackwell, C. D., 1991, The Water Data Sources Directory of the National Water Data Exchange, central region: U.S. Geological Survey, Open-file Report 91–0053, 682 p.

Buddemeier, R. W., Shamsnia, S., Woods, J., and McClain, T. J., 1991, January 1990 Kansas water levels and data related to water-level changes: Kansas Geological Survey, Open-file Report 91–12, 129 p.

Buddemeier, R. W., Woods, J., McClain, T. J., and Mitchell, J. E., 1991, January 1991 Kansas water levels and data related to water-level changes: Kansas Geological Survey, Groundwater Series 13, 134 p.

Dugan, J. T., and Schild, D. E., 1991, Water-level changes in the High Plains aquifer—predevelopment to 1990: U.S. Geological Survey, Water Resources Investigations Report 91–4165, 55 p.

Geiger, C. O., Lacock, D. L., Schneider, D. R., Carlson, M. D., and Pabst, B. J., 1991, Water-resources data, Kansas water year 1990: U.S. Geological Survey, Water-data Report KS–90–1, 370 p.

Gillespie, J. B., Hargadine, G. D., Myers, N. C., and Hargadine, D. A., 1991, Geohydrologic data for the South Fork Ninnescah River valley and adjacent plains in Pratt and Kingman counties, south-central Kansas: U.S. Geological Survey, Open-file Report 91–0186, 55 p.

Hansen, C. V., 1991, Estimates of freshwater storage and potential natural recharge for principal aquifers in Kansas: U.S. Geological Survey, Water Resources Investigations Report 87–4230, 100 p.

Kenny, J. F., 1991, Reported water use in Kansas, 1987: U.S. Geological Survey, Open-file Report 91–0212, 39 p.

1992

Geiger, C. O., Lacock, D. L., Schneider, D. R., Carlson, M. D., and Pabst, B. J., 1992, Water resources data, Kansas, water year 1991: U.S. Geological Survey, Open-file Report 92–90, 130 p.

———, 1992, Water-resources data, Kansas water year 1991: U.S. Geological Survey, Water-data Report KS–91–1, 358 p.

Hansen, C. V., Underwood, E. J., Wolf, R. J., and Spinazola, J. M., 1992, Geohydrologic systems in Kansas—physical framework of the upper aquifer unit of the Western Interior Plains aquifer system: U.S. Geological Survey, Hydrologic Investigations Atlas HA–722–D, 2 sheets, scales 1:1,000,000 and 1:3,000,000

Hansen, C. V., Wolf, R. J., and Spinazola, J. M., 1992, Geohydrologic systems in Kansas—physical frame-

work of the confining unit in the Western Interior Plains aquifer system: U.S. Geological Survey, Hydrologic Investigations Atlas HA-722-E, 2 sheets, scales 1:1,000,000 and 1:3,000,000

Spinazola, J. M., Wolf, R. J., and McGovern, H. E., 1992, Geohydrologic systems in Kansas—physical framework of the Great Plains aquifer system: U.S. Geological Survey, Hydrologic Investigations Atlas HA-722-B, 2 sheets, scales 1:1,000,000 and 1:2,000,000

Wolf, R. J., McGovern, H. E., and Spinazola, J. M., 1992, Geohydrologic systems in Kansas—physical framework of the Western Interior Plains confining system: U.S. Geological Survey, Hydrologic Investigations Atlas HA-772-C, 2 sheets, scales 1:1,000,000 and 1:3,000,000

1993

Buchanan, R., and Buddemeier, R. W., 1993, Kansas ground water: Kansas Geological Survey, Educational Series 10, 44 p.

Combs, L. J., Hansen, C. V., and Wolf, R. J., 1993, Geohydrologic systems in Kansas—geohydrology of the lower aquifer unit in the Western Interior Plains aquifer system: U.S. Geological Survey, Hydrologic Investigations Atlas HA-722-1, 3 sheets, scale 1:1,500,000

Geiger, C. O., Lacock, D. L., Schneider, D. R., Carlson, M. D., and Dague, B. J., 1994, Water-resources data, Kansas water year 1993: U.S. Geological Survey, Water-data Report KS-93-1, 497 p.

Hansen, C. V., 1993, Description of geographic-information-system files containing water-resource-related data compiled and collected for Wyandotte County, northeastern Kansas: U.S. Geological Survey, Open-file Report 93-92, 46 p.

Mitchell, J. E., Woods, J., McClain, T. J., and Buddemeier, R. W., 1993, January 1992 Kansas water levels and data related to water-level changes: Kansas Geological Survey, Technical Series 3, 134 p.

Wolf, R. J., and Helgesen, J. O., 1993, Ground- and surface-water interaction between the Kansas River and associated alluvial aquifer, northeastern Kansas: U.S. Geological Survey, Water-Resources Investigations Report 92-4137, 49 p.

1994

Dugan, J. T., McGrath, T., and Zelt, R. B., 1994, Water-level changes in the High Plains aquifer—predevelopment to 1992: U.S. Geological Survey, Water-Resources Investigations Report 94-4027, 56 p.

Mitchell, J. E., Woods, J., McClain, T. J., and Buddemeier, R. W., 1994, January 1993 Kansas water levels and data related to water-level changes: Kansas Geological Survey, Technical Series 4, 114 p.

Woods, John J., Mitchell, J. E., Buddemeier, R. W., 1994, January 1994 Kansas water levels and data related to water-level changes: Kansas Geological Survey, Technical Series 5, 106 p.

1995

Buddemeier, R. W., 1995, Kansas research and data needs, 1995-2000: Kansas Geological Survey, Open-file Report 95-46, 6 p.

Geiger, C. O., Lacock, D. L., Schneider, D. R., Carlson, M. D., and Dague, B. J., 1995, Water-resources data, Kansas water year 1994: U.S. Geological Survey, Water-data Report KS-94-1, 479 p.

Goolsby, D. A., Scribner, E. A., Thurman, E. M., Pomes, M. L., and Meyer, M. T., 1995, Data on selected herbicides and two triazine metabolites in precipitation of the midwestern and northeastern United States, 1990-91: U.S. Geological Survey, Open-file Report 95-0469, 341 p.

Hedman, E. R., and Engel, G. B., 1995, Flow characteristics of selected streams in the Great Plains subregion of the Central Midwest Regional Aquifer System and selected adjacent areas; Kansas and Nebraska, and parts of Colorado, Iowa, Missouri, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming: U.S. Geological Survey, Hydrologic Investigations Series HA-708, 3 sheets

Jordan, P. R., and Stamer, J. K. (eds.), 1995, Surface-water-quality assessment of the Lower Kansas River basin, Kansas and Nebraska; analysis of available data through 1986: U.S. Geological Survey, Water-supply Paper 2352-B, 161 p.

Roberts, D. J., and Combs, L. J. (compls.), 1995, Water-resource reports prepared by or in cooperation with the U.S. Geological Survey, Kansas, 1886-1994: U.S. Geological Survey, Open-file Report 95-0120, 122 p.

Southard, R. E., 1995, Flood volumes in the Upper Mississippi River basin, April 1 through September 30, 1993: U.S. Geological Survey, Circular 1120-H, 32 p.

Woods, J. J., Schloss, J. A., and Buddemeier, R. W., 1995, January 1995 water levels and data related to water-level changes: Kansas Geological Survey, Technical Series 8, 138 p.

TABLE A.1—U.S. Geological Survey Water-Supply Papers.

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

Appendix B: Water-level data tables

This appendix contains water-level data for wells in the cooperative monitoring network, arranged in alphabetical order by county. For each county two tables are presented. Table 1 contains descriptive information on each well and depth-to-water measurements for the past seven years. Table 2 displays information about saturated thickness and water-level changes based on the data in table 1. The nature of the information presented in these tables and how to use them is described in the following text.

Before addressing the content of the tabular information, one apparent data anomaly should be discussed. Two wells in Finney County are marked with a leading plus sign (+). In these wells the water-level listed is below the top of the bedrock. This situation occurs where predevelopment water levels were above the Niobrara bedrock surface and subsequent water-level declines lowered the water table below the bedrock surface. The upper part of the Niobrara Formation in these areas is weathered and permeable and therefore allows the otherwise impermeable bedrock to act as an aquifer.

TABLE A.2—Kansas Geological Survey Bulletins with water-level measurements.

Year	Bulletin number ^a
1956	125
1957	131
1958	141
1959	146
1960	153
1961	159
1962	167
1963	173
1964	177
1965	184

a. Can be purchased from the Publications Sales Office, Kansas Geological Survey, University of Kansas, 1930 Constant Avenue, Lawrence, KS 66047-3726.

Table 1

Column 1 contains the well number, a unique identifier based primarily on the legal location description of the well. Wells in this report are numbered according to a modification of the U.S. Bureau of Land Management system of land subdivision (fig. 13). The location is composed of the township, range, and section numbers followed by letters indicating the subdivision of the section in which the well is located. The first letter encloses a 160-acre tract; the second, a 40-acre tract; the third, a 10-acre tract; and the fourth, if present, a 2.5-acre tract. The letters A, B, C, and D designate the tract in a counterclockwise manner, starting in the northeast corner. Therefore a location described as SW NW NW sec. 7, T. 18 S., R. 39 W. [the SW quarter of the NW quarter of the NW quarter of sec(tion) 7, T(ownship) 18 S(outh), R(ange) 39 W(est)], is translated to 18S-39W-07-BBC. A final two-digit number is appended to the location to identify the specific well in cases where there is more than one well in the same tract. If there were two wells in the parcel of land described above, the second well ID would be 18S39W07BBC02. Identifiers preceded by an asterisk (*) indicate wells whose 1996 measurement was not made in the same month as the 1995 measurement.

Column 2 identifies the principal geologic unit(s) [up to three] in which the well is screened. Designations for the geologic units in the tables are listed in table 1.

Geologic unit designations are not given when there is no record of field observations, although in many locations the geologic unit may be inferred from designations for neighboring wells or the general geology of the area. Where more than one unit designation is given for a single

well, the designations indicate that the well was drilled through more than one water-bearing formation or that the geologic units are so similar or in such close proximity that the hydrology at that well may be influenced by more than one unit.

Column 3 gives the land-surface altitude of the well (in feet above mean sea level). By subtracting the depth to water from the land-surface altitude, the altitude of the water table can be calculated.

Column 4 presents the depth to bedrock where that is known. The bedrock is assumed to be the impermeable formation at the bottom of the aquifer. The difference between the depth to water and the depth to bedrock is the saturated thickness of the formation (aquifer).

Column 5 gives the depth to water during the base reference year. Depending on the area of the state, the base reference year is 1940, 1944, or 1950. These are the earliest predevelopment years (before significant irrigation withdrawals of ground water) for which a significant amount of water-table data are available. Predevelopment water levels are assigned to well locations on the basis of nearby data for those wells which did not exist during the predevelopment period.

Column 6 gives the depth to water for the reference year of either 1966 or 1974; depending on the locale, these years mark the beginning of modern continuous water-level-monitoring operations for the major Kansas aquifers.

Columns 7–13 give the depths to water measured in each year (when available) for the current year and the past six years.

Column 14 indicates the present frequency of measurement (a = annual, q = quarterly, m = monthly) and the present month of measurement (D = December, J = January, F = February, M = March); the length of record available is indicated by the last two digits of the first year for which data are available. The symbol U (or u) indicates that no consistent category could be assigned to that data field on the basis of records. It is important to recognize that December values are reported as part of the water-level record for the subsequent calendar year (i.e., December 1995 water levels are treated as 1996 values), and that measurement frequency and month of observation may not be consistent throughout the entire record. Monthly records are actually obtained from wells by continuous water-level recorders, from which monthly values are extracted.

Table 2

Columns 1 and 2 list the well numbers and geologic units as described for table 1.

Column 3 gives the depth to water for the current measurement year. This is the same value entered in column 13 of table 1.

Column 4 gives water-level change from the base reference (predevelopment) year to the present year.

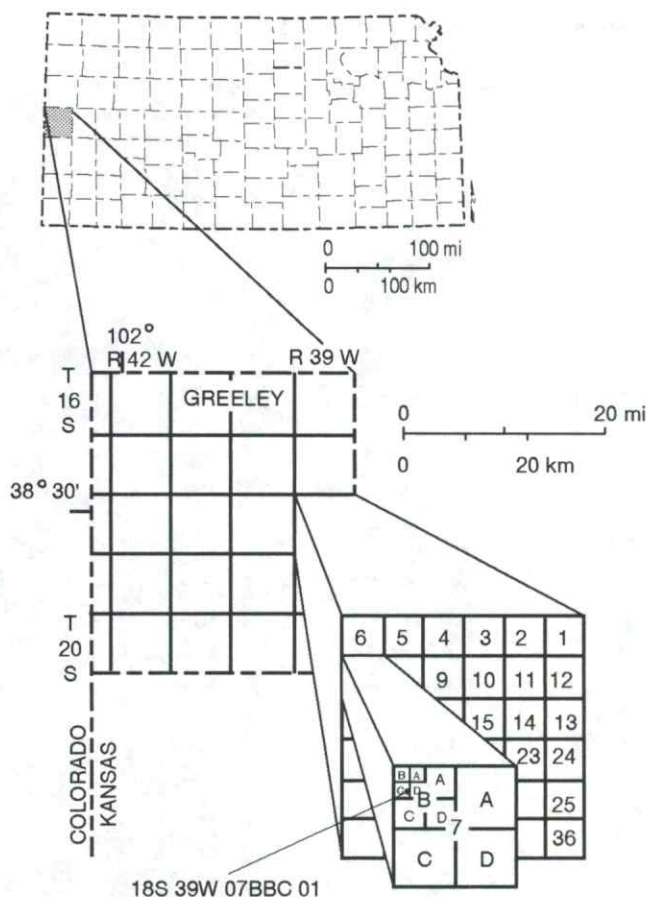


FIGURE 13—Locating wells using their legal location designation.

Column 5 gives water-level change from the reference year (1966 or 1974) to the present year.

Column 6 gives the water-level change over the preceding year.

Columns 7 and 8 present the average annual rates of change between the base reference (predevelopment) year and the current year and between the reference year (1966 or 1974) and the current year, respectively.

Columns 9 and 10 present the saturated thicknesses of the water-bearing formations in the base reference (predevelopment) year and in the present year, respectively. These values are blank for wells where either the depth to bedrock or the appropriate depth to water is not known.

Column 11 gives the percentage change in saturated thickness from the base reference year to present. This is roughly equivalent to the percentage change (in most cases, a depletion) of the original water resource. If we abbreviate "saturated thickness" as ST, the % change can be calculated using the formula

$$\% \text{ change in ST} = \frac{(\text{present ST} - \text{predevelopment ST}) \times 100}{\text{predevelopment ST}}$$

ALLEN COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, ALLEN COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)							Data type		
				1950	1966	1990	1991	1992	1993	1994		1995	1996
24S 18E 28CDD 01		948				11.0	13.3	15.0	5.0	9.3		13.8	qD64

ALLEN COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, ALLEN COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	
24S 18E 28CDD 01		13.8								

BARBER COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, BARBER COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1940	1966	1990	1991	1992	1993	1994	1995		1996
32S 12W 04DBC 01		1480		16	16.4	14.1	14.8	15.1	14.6	14.1		14.1	aD40

BARBER COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, BARBER COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	
32S 12W 04DBC 01		14.1	2	2.3		0.0	0.1			

BARTON COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, BARTON COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
18S 14W 27CDD 01	QA	1896				46.9	45.7	48.6	44.6	37.6	38.4	36.5	aJ72
18S 15W 28CCC 03		1913	9			22.7	22.7	25.3	19.2	5.6	11.3	10.8	aJ60
19S 11W 19BDD 01		1791	13			20.7	21.0	21.6	20.9	18.9	19.7	19.3	aJ85
19S 11W 26BDA 01		1772	7				14.9	15.5	14.3	10.8	12.7	12.0	aJ85
19S 13W 08BAD 01		1855	11			20.4	21.2	23.3	20.4	14.2	17.1	16.7	aJ77
19S 14W 23BBD 01	QA	1873				19.2	18.4	20.6	19.0	15.1	17.8	17.5	aJ86
19S 14W 36BBC 01		1868	8			11.2	10.9	12.9	11.7	9.0	11.1	10.8	aJ85
20S 11W 06CCC 01		1788	138	9	5.6	10.9	11.0	11.5	9.9	8.3	10.5	9.9	aJ67
20S 11W 26AAC 01		1752	112	3	1.6	11.7	11.5	12.5	11.1	6.0	10.1	9.1	aJ73
20S 12W 03DAC 01		1799	144	2	1.3	8.0	8.1	8.5	7.0	5.5	7.7	7.1	aJ72
20S 12W 06AAC 01	QU	1822	117	7	5.1	9.8	9.8	10.1	9.2	7.7	9.3	9.2	aJ73
20S 12W 23CCA 01	QU	1814	159	11	3.7	16.0	16.2		14.2	8.1	12.5	10.4	aJ73
20S 13W 17DDC 01	QU	1876	126	11	7.2	15.4	16.4		15.0	11.4	14.9	14.9	aJ73
20S 13W 24DCB 01	QU	1850	140	12	9.6	20.9	21.5	23.4	20.1	14.9	17.8	17.6	aJ68
20S 14W 22DCB 01		1897	152	6	6.5	14.1	14.6	17.2	14.5	11.4	14.7	14.4	aJ67
20S 15W 24DBD 01		1915		10		12.9	13.7	16.0	14.6	11.3	13.7	13.6	aJ77
20S 15W 33ADD 01		1945		15		18.1	19.2	20.9	20.0	16.9	18.7	19.4	aJ84

BARTON COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, BARTON COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness 1944-96
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	
18S 14W 27CDD 01	QA	36.5			1.9					
18S 15W 28CCC 03		10.8	-2		0.5	0.0				
19S 11W 19BDD 01		19.3	-6		0.4	-0.1				
19S 11W 26BDA 01		12.0	-5		0.7	-0.1				
19S 13W 08BAD 01		16.7	-6		0.4	-0.1				
19S 14W 23BBD 01	QA	17.5			0.3					
19S 14W 36BBC 01		10.8	-3		0.3	-0.1				
20S 11W 06CCC 01		9.9	-1	-4.3	0.6	0.0	-0.2	129	128	-1
20S 11W 26AAC 01		9.1	-6	-7.5	1.0	-0.1	-0.3	109	103	-6
20S 12W 03DAC 01		7.1	-5	-5.8	0.6	-0.1	-0.3	142	137	-4
20S 12W 06AAC 01	QU	9.2	-2	-4.1	0.1	0.0	-0.2	110	108	-2
20S 12W 23CCA 01	QU	10.4	1	-6.7	2.1	0.0	-0.3	148	149	1
20S 13W 17DDC 01	QU	14.9	-4	-7.7	0.0	-0.1	-0.4	115	111	-3
20S 13W 24DCB 01	QU	17.6	-6	-8.0	0.2	-0.1	-0.4	128	122	-5
20S 14W 22DCB 01		14.4	-8	-7.9	0.3	-0.2	-0.4	146	138	-5
20S 15W 24DBD 01		13.6	-4		0.1	-0.1				
20S 15W 33ADD 01		19.4	-4		-0.7	-0.1				

CHEYENNE COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, CHEYENNE COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
01S 38W 02CDC 01	TO	3034	41	23	22.6	23.7	24.0	23.9	23.0	23.1	24.2	23.2	aJ48
01S 38W 08DCC 01	QA	3057	33	12	12.3	13.0		13.5	13.1	13.3	14.1	13.4	aJ46
01S 38W 30BDC 01	QA	3090	28	7	8.0	9.2	10.3	10.0	8.9	8.9	9.2	8.6	aJ64
01S 39W 25CBC 01	QA	3102	26	7	8.5	9.6	9.8	9.5	8.9	9.6	9.7	9.4	aJ66
02S 37W 33DCC 01		3420				220.3	212.6	214.3	213.4	213.2	214.3	214.2	aJ84
02S 40W 28DBA 01	TO	3452	140	112	112.5	111.2	110.7	110.8	110.4	110.4	110.7	110.3	aJ65
02S 40W 32BCB 01	TO	3492				130.3	129.1	131.4	130.1	129.9	129.9	129.7	aJ84
02S 41W 27BBD 01	TO	3620	242	200	198.6	201.2	200.1	202.8	200.1	199.9	201.1	200.2	aJ64
02S 41W 33DBC 01	TO	3650	288	235	235.2	237.1	236.0	236.4	235.9	236.5	236.6	236.3	aJ65
03S 37W 19BBC 01	TO	3468	325	215	219.8	231.0	229.6	231.1	230.4	229.7	229.8	229.1	aJ50
03S 37W 21DDD 01	TO	3422	312	194		218.6	218.8		218.2	218.2	219.0	219.3	aJ79
03S 37W 36ADB 01	TO	3381	300	175	182.0	204.3	201.6	202.6	200.4	200.6	202.8	201.9	aJ65
03S 38W 04BCC 01	TO	3479				218.3	217.2	217.6	217.1	216.7	216.7	216.8	aJ66
03S 38W 21BCB 01	TO	3512				245.7	246.8		241.4	240.9	240.4	240.2	aJ66
03S 38W 25BBB 01		3479				227.0	226.6	228.2	226.4	225.7	225.4	225.5	aJ85
03S 39W 04CCC 01	TO	3351				71.2	64.9	64.6	64.0	63.5	63.6	63.4	aJ50
03S 39W 20DAC 01	TO	3450	199	130	140.4	140.6	140.6	138.8	138.6	138.6	139.0	139.0	aJ64
03S 39W 24DDD 01	TO	3505	275	205		222.7	222.5		222.2	222.3	223.2	223.1	aJ78
03S 39W 32BDB 01	TO	3490	223	150	153.6	153.1	153.6	157.7	152.4	151.9	152.5	152.7	aJ60
03S 40W 09BAA 02	QA,TO	3358	22	20	19.9	19.7	20.0	19.6	19.7	19.3	19.4	19.3	aJ51
03S 40W 35AAC 01	TO	3445	144	95	96.1	97.3	97.6	97.4	97.1	96.8	97.4	97.2	aJ64
03S 41W 33ABB 01		3594	184	164		161.8	160.6		160.4	160.6	160.2	159.9	aJ81
03S 42W 04AAA 01	TO	3727	255	230		230.9	231.3	231.1	231.0	231.0			aJ78
03S 42W 26CCD 01		3702				205.8	206.7		204.8	204.4	204.9	205.7	aJ85
04S 37W 17AAC 01	TO	3446	325	187	187.9	200.0	202.7	198.4	198.4	198.4	203.1	198.8	aJ66
04S 37W 25DCA 01	TO	3374	284	147	141.5	153.3	152.6	154.7	154.4	154.4	154.2	154.2	aJ64
04S 38W 04BAC 01	TO	3509	327	207	207.0	220.5	221.2	221.6	220.8	220.5	220.4	221.1	aJ66
04S 38W 20CCC 01	TO	3485	297	151	149.5	157.5	157.5	157.5	157.9	158.0	158.3	158.5	aJ67
04S 38W 21ADC 01	TO	3491	316	178	188.0	190.1	194.8		185.7	186.5	187.3	186.5	aJ65
04S 40W 22BCB 01	TO	3520	215	123	123.9	126.4	125.7	124.9	125.1	125.2	125.4	125.5	aJ50
04S 41W 16DAA 01	QA	3403	38	13	14.2	15.9	16.1	15.4	15.4	15.6	16.1	15.8	aJ64
04S 41W 23AAA 01		3526				122.2	122.2		121.4	122.3	122.8	122.8	aJ85
04S 41W 31ACA 01	TO	3552	142	94	94.0	97.4	97.5	97.6	97.8	97.8	98.1	99.1	aJ46
04S 42W 02BCC 01		3704				216.0	213.2	216.0	212.4	212.5	212.5	212.3	aJ85
04S 42W 16CCD 01		3590				89.9	90.4		88.6	88.9	89.3		aJ84
05S 37W 15DBB 01	TO	3397	297	137	136.4	151.1	152.7	152.5	144.7	144.4	145.2	145.1	aJ64
05S 38W 13BAD 01	TO	3390	220	74	72.5	77.9	78.6		78.4	77.5	79.1	79.2	aJ64
05S 38W 22ACB 01	TO	3437	270	90	90.6	95.3	96.0	97.3	96.7	96.8	98.4	98.0	aJ64
05S 39W 06DAA 01		3607				213.5	213.9	214.7	213.4	214.1	214.1	214.6	aJ80
05S 39W 11CBC 01	TO	3530	291	140	140.1	149.3	152.0	151.0	151.0	152.0	151.3	151.9	aJ65
05S 39W 25CDA 01	TO	3533	295	127	125.0	132.6	132.7	133.2	133.3	133.7	134.2	134.2	aJ65
05S 40W 14BCD 01	TO	3645	325	187		222.2	224.1	224.6	222.3	223.0	224.2	224.0	aJ75
05S 41W 20DAA 01	TO	3742	309	207	211.6	226.9	227.0		227.9	231.8			aJ64
05S 42W 14DCC 01			215			134.1	133.4	134.1	132.8	132.6	133.1	133.6	aJ87

CHEYENNE COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, CHEYENNE COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness 1950-96
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	
01S 38W 02CDC 01	TO	23.2	0	-0.6	1.0	0.0	0.0	18	18	0
01S 38W 08DCC 01	QA	13.4	-1	-1.1	0.7	0.0	0.0	21	20	-5
01S 38W 30BDC 01	QA	8.6	-2	-0.6	0.6	0.0	0.0	21	19	-10
01S 39W 25CBC 01	QA	9.4	-2	-0.9	0.3	0.0	0.0	19	17	-11
02S 37W 33DCC 01		214.2			0.1					
02S 40W 28DBA 01	TO	110.3	2	2.2	0.4	0.0	0.1	28	30	7
02S 40W 32BCB 01	TO	129.7			0.2					
02S 41W 27BBD 01	TO	200.2	0	-1.6	0.9	0.0	-0.1	42	42	0
02S 41W 33DBC 01	TO	236.3	-1	-1.1	0.3	0.0	0.0	53	52	-2
03S 37W 19BBC 01	TO	229.1	-14	-9.3	0.7	-0.3	-0.3	110	96	-13
03S 37W 21DDD 01	TO	219.3	-25		-0.3	-0.5		118	93	-21
03S 37W 36ADB 01	TO	201.9	-27	-19.9	0.9	-0.6	-0.7	125	98	-22
03S 38W 04BCC 01	TO	216.8			-0.1					
03S 38W 21BCB 01	TO	240.2			0.2					
03S 38W 25BBB 01		225.5			-0.1					
03S 39W 04CCC 01	TO	63.4			0.2					
03S 39W 20DAC 01	TO	139.0	-9	1.4	0.0	-0.2	0.0	69	60	-13
03S 39W 24DDD 01	TO	223.1	-18		0.1	-0.4		70	52	-26
03S 39W 32BDB 01	TO	152.7	-3	0.9	-0.2	-0.1	0.0	73	70	-4
03S 40W 09BAA 02	QA,TO	19.3	1	0.6	0.1	0.0	0.0	2	3	50
03S 40W 35AAC 01	TO	97.2	-2	-1.1	0.2	0.0	0.0	49	47	-4
03S 41W 33ABB 01		159.9	4		0.3	0.1		20	24	20
03S 42W 04AAA 01	TO									
03S 42W 26CCD 01		205.7			-0.8					
04S 37W 17AAC 01	TO	198.8	-12	-10.9	4.3	-0.3	-0.4	138	126	-9
04S 37W 25DCA 01	TO	154.2	-7	-12.7	0.0	-0.2	-0.4	137	130	-5
04S 38W 04BAC 01	TO	221.1	-14	-14.1	-0.7	-0.3	-0.5	120	106	-12
04S 38W 20CCC 01	TO	158.5	-8	-9.0	-0.2	-0.2	-0.3	146	139	-5
04S 38W 21ADC 01	TO	186.5	-9	1.5	0.8	-0.2	0.1	138	130	-6
04S 40W 22BCB 01	TO	125.5	-3	-1.6	-0.1	-0.1	-0.1	92	90	-2
04S 41W 16DAA 01	QA	15.8	-3	-1.6	0.3	-0.1	-0.1	25	22	-12
04S 41W 23AAA 01		122.8			0.0					
04S 41W 31ACA 01	TO	99.1	-5	-5.1	-1.0	-0.1	-0.2	48	43	-10
04S 42W 02BCC 01		212.3			0.2					
04S 42W 16CCD 01										
05S 37W 15DBB 01	TO	145.1	-8	-8.7	0.1	-0.2	-0.3	160	152	-5
05S 38W 13BAD 01	TO	79.2	-5	-6.7	-0.1	-0.1	-0.2	146	141	-3
05S 38W 22ACB 01	TO	98.0	-8	-7.4	0.4	-0.2	-0.2	180	172	-4
05S 39W 06DAA 01		214.6			-0.5					
05S 39W 11CBC 01	TO	151.9	-12	-11.8	-0.6	-0.3	-0.4	151	139	-8
05S 39W 25CDA 01	TO	134.2	-7	-9.2	0.0	-0.2	-0.3	168	161	-4
05S 40W 14BCD 01	TO	224.0	-37		0.2	-0.8		138	101	-27
05S 41W 20DAA 01	TO									
05S 42W 14DCC 01		133.6			-0.5				81	

CLARK COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, CLARK COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1940	1966	1990	1991	1992	1993	1994	1995		1996
30S 23W 06AAA 01		2557			140.6	145.1	146.2	142.6	150.3	144.6		142.8	aD39
33S 22W 30CBC 01		1899				12.8	14.4	18.1	17.0	14.8		14.5	aD61

CLARK COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, CLARK COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness 1940-96
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	
30S 23W 06AAA 01		142.8		-2.2			-0.1			
33S 22W 30CBC 01		14.5								

CLOUD COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, CLOUD COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1944	1974	1990	1991	1992	1993	1994	1995		1996
05S 02W 01BAC 01		1380			43.9	26.0	43.1	44.1	42.1	40.2			aM70

CLOUD COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, CLOUD COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness 1944-96
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	
05S 02W 01BAC 01										

CRAWFORD COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, CRAWFORD COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1950	1966	1990	1991	1992	1993	1994	1995		1996
29S 23E 24DBA 01		995				307.4	318.1	321.4		318.6		310.9	qD77

CRAWFORD COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, CRAWFORD COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
29S 23E 24DBA 01		310.9								

DECATUR COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, DECATUR COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
01S 26W 18DDB 01	QA	2413	59	28	26.4	27.8	28.3		27.8	24.9	25.5	26.1	aD59
01S 29W 03DDB 01	QA	2539	45	23	23.0	28.5	28.7	29.3	28.7	26.9	22.8	23.9	aD65
01S 29W 19BDD 01	QA	2572	53	10	10.9	17.5	18.8	19.5	18.8	15.7	14.4	14.9	qD59
01S 30W 34DDD 01	QA	2610	60	20	21.5	29.5	31.0	32.6	30.0	24.9	21.1	21.0	aD62
02S 26W 11BBA 01	TO	2509	110	85	87.3	85.5	85.3	85.5	84.9	83.3	82.6	81.8	aD66
02S 28W 13ABA 01		2487		27	26.2	28.0	29.1	29.8	27.7	25.8	24.3	26.6	aD62
02S 30W 23ADD 01		2835					135.6		135.2	134.7	133.6		aD87
03S 26W 30CBB 02	TO	2610	142	119	119.4	124.4	124.2	123.9	123.7	123.3	122.6	121.7	uD65
03S 27W 32ABA 01	TO	2637	120	74	74.8	70.2	70.0	70.0	69.6	68.4	67.2		aD67
03S 28W 06DCB 01	QA	2571	55	34	25.6	35.9	36.5	35.9	33.3	30.1	28.8	28.7	aD67
03S 28W 32BCA 01	TO	2749	180	133	133.6	132.5	130.5	130.4		129.1	130.7	128.1	aD62
03S 29W 12BBA 01	QA	2556	55	26	24.9	25.2	24.9	24.6	22.3	17.3	16.4	16.9	qD59
03S 29W 17DCB 01	QA,TO	2587	50	19	20.0	22.7	23.1	22.8	16.8	14.4	11.2	18.2	aD62
03S 29W 31DCC 01	QA	2633	38	20	20.3	24.2	24.3	25.2	24.0	20.2	19.5	19.5	aD62
03S 30W 03CBA 01	TO	2807	177	96	98.6	96.7	93.7		93.0	96.5	99.5	91.6	aD64
03S 30W 26BBB 01	QA	2629	49	7	10.2	15.7	5.1	5.7	5.2	0.4	10.5	0.6	aD62
04S 26W 08DDD 01	QA	2456	70	26	28.7	29.2	29.5	30.6	27.7	28.4	28.6	28.6	aD59
04S 26W 19DCA 01	QA	2464	37	14	14.0	15.0	15.6	15.7	14.6	14.2	14.7	14.7	aD62
04S 27W 17DAC 01	TO	2648	162	105	103.8	105.8	106.1			100.0	99.0	101.7	aD62
04S 27W 33BBB 01	QA	2528	54	13	16.0	18.0	18.4	18.1	18.1	10.0	18.8	16.5	aD62
04S 28W 15AAA 01	TO	2700	130	92	94.1	91.3		91.2	91.1	89.9	89.4	89.8	aD53
04S 28W 30DDD 01	TO	2726	110	92	92.7	90.5	91.6	89.9	88.8	89.2	89.6	91.4	aD62
04S 30W 07BBB 01	QA	2697	21	7	7.3	13.1		14.1	13.2	10.2	7.7	7.7	aD64
05S 26W 05ADD 01	TO	2607	170	128	128.9	126.2	126.5	125.8	125.6		126.3	124.9	aD62
05S 26W 26DDA 01	QA	2437	74	26	22.4	22.0	23.2	25.4	23.3	21.3	23.4	20.9	aD62
05S 26W 33DCC 01	QA	2475	60	20	18.2	19.9	18.4	18.9	18.4	16.9	22.3	17.0	aD62
05S 27W 21CCA 01	TO	2675		103	104.2	104.9	103.2	103.0	102.8	102.3	102.1	101.8	aD64
05S 28W 07BBC 01	QA	2644	52	19	19.9	19.3	19.3	18.9	13.9	14.3	15.1	14.2	aD64
05S 28W 10BBB 01	QA	2600	47	12	8.0	10.2	10.0	9.8	8.5	7.7	7.8	8.4	aD64
05S 28W 14ADD 01	TO	2723	160	133	135.0	133.6	133.6	133.2	133.2	131.3	137.5	136.3	aD62
05S 28W 17DAC 01	TO	2734	124	102	102.3	100.5	101.9	101.7		100.2	99.6		aD62
05S 29W 22CBB 01	QA	2686	46	11	12.6	13.5	12.8	13.9	11.7	11.4	12.4	11.9	aD66
05S 30W 15CCB 01		2878				93.8	97.6	98.2	97.3	91.9	91.5	90.3	aD84
05S 30W 35BCB 01	TO	2891	200	112	111.6	118.9	119.0	119.3	118.2	117.0	117.7	118.0	aD66

DECATUR COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, DECATUR COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
01S 26W 18DDB 01	QA	26.1	2	0.3	-0.6	0.0	0.0	31	33	6
01S 29W 03DDB 01	QA	23.9	-1	-0.9	-1.1	0.0	0.0	22	21	-5
01S 29W 19BDD 01	QA	14.9	-5	-4.0	-0.5	-0.1	-0.1	43	38	-12
01S 30W 34DDD 01	QA	21.0	-1	0.5	0.1	0.0	0.0	40	39	-3
02S 26W 11BBA 01	TO	81.8	3	5.5	0.8	0.1	0.2	25	28	12
02S 28W 13ABA 01		26.6	0	-0.4	-2.3	0.0	0.0			
02S 30W 23ADD 01										
03S 26W 30CBB 02	TO	121.7	-3	-2.3	0.9	-0.1	-0.1	23	20	-13
03S 27W 32ABA 01	TO									
03S 28W 06DCB 01	QA	28.7	5	-3.1	0.1	0.1	-0.1	21	26	24
03S 28W 32BCA 01	TO	128.1	5	5.5	2.6	0.1	0.2	47	52	11
03S 29W 12BBA 01	QA	16.9	9	8.0	-0.5	0.2	0.3	29	38	31
03S 29W 17DCB 01	QA,TO	18.2	1	1.8	-7.0	0.0	0.1	31	32	3
03S 29W 31DCC 01	QA	19.5	1	0.8	0.0	0.0	0.0	18	19	6
03S 30W 03CBA 01	TO	91.6	4	7.0	7.9	0.1	0.2	81	85	5
03S 30W 26BBB 01	QA	0.6	6	9.6	9.9	0.1	0.3	42	48	14
04S 26W 08DDD 01	QA	28.6	-3	0.1	0.0	-0.1	0.0	44	41	-7
04S 26W 19DCA 01	QA	14.7	-1	-0.7	0.0	0.0	0.0	23	22	-4
04S 27W 17DAC 01	TO	101.7	3	2.1	-2.7	0.1	0.1	57	60	5
04S 27W 33BBB 01	QA	16.5	-4	-0.5	2.3	-0.1	0.0	41	38	-7
04S 28W 15AAA 01	TO	89.8	2	4.3	-0.4	0.0	0.1	38	40	5
04S 28W 30DDD 01	TO	91.4	1	1.3	-1.8	0.0	0.0	18	19	6
04S 30W 07BBB 01	QA	7.7	-1	-0.4	0.0	0.0	0.0	14	13	-7
05S 26W 05ADD 01	TO	124.9	3	4.0	1.4	0.1	0.1	42	45	7
05S 26W 26DDA 01	QA	20.9	5	1.5	2.5	0.1	0.1	48	53	10
05S 26W 33DCC 01	QA	17.0	3	1.2	5.3	0.1	0.0	40	43	8
05S 27W 21CCA 01	TO	101.8	1	2.4	0.3	0.0	0.1			
05S 28W 07BBC 01	QA	14.2	5	5.7	0.9	0.1	0.2	33	38	15
05S 28W 10BBB 01	QA	8.4	4	-0.4	-0.6	0.1	0.0	35	39	11
05S 28W 14ADD 01	TO	136.3	-3	-1.3	1.2	-0.1	0.0	27	24	-11
05S 28W 17DAC 01	TO									
05S 29W 22CBB 01	QA	11.9	-1	0.7	0.5	0.0	0.0	35	34	-3
05S 30W 15CCB 01		90.3			1.2					
05S 30W 35BCB 01	TO	118.0	-6	-6.4	-0.3	-0.1	-0.2	88	82	-7

DOUGLAS COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, DOUGLAS COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1950	1966	1990	1991	1992	1993	1994	1995		1996
*12S 20E 07CBC 01		826			14.0	14.9	14.2	16.5	12.0	7.5	14.2	12.7	qD66
15S 19E 15AAD 01		1120				42.9	43.0		45.0	39.8			aM72

DOUGLAS COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, DOUGLAS COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
		1996								
*12S 20E 07CBC 01		12.7		1.3	1.5					
15S 19E 15AAD 01										

EDWARDS COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, EDWARDS COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
24S 16W 12CBC 01	QU	2055	130	5	9.2	26.7	28.6	30.5	32.0	27.7	28.9	26.1	aJ70
24S 17W 20ADC 01	QU	2126	121	3	15.8	30.6	32.0	34.0	34.9	34.4	36.2	35.3	aJ73
24S 17W 24DDD 01	QU	2100	170	15	13.3	32.1	33.4	34.9	34.8	32.8	35.4	34.5	qJ73
24S 18W 13DAC 01		2130	115			30.3	31.3	32.8	33.7	33.2	34.8	34.4	aJ86
24S 18W 17ABD 01	QU	2147	92	27	18.8	30.2	31.5	33.1	33.4	31.7	32.7	31.5	aJ73
24S 18W 28DAC 01	QU	2158	98	25	16.6	34.5	35.6	37.2	37.7	37.1	41.9	37.7	aJ73
24S 18W 36DDC 01	QU	2149	119	28	24.2	35.7	37.5	40.1		42.6		42.0	aJ72
24S 19W 34ADD 01	QA	2160		8	7.0	8.8	8.7	10.3	6.3	8.3	8.9	8.0	qJ61
25S 16W 02BBB 01	QU	2069	184	6	6.6	25.9	27.1	28.3	27.6	23.8	26.7	23.4	aJ73
25S 16W 27AAC 01	QU	2063	188	3	6.1	17.4	19.5	20.5	18.0	14.8		15.9	aJ73
25S 16W 31DCC 01	TO	2089				19.1	21.7	23.4	24.8	21.0	24.8		qJ81
25S 17W 01DAB 01	QU	2102	162	12	8.8	28.2	29.4	30.6	30.0	29.3	30.5	30.4	aJ45
25S 17W 17AAC 01	QU	2129	74	14	14.4	31.1	32.5	34.9	31.1	33.0	34.9	34.4	aJ73
25S 17W 31BBD 01	QU	2148	178	22	11.1	25.1		28.0	28.4	21.9	29.1	29.1	aJ64
25S 18W 09AAA 01	QU	2161	131	21	15.6	30.4	31.8	33.8	33.5	33.1	35.5	33.9	qJ73
25S 18W 20AAB 01						37.9	38.7	41.0	41.8	40.4	42.9	42.2	aJ88
25S 18W 33CDC 01	QU	2182	172	29	23.2	32.3	33.3	34.8	35.9	36.2	37.6	37.7	aJ72
25S 19W 08BDD 01						5.8	6.3	8.3	7.1	5.5	7.8	6.1	aJ84
25S 19W 26DDB 01	QU	2206	146	31	30.1	37.6	40.9	40.2	41.4	40.9	42.0	41.4	aJ73
25S 19W 31CAB 01	QU	2220		17	15.2	18.7	19.4	21.2	20.1			19.2	aJ73
25S 20W 03BCD 01		2237				27.5	29.6	30.7	30.1	27.3	29.4	29.7	aJ84
25S 20W 34CCC 01		2219				7.6	7.6	9.0	10.0	9.5	10.5	8.1	aJ45
26S 16W 10CCC 01	QU	2065	220	5	3.8	9.0	11.8	13.1	9.9	8.0	11.8	9.8	aJ73
26S 16W 31CCA 01	QU	2110	285	25	19.6	32.0	34.0	36.4	34.8	30.7	34.7	34.0	aJ73
26S 16W 34ABC 01	QU	2079	289	25	6.8	22.3	24.0	25.5	23.0	18.4	23.8	23.1	aJ66
26S 17W 14BAA 01	QU	2109	194	16	20.7	23.5	26.1	29.4	27.1	23.1	26.3	25.5	aJ73
26S 17W 33DDB 01	QU	2127	227	22	12.4	23.5	25.6	27.9	26.5	24.4	27.2	27.4	aJ73
26S 18W 15DCB 01	QU	2174	229	33	22.0	31.6	33.3	35.0	36.2	35.4	37.3	37.1	aJ69
26S 18W 31CCC 01		2215	195	47	33.6	47.6	49.2	51.6	52.4	51.6	53.1	51.7	aJ73
*26S 19W 12ABB 02		2210	155	38		49.0	45.6	47.4	53.3	53.6	54.2	54.5	qJ79
26S 19W 16BCB 01	QU	2231	176	35	29.4	39.1	40.1	41.6	42.3	42.1	42.8	42.1	aJ66
26S 19W 34BBD 01	QU	2232	187	36	30.8	40.6	41.8	43.0	44.1	44.3	45.0	44.6	aJ73
26S 20W 20BBC 01		2251		19		11.3	11.2	13.4	13.0	12.0	13.4	13.0	aJ85

EDWARDS COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, EDWARDS COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
24S 16W 12CBC 01	QU	26.1	-21	-16.9	2.8	-0.5	-0.6	125	104	-17
24S 17W 20ADC 01	QU	35.3	-32	-19.5	0.9	-0.7	-0.7	118	86	-27
24S 17W 24DDD 01	QU	34.5	-20	-21.2	0.9	-0.4	-0.7	155	136	-12
24S 18W 13DAC 01		34.4			0.4				81	
24S 18W 17ABD 01	QU	31.5	-5	-12.7	1.2	-0.1	-0.4	65	61	-6
24S 18W 28DAC 01	QU	37.7	-13	-21.1	4.2	-0.3	-0.7	73	60	-18
24S 18W 36DDC 01	QU	42.0	-14	-17.8		-0.3	-0.6	91	77	-15
24S 19W 34ADD 01	QA	8.0	0	-1.0	0.9	0.0	0.0			
25S 16W 02BBB 01	QU	23.4	-17	-16.8	3.3	-0.4	-0.6	178	161	-10
25S 16W 27AAC 01	QU	15.9	-13	-9.8		-0.3	-0.3	185	172	-7
25S 16W 31DCC 01	TO									
25S 17W 01DAB 01	QU	30.4	-18	-21.6	0.1	-0.4	-0.7	150	132	-12
25S 17W 17AAC 01	QU	34.4	-20	-20.0	0.5	-0.4	-0.7	60	40	-33
25S 17W 31BBD 01	QU	29.1	-7	-18.0	0.0	-0.2	-0.6	156	149	-4
25S 18W 09AAA 01	QU	33.9	-13	-18.3	1.6	-0.3	-0.6	110	97	-12
25S 18W 20AAB 01		42.2			0.7					
25S 18W 33CDC 01	QU	37.7	-9	-14.5	-0.1	-0.2	-0.5	143	134	-6
25S 19W 08BDD 01		6.1			1.7					
25S 19W 26DDB 01	QU	41.4	-10	-11.3	0.6	-0.2	-0.4	115	105	-9
25S 19W 31CAB 01	QU	19.2	-2	-4.0		0.0	-0.1			
25S 20W 03BCD 01		29.7			-0.3					
25S 20W 34CCC 01		8.1			2.4					
26S 16W 10CCC 01	QU	9.8	-5	-6.0	2.0	-0.1	-0.2	215	210	-2
26S 16W 31CCA 01	QU	34.0	-9	-14.4	0.7	-0.2	-0.5	260	251	-3
26S 16W 34ABC 01	QU	23.1	2	-16.3	0.7	0.0	-0.5	264	266	1
26S 17W 14BAA 01	QU	25.5	-10	-4.8	0.8	-0.2	-0.2	178	169	-5
26S 17W 33DDB 01	QU	27.4	-5	-15.0	-0.2	-0.1	-0.5	205	200	-2
26S 18W 15DCB 01	QU	37.1	-4	-15.1	0.2	-0.1	-0.5	196	192	-2
26S 18W 31CCC 01		51.7	-5	-18.1	1.4	-0.1	-0.6	148	143	-3
*26S 19W 12ABB 02		54.5	-17		-0.3	-0.4		117	101	-14
26S 19W 16BCB 01	QU	42.1	-7	-12.7	0.7	-0.2	-0.4	141	134	-5
26S 19W 34BBD 01	QU	44.6	-9	-13.8	0.4	-0.2	-0.5	151	142	-6
26S 20W 20BBC 01		13.0	6		0.4	0.1				

ELLIS COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, ELLIS COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1950	1966	1990	1991	1992	1993	1994	1995		1996
13S 18W 29CCC 01		2000				21.4	21.8			17.7		19.4	qD82
14S 18W 12AAD 01		2000				26.3	26.4			23.8		23.8	qD76
15S 18W 25CCD 01		1910				15.9				16.5		16.9	qD82
15S 19W 25CAB 01		1937				16.1	16.1			15.4		16.2	qD82

ELLIS COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, ELLIS COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	
13S 18W 29CCC 01		19.4								
14S 18W 12AAD 01		23.8								
15S 18W 25CCD 01		16.9								
15S 19W 25CAB 01		16.2								

ELLSWORTH COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, ELLSWORTH COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
17S 09W 20BCD 01		1770				23.6	25.5	25.7		17.3		19.0	qD61
17S 09W 21BCC 01		1775			92.2	81.3	81.1	95.1		78.2		83.1	qD66
17S 09W 28CBB 02		1761				35.9	36.3	37.4		32.8		32.0	qD66
17S 09W 31AAB 01		1762			99.6	60.4	51.5	51.3		48.7		45.7	qD66

ELLSWORTH COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, ELLSWORTH COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	
17S 09W 20BCD 01		19.0								
17S 09W 21BCC 01		83.1		9.1						
17S 09W 28CBB 02		32.0								
17S 09W 31AAB 01		45.7		53.9						

FINNEY COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, FINNEY COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
21S 31W 26CCC 01	QU,TO	2900		75			75.3	75.1	75.0	74.8	74.7	75.3	aU85
21S 32W 20CBD 01	QU,TO	2898	200	31	45.1	110.2	109.9	112.0	111.0	113.6	113.1	115.1	aJ64
21S 32W 26DAA 01	QU,TO	2946	171	96	98.8	109.5	109.1	109.1	109.2	108.2	109.5		aJ61
21S 33W 29BBC 01		2891	106	16		85.9	88.3	86.2	87.0		87.6	87.1	aJ85
+21S 34W 14DBB 01	KN	2947	97	56	69.0	106.4	110.7	101.0		106.9	99.9	101.6	aJ61
22S 27W 14ADC 01	KJ	2458				178.4	178.1	178.7	172.2	173.2	174.5	168.3	aJ70
22S 31W 08CCC 01		2911	171	81		102.7	102.0	97.9	102.9	103.3	104.7	106.1	aJ85
22S 31W 16ADD 01	QU,TO	2904	181	84	85.5	110.0	109.9	111.3	113.7	113.5			aJ61
22S 32W 08ACB 01	QU,TO	2884	224	33	40.0	99.2	99.3	101.6	102.6	102.9	104.2	105.4	aJ60
22S 32W 21CDC 01	QU,TO	2903	198	58	66.4	134.1	136.4	138.0	137.9	138.6	140.0	143.3	aJ58
22S 33W 22BAA 01	QU,TO	2900	190	40	47.1		125.3		127.8	132.4	133.8	137.5	qJ60
+22S 34W 08BCB 01	KN	2987	132	87	108.9	134.9	138.3	141.3	135.4	135.4	135.6	135.5	aJ61
22S 34W 10AAA 01	QU,TO	2933	153	43	59.2	107.6	107.3	107.3	108.1	108.4	107.7	107.7	aJ61
22S 34W 18CDD 01		2984	234	67		148.4	145.8	149.1		151.8	152.6	151.3	aJ85
22S 34W 26CCC 01		2939				172.8	173.3	174.5	174.5	172.3	170.4	170.7	qJ85
23S 27W 22DAB 01	TO,TO	2654		82		81.5		80.3	79.1	76.7	76.0	75.8	aJ76
23S 28W 22DCD 01	QU,TO	2729		74		75.1	76.2	75.8	75.3	74.4	74.9	74.9	aJ76
23S 28W 34DDC 01	QU,TO	2738		76		92.9	93.2		94.2	94.4	94.2	94.9	aJ76
23S 29W 30BBB 01	QU,TO	2794		75		84.4	78.4	78.5	78.3	77.7	78.0	78.2	aJ76
23S 29W 34CDD 01	TO	2772	147	84	84.0	89.9	88.8	91.0	89.7	87.8	89.3	89.4	aJ66
23S 30W 04ACC 01	QU,TO	2846		65		68.6	68.5	69.0	69.6	69.4	70.0	70.3	aJ76
23S 30W 19CCB 01	QU,TO	2862	142	89	82.2	87.4	89.4	90.3	90.9	90.6	90.7	91.0	aJ61
23S 31W 03DCD 01	QU,TO	2877	167	72	83.0	116.9	110.6		119.7	116.7	112.1	112.6	aJ61
23S 31W 17ABA 01		2900	210	90		112.6	112.4	113.9	113.8	113.6	114.6	115.7	aJ85
23S 32W 31CBD 01	QU,TO	2876	324	41	49.4	85.8	90.8	94.8	88.3	85.6	86.8	86.5	aJ58
23S 33W 26ABB 01	QU,TO	2890	327	42	50.4	106.5	108.3	110.8	101.7	102.1	104.5	101.4	aJ58
23S 33W 28CDC 01	TO,TO	2904		46	61.2	104.3	103.9	109.3	101.0	94.5	99.5	99.6	qJ58
23S 34W 17CCC 01	QU,TO	2974	349	46	70.0	130.8	135.1	142.8	135.9	129.8	133.5	130.3	aJ58
23S 34W 21DDC 01	QU,TO	2961	356	41	71.6	123.4	120.2	131.0	121.4	113.9		117.4	mJ58
24S 31W 27CCB 01	QU,TO	2883	295	114	119.5	142.0	136.6	142.9	138.6	139.9	143.7	141.4	qD42
24S 33W 09CCD 01	QU	2865	355	11		48.5	49.6	52.7	52.2	47.6	51.5	48.1	mJ77
24S 33W 09CCD 02	QA	2865				14.6	16.8	19.3	22.2	14.1	17.6	12.5	mJ77
24S 33W 09CCD 03	KD	2865				60.3	63.1	65.4	61.8	58.0	62.0	59.2	mJ80
24S 33W 18BDB 02		2878	338	8		94.2	101.7	107.8	101.6	84.7	101.0	84.3	aJ79
24S 33W 19DBB 02		2928	447	57		135.6	143.5	142.8	143.0	131.4	148.3	128.4	aJ77
24S 33W 22BCC 01		2888		38		71.1	70.6	75.1	78.3	73.8	76.0	74.2	qD75
24S 33W 22DCA 01	QU,TO	2905	405	71		109.0	111.2	113.7	112.6	111.4	114.5	113.5	qD73
24S 33W 28DAA 01	QU,TO	2886	386	34			100.7	103.0	101.6	102.4	104.8	105.0	qD73
24S 33W 34CAC 01	QU,TO	2910	435	60		127.9	130.3	133.1	131.6	132.6	135.5	136.8	aD74
24S 34W 01BCBB01	QU,TO	2894	316	12	24.7	64.2	53.6	60.3	55.8	47.7	50.8	49.3	aJ61
25S 32W 22DBC 01	QU,TO	2865	373	65	62.0	131.0	116.6	113.5	113.8	115.0	118.3	119.6	aD68
25S 32W 31DDC 01		2871				117.6	119.7	125.5	126.7	127.7	129.7	136.2	qD83
25S 32W 35ADB 01	QU,TO	2857	417	67	68.0	109.8	111.7	114.9	116.3	117.8	121.0	123.3	aD60
25S 33W 03BCC 01		2902		47		52.8	50.4	53.1	52.6		55.1	55.4	qD75
25S 33W 05ABD 01	QU,TO	2920	510	52		129.4	132.2	135.9	134.8	137.8	140.5	141.6	qD73

TABLE 1. SELECTED HYDROLOGIC DATA, FINNEY COUNTY (cont'd)

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
25S 33W 09ABD 01	QU,TO	2909	514	50		125.3	128.2	131.3	130.0	131.8	134.8	136.9	qD73
*25S 33W 15DAC 01	QU,TO	2915	535	71		146.5	150.3	152.7	151.4	153.6	156.7	157.5	qD72
25S 33W 16DCC 01		2920		62		94.1	89.4	89.9	90.1	89.1	90.0	91.4	qD75
25S 33W 17DBD 01	QU,TO	2940	530	78		148.1	151.4	155.1	153.8	157.5	160.5	163.2	qD73
25S 33W 33CDA 01		2915	460	65		132.1	135.5	140.8	142.8	144.9	147.9	152.6	aJ85
25S 34W 06AAA 01	QU,TO	2972	397	52		117.6	118.8	125.4	128.9	129.1	132.4	135.3	aJ75
25S 34W 10ABB 01	QU,TO	2962	412	62		106.1	105.9	106.6	108.4	107.5	110.8	111.4	qJ75
25S 34W 34DBD 01	QU,TO	2945	440	65	70.0	146.5	150.7	140.1	143.9	146.6	151.6	154.0	aJ70
26S 31W 01DDA 01	QU,TO	2811	301	75	74.0	113.6	115.5	118.3	120.1	121.1	123.8	126.5	aD59
26S 31W 06BBBB01	QU,TO	2832	327	55	55.6	97.5	102.2	102.2	104.0	105.4	108.6	111.4	aD61
26S 31W 31CDC 01	QU,TO	2841	496	83	86.1	145.7	148.3	152.3	153.1	155.9	160.1	164.1	aJ61
26S 31W 36CAB 01	QU,TO	2817	332	82	80.3	134.3	138.0	139.1	141.3	142.2	146.7	158.4	aD61
26S 32W 22ABB 01	QU,TO	2899	564	113	115.6	155.1	156.4	159.1	165.7	168.4	162.4	163.4	aD62
26S 33W 17DBD 01		2900	520	60		124.6	127.9	132.2	137.1	143.7			aJ81
26S 34W 21BBD 01		2955		77		146.7	150.9		159.5	162.0	166.2	170.3	aJ81

FINNEY COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, FINNEY COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	1940-96
21S 31W 26CCC 01	QU,TO	75.3	0		-0.6	0.0				
21S 32W 20CBD 01	QU,TO	115.1	-84	-70.0	-2.0	-1.5	-2.3	169	85	-50
21S 32W 26DAA 01	QU,TO									
21S 33W 29BBC 01		87.1	-71		0.5	-1.3		90	19	-79
+21S 34W 14DBB 01	KN	101.6	-46	-32.6	-1.7	-0.8	-1.1	41	-5	-112
22S 27W 14ADC 01	KJ	168.3			6.2					
22S 31W 08CCC 01		106.1	-25		-1.4	-0.4		90	65	-28
22S 31W 16ADD 01	QU,TO									
22S 32W 08ACB 01	QU,TO	105.4	-72	-65.4	-1.2	-1.3	-2.2	191	119	-38
22S 32W 21CDC 01	QU,TO	143.3	-85	-76.9	-3.3	-1.5	-2.6	140	55	-61
22S 33W 22BAA 01	QU,TO	137.5	-98	-90.4	-3.7	-1.8	-3.0	150	53	-65
+22S 34W 08BCB 01	KN	135.5	-49	-26.6	0.1	-0.9	-0.9	45	-4	-109
22S 34W 10AAA 01	QU,TO	107.7	-65	-48.5	0.0	-1.2	-1.6	110	45	-59
22S 34W 18CDD 01		151.3	-84		1.3	-1.5		167	83	-50
22S 34W 26CCC 01		170.7			-0.3					
23S 27W 22DAB 01	TO,TO	75.8	6		0.2	0.1				
23S 28W 22DCD 01	QU,TO	74.9	-1		0.0	0.0				
23S 28W 34DDC 01	QU,TO	94.9	-19		-0.7	-0.3				
23S 29W 30BBB 01	QU,TO	78.2	-3		-0.2	-0.1				
23S 29W 34CDD 01	TO	89.4	-5	-5.4	-0.1	-0.1	-0.2	63	58	-8
23S 30W 04ACC 01	QU,TO	70.3	-5		-0.3	-0.1				
23S 30W 19CCB 01	QU,TO	91.0	-2	-8.8	-0.3	0.0	-0.3	53	51	-4
23S 31W 03DCD 01	QU,TO	112.6	-41	-29.6	-0.5	-0.7	-1.0	95	54	-43
23S 31W 17ABA 01		115.7	-26		-1.1	-0.5		120	94	-22
23S 32W 31CBD 01	QU,TO	86.5	-46	-37.1	0.3	-0.8	-1.2	283	238	-16
23S 33W 26ABB 01	QU,TO	101.4	-59	-51.0	3.1	-1.1	-1.7	285	226	-21
23S 33W 28CDC 01	TO,TO	99.6	-54	-38.4	-0.1	-1.0	-1.3			
23S 34W 17CCC 01	QU,TO	130.3	-84	-60.3	3.2	-1.5	-2.0	303	219	-28
23S 34W 21DDC 01	QU,TO	117.4	-76	-45.8		-1.4	-1.5	315	239	-24
24S 31W 27CCB 01	QU,TO	141.4	-27	-21.9	2.3	-0.5	-0.7	181	154	-15
24S 33W 09CCD 01	QU	48.1	-37		3.4	-0.7		344	307	-11
24S 33W 09CCD 02	QA	12.5			5.1					
24S 33W 09CCD 03	KD	59.2			2.8					
24S 33W 18BDB 02		84.3	-76		16.7	-1.4		330	254	-23
24S 33W 19DBB 02		128.4	-71		19.9	-1.3		390	319	-18
24S 33W 22BCC 01		74.2	-36		1.8	-0.6				
24S 33W 22DCA 01	QU,TO	113.5	-43		1.0	-0.8		334	292	-13
24S 33W 28DAA 01	QU,TO	105.0	-71		-0.2	-1.3		352	281	-20
24S 33W 34CAC 01	QU,TO	136.8	-77		-1.3	-1.4		375	298	-21
24S 34W 01BCBB01	QU,TO	49.3	-37	-24.6	1.5	-0.7	-0.8	304	267	-12
25S 32W 22DBC 01	QU,TO	119.6	-55	-57.6	-1.3	-1.0	-1.9	308	253	-18
25S 32W 31DDC 01		136.2			-6.5					
25S 32W 35ADB 01	QU,TO	123.3	-56	-55.3	-2.3	-1.0	-1.8	350	294	-16
25S 33W 03BCC 01		55.4	-8		-0.3	-0.1				
25S 33W 05ABD 01	QU,TO	141.6	-90		-1.1	-1.6		458	368	-20
25S 33W 09ABD 01	QU,TO	136.9	-87		-2.1	-1.6		464	377	-19
*25S 33W 15DAC 01	QU,TO	157.5	-87		-0.8	-1.6		464	378	-19
25S 33W 16DCC 01		91.4	-29		-1.4	-0.5				
25S 33W 17DBD 01	QU,TO	163.2	-85		-2.7	-1.5		452	367	-19
25S 33W 33CDA 01		152.6	-88		-4.7	-1.6		395	307	-22

TABLE 2. DERIVED HYDROLOGIC DATA, FINNEY COUNTY (cont'd)

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	1940-96
		1996								
25S 34W 06AAA 01	QU,TO	135.3	-83		-2.9	-1.5		345	262	-24
25S 34W 10ABB 01	QU,TO	111.4	-49		-0.6	-0.9		350	301	-14
25S 34W 34DBD 01	QU,TO	154.0	-89	-84.0	-2.4	-1.6	-2.8	375	286	-24
26S 31W 01DDA 01	QU,TO	126.5	-52	-52.5	-2.7	-0.9	-1.8	226	175	-23
26S 31W 06BBB01	QU,TO	111.4	-56	-55.8	-2.8	-1.0	-1.9	272	216	-21
26S 31W 31CDC 01	QU,TO	164.1	-81	-78.0	-4.0	-1.4	-2.6	413	332	-20
26S 31W 36CAB 01	QU,TO	158.4	-76	-78.1	-11.7	-1.4	-2.6	250	174	-30
26S 32W 22ABB 01	QU,TO	163.4	-50	-47.8	-1.0	-0.9	-1.6	451	401	-11
26S 33W 17DBD 01										
26S 34W 21BBD 01		170.3	-93		-4.1	-1.7				

FORD COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, FORD COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
25S 22W 20AAA 01	TO	2438		65	62.6	59.2	59.0	61.1	58.7	58.2	58.0	57.8	qD39
25S 22W 27CCD 01	KD	2432				133.7	135.0	142.8	57.9	46.2	45.6	44.0	qD70
25S 23W 11CCC 01	KD	2424				93.0	81.7	93.0	89.9	46.9	53.3	65.6	aD68
25S 23W 12BBB 01	KD	2390				155.0	154.7	164.7	155.7	152.9	162.7	161.2	qD72
25S 25W 32CDD 01	QU,KD	2607				194.1	202.1	202.6	196.4	197.5	201.4	203.5	aJ81
25S 25W 32DAD 01		2593				74.3	75.0	75.7	75.3	74.5	74.5	74.6	aJ85
25S 26W 25CDD 01	TO	2623	187	79		84.5	87.1	78.5		77.0		78.6	aJ77
25S 26W 30ABC 01	TO	2679	225	104		115.4	115.0	114.7	114.6	113.9	115.1	115.3	aJ77
26S 21W 17DBC 01	KD	2348				62.0	62.8	65.3	63.7		67.6	68.8	qD73
26S 21W 23ADA 01	QA	2262		6	7.3	8.9	6.2	7.0	8.3		7.3	7.0	qD38
26S 21W 25CCC 01		2270				6.2	5.1	8.2	6.4	7.0	8.4	7.7	aJ85
26S 22W 21DCD 01		2377				40.3	39.5	41.8	41.2	39.7	41.1	40.8	aJ82
26S 23W 02ABB 01		2451				81.2			80.9	81.1	80.9	85.0	aJ85
26S 23W 10DAD 01		2463				177.2	177.2	179.8	179.8	184.8	179.8	180.5	qD68
26S 24W 29DDD 01	TO	2575		130		139.4	143.8	149.1	146.4	146.9	151.4	152.5	qD68
26S 24W 31DDA 01	TO	2463		11		18.9	20.3	26.6	24.3	22.5	30.8	25.4	qD68
26S 24W 33CDA 01	TO	2466		26		33.0	33.5	40.8	39.5	38.9	44.4	44.1	aD68
26S 25W 16DCC 01		2619				141.7	141.8	145.5	145.8			147.8	aJ80
26S 26W 18CCB 01		2558				10.6	13.6	13.8	16.2	14.7	17.2	15.1	aJ81
26S 26W 32DCC 01		2616		74		89.2	91.4	95.8	95.4	95.5	99.4	101.5	qD77
26S 26W 36DCC 01	TO	2543	168	31		43.3	52.6	57.3	48.8	49.2	50.8	50.3	aJ77
27S 21W 10DBB 01		2291				6.7	7.6	8.0	5.7	6.6	7.3	5.5	aJ85
27S 23W 24BCB 01	KD	2395				53.1	57.2	74.6	61.8	57.6	84.9	74.6	aD74
27S 23W 36CCC 01	TO	2428	147	46		46.8		47.8	47.9	47.9	48.6	49.3	aJ77
27S 24W 03BBB 01	TO	2455		19		24.8	25.3	27.1	28.1	18.0	30.6	33.0	aD68
27S 24W 03CDD 01	TO	2445				13.8	14.9	18.8	17.7	31.0	21.4	21.8	qD73
27S 24W 04BBC 01	TO	2453		11		16.7	19.5	24.2	22.3	23.2	30.8	30.6	qD68
27S 24W 09AAD 01	TO	2448		10		23.2	24.7	28.3	26.8	27.1	30.8	31.5	aD72
27S 24W 16BDB 01		2515				78.6	79.6	83.1	82.9	82.5	85.3	86.3	qD73
27S 24W 26DAA 01	TO	2512	191	79			93.9	95.7	95.5	95.6	96.7	97.9	aJ77
27S 25W 09ACA 01		2546				68.7	70.8	73.2	73.9	74.1	76.8	76.2	aJ81
27S 25W 25BBB 01		2574				119.8	120.8	123.0	122.9	123.5	124.6	125.6	aJ81
28S 21W 10DDD 01		2349		41		42.9	47.5	46.4	46.6	47.0	48.0	48.4	aJ77
28S 21W 23DBC 01	TO	2370				76.0	77.5		79.6	80.0	80.8	81.4	aJ77
28S 21W 25ABB 01		2365	149			71.2	72.4	74.9	73.9	74.7	75.5	75.8	aJ81
28S 22W 05ADD 01		2370				19.3	19.0	19.4	19.2	19.6	20.9	20.7	aJ81
28S 22W 12CAC 01	TO	2405	82	66		62.8	69.5	63.9	64.5	64.4	65.6	65.7	aJ76
28S 22W 32BAB 01	TO	2485	161	121		132.8	139.7	142.1	125.8	125.9	126.7	127.1	aJ77
28S 23W 18BAB 01		2547	239			138.5	144.7	140.0	140.5	141.0	141.8	142.6	aJ81
28S 23W 24ABB 01		2465				95.7	101.7	96.6		97.1	97.8	98.0	aJ80
28S 24W 08DCC 01		2578		133		143.4	144.4	146.1	146.1	146.2	170.6	160.3	qD77
*28S 24W 22CDA 01		2500				108.3	109.3	110.6	111.1	111.5	112.3	117.7	aJ76
*28S 24W 35CAB 01		2528	450			104.1	111.8	106.1	106.9	107.0	107.8	112.1	aJ81
28S 25W 06ABB 01		2643		144		151.6	161.1	154.7	154.0	154.7	170.3	165.2	qD72
28S 25W 19BBB 01	TO	2635	265	133		147.3	164.5	151.1	151.0	150.7	153.5	154.8	aJ77

TABLE 1. SELECTED HYDROLOGIC DATA, FORD COUNTY (cont'd)

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
28S 26W 06ABB 01	TO	2685	195	133		172.5	184.4	174.2	168.9	169.6	172.4	173.8	aJ77
28S 26W 13CAA 01		2635				141.6	142.9	144.4	145.4	144.9			qD78
29S 21W 05BBB 01	TO	2418		98	96.6	100.9	101.3	102.2	102.1	101.8	102.8	99.5	qD56
29S 21W 20CAD 01		2445				134.6	136.7	135.8	135.8	135.8	136.3	139.0	aJ80
29S 22W 17DAD 01	TO	2475	240	119		129.3	143.8	136.1	131.4	131.5	132.5	133.1	aJ77
29S 22W 36ACA 01	TO	2445	242			136.8		137.8		137.9	138.6	140.0	aJ79
29S 24W 01ABA 01		2560				145.6	146.3	147.5	148.0	148.2	149.1	149.9	aJ76
29S 24W 13BCA 01	TO	2530	212			114.9	115.5	116.3	116.1	116.4	117.3	117.7	aJ80
29S 24W 18BAA 01		2610				159.6	160.6	160.4	160.7	161.3	161.5	162.6	aJ76
29S 25W 03ADA 01	TO	2630	220	152		184.9	193.5	192.2	188.5	188.0			aJ77
29S 25W 10BBBC01	TO	2617		139		165.3			166.1	164.5	167.4	170.4	aJ78
29S 26W 29ABB 01		2558				93.1	96.6	102.5	102.4	102.7	103.6	105.0	aJ71
29S 26W 36BBB 01		2532				30.4	33.1	37.2	33.8	33.8	36.1	37.6	aJ77

FORD COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, FORD COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	1940-96
25S 22W 20AAA 01	TO	57.8	7	4.8	0.2	0.1	0.2			
25S 22W 27CCD 01	KD	44.0			1.6					
25S 23W 11CCC 01	KD	65.6			-12.3					
25S 23W 12BBB 01	KD	161.2			1.5					
25S 25W 32CDD 01	QU,KD	203.5			-2.1					
25S 25W 32DAD 01		74.6			-0.1					
25S 26W 25CDD 01	TO	78.6	0			0.0		108	108	0
25S 26W 30ABC 01	TO	115.3	-11		-0.2	-0.2		121	110	-9
26S 21W 17DBC 01	KD	68.8			-1.2					
26S 21W 23ADA 01	QA	7.0	-1	0.3	0.3	0.0	0.0			
26S 21W 25CCC 01		7.7			0.7					
26S 22W 21DCD 01		40.8			0.3					
26S 23W 02ABB 01		85.0			-4.1					
26S 23W 10DAD 01		180.5			-0.7					
26S 24W 29DDD 01	TO	152.5	-23		-1.1	-0.4				
26S 24W 31DDA 01	TO	25.4	-14		5.4	-0.3				
26S 24W 33CDA 01	TO	44.1	-18		0.3	-0.3				
26S 25W 16DCC 01		147.8								
26S 26W 18CCB 01		15.1			2.1					
26S 26W 32DCC 01		101.5	-28		-2.1	-0.5				
26S 26W 36DCC 01	TO	50.3	-19		0.5	-0.3		137	118	-14
27S 21W 10DBB 01		5.5			1.8					
27S 23W 24BCB 01	KD	74.6			10.3					
27S 23W 36CCC 01	TO	49.3	-3		-0.7	-0.1		101	98	-3
27S 24W 03BBD 01	TO	33.0	-14		-2.4	-0.3				
27S 24W 03CDD 01	TO	21.8			-0.4					
27S 24W 04BBC 01	TO	30.6	-20		0.2	-0.4				
27S 24W 09AAD 01	TO	31.5	-22		-0.7	-0.4				
27S 24W 16BDB 01		86.3			-1.0					
27S 24W 26DAA 01	TO	97.9	-19		-1.2	-0.3		112	93	-17
27S 25W 09ACA 01		76.2			0.6					
27S 25W 25BBB 01		125.6			-1.0					
28S 21W 10DDD 01		48.4	-7		-0.4	-0.1				
28S 21W 23DBC 01	TO	81.4			-0.6					
28S 21W 25ABB 01		75.8			-0.3				73	
28S 22W 05ADD 01		20.7			0.2					
28S 22W 12CAC 01	TO	65.7	0		-0.1	0.0		16	16	0
28S 22W 32BAB 01	TO	127.1	-6		-0.4	-0.1		40	34	-15
28S 23W 18BAB 01		142.6			-0.8				96	
28S 23W 24ABB 01		98.0			-0.2					
28S 24W 08DCC 01		160.3	-27		10.3	-0.5				
*28S 24W 22CDA 01		117.7			-5.4					
*28S 24W 35CAB 01		112.1			-4.3				338	
28S 25W 06ABB 01		165.2	-21		5.1	-0.4				
28S 25W 19BBB 01	TO	154.8	-22		-1.3	-0.4		132	110	-17
28S 26W 06ABB 01	TO	173.8	-41		-1.4	-0.7		62	21	-66
28S 26W 13CAA 01										
29S 21W 05BBB 01	TO	99.5	-2	-2.9	3.3	0.0	-0.1			
29S 21W 20CAD 01		139.0			-2.7					
29S 22W 17DAD 01	TO	133.1	-14		-0.6	-0.3		121	107	-12

TABLE 2. DERIVED HYDROLOGIC DATA, FORD COUNTY (cont'd)

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	1940-96
29S 22W 36ACA 01		140.0			-1.4				102	
29S 24W 01ABA 01	TO	149.9	-10		-0.8	-0.2		80	70	-13
29S 24W 13BCA 01		117.7			-0.4				94	
29S 24W 18BAA 01	TO	162.6	-14		-1.1	-0.3		61	47	-23
29S 25W 03ADA 01	TO									
29S 25W 10BBBC01		170.4	-31		-3.0	-0.6				
29S 26W 29ABB 01		105.0			-1.4					
29S 26W 36BBB 01	TO	37.6	-12		-1.5	-0.2		186	174	-6

GEARY COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, GEARY COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
11S 06E 27CBB 01		1057			20.7	17.4	21.0	22.4	19.5	11.9		19.0	qD66

GEARY COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, GEARY COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
		11S 06E 27CBB 01	19.0		1.7			0.1		

GOVE COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, GOVE COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
*11S 26W 04CDC 01	TO	2583	190	62	60.0	64.4	64.6	67.1	66.1	62.0	64.4	63.9	aJ70
11S 27W 13ABB 01		2671				126.5		128.5	127.3	117.5			aJ84
*11S 27W 36BCC 01	TO	2676	140	71		76.3	77.3	76.7	76.4	73.2	75.7	78.5	aJ70
*11S 28W 08AAA 01		2797				116.1	116.3	122.0	121.6	119.0	119.0	120.4	aJ84
*11S 29W 04DAD 01	TO	2844	170	109		113.2	113.4	113.8	113.4	112.9	113.4	113.2	aJ68
*11S 29W 33BBA 01		2857				105.2	105.4	105.4	105.5	103.6	103.6	102.6	aJ84
*11S 30W 27ABB 01	TO	2922	165	117		128.8	127.9	129.3	129.6	125.3	126.3	125.8	aJ70
*11S 30W 28CBA 01		2925				125.1	125.5	125.1	125.3	122.2	122.9	122.7	aJ85
*11S 30W 36CBB 01		2885				107.3	104.8	107.3	106.3	104.2	103.9	103.9	aJ85
*11S 31W 12AAB 01	TO	2959				105.0	108.4	106.9	105.7	104.9	104.7	108.8	aJ70
*11S 31W 27ADC 01		2913				51.4	51.8	52.3	51.7	48.8	49.8	50.0	aJ84
*11S 31W 35BDC 01		2951				100.0			100.4	98.4	98.9	98.4	aJ84
*12S 26W 12BCC 01	TO	2573				38.1	38.7	41.1	41.1	38.2	34.5	35.8	aJ70
*12S 27W 10CCB 01		2700				79.0	78.4	79.5	78.4	75.1	75.1	76.7	aJ85
*12S 28W 07DDD 01		2742				49.5	49.6	49.6	48.1	43.6	48.1	47.3	aJ84
*12S 28W 12DDD 01	TO	2741				95.1	95.1	95.5	94.3	92.8	93.1	92.2	aJ68
*13S 26W 20CBC 01	QA	2432	43		11.1	14.5	15.7	16.7	14.7	10.8	8.3	5.9	aJ71

GOVE COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, GOVE COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
*11S 26W 04CDC 01	TO	63.9	-2	-3.9	0.5	0.0	-0.1	128	126	-2
11S 27W 13ABB 01										
*11S 27W 36BCC 01	TO	78.5	-8		-2.8	-0.2		69	62	-10
*11S 28W 08AAA 01		120.4			-1.4					
*11S 29W 04DAD 01	TO	113.2	-4		0.2	-0.1		61	57	-7
*11S 29W 33BBA 01		102.6			1.0					
*11S 30W 27ABB 01	TO	125.8	-9		0.5	-0.2		48	39	-19
*11S 30W 28CBA 01		122.7			0.2					
*11S 30W 36CBB 01		103.9			0.0					
*11S 31W 12AAB 01	TO	108.8			-4.1					
*11S 31W 27ADC 01		50.0			-0.2					
*11S 31W 35BDC 01		98.4			0.5					
*12S 26W 12BCC 01	TO	35.8			-1.3					
*12S 27W 10CCB 01		76.7			-1.6					
*12S 28W 07DDD 01		47.3			0.8					
*12S 28W 12DDD 01	TO	92.2			0.9					
*13S 26W 20CBC 01	QA	5.9		5.2	2.4		0.2		37	

GRAHAM COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, GRAHAM COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1950	1966	1990	1991	1992	1993	1994	1995		1996
06S 21W 19CDC 01	TO	2305	135			100.3	101.0	99.8	98.9	95.2			aD78
*06S 22W 19CCC 01	TO	2395	198			107.3	107.2	107.0	107.0	106.4	105.3	104.3	aD76
*06S 23W 13BBB 01	TO	2340	183	55		56.9	57.1	57.8	56.9	53.5	52.3	50.8	aD76
*06S 23W 17CCA 01		2406				74.0	73.9	74.1	73.4	72.3	69.5	67.7	aD84
*06S 24W 14AAA 01		2527				117.3	116.4	118.9	118.6	118.8	115.6	111.3	aD84
*06S 24W 28BAB 01	TO	2478		96		102.0		101.5		99.0	94.3	94.4	qD76
*06S 25W 12CCC 01	TO	2538	224	135		142.5	142.6	142.5	142.8	142.1	141.6	141.5	aD76
*06S 25W 28CBC 01	TO	2540	180	109	102.7	108.1	109.4	110.0	109.8	107.2	107.9	108.7	qD62
*07S 22W 10BBC 01	TO	2217	72	6		8.7	8.5	7.9	7.6	7.9	8.2	8.3	aD78
*07S 22W 19BBB 01	TO	2295	63	39		37.6	37.4	38.5	35.3	30.6	32.5	32.7	aD76
07S 24W 08CBA 01	TO	2519	244	126			127.6	128.1	127.6	126.8	128.0		aD78
*07S 25W 24BBB 01	TO	2495	210	85		88.4	88.6	89.0		87.5	86.9	86.0	aD78
*07S 25W 33DDD 01		2502				100.7	101.4	101.1	99.3	97.3	98.4	99.1	aD84
*08S 21W 17ABB 01	QA	2035				23.2	23.1	24.2	24.4	19.7	21.1	20.1	qD75
*08S 22W 18CDC 01	QA	2122				8.7	9.8	9.3	8.9	7.4	7.8	8.0	qD77
*08S 24W 23ACC 01	QA	2242				35.6	35.9	36.7	36.0	31.3	32.1	30.0	qD76
08S 25W 24BAB 01		2302				29.5	29.1	29.7	29.2	25.2		26.7	aD84
*09S 24W 22BAA 01	TO	2491	110	94		92.7	92.4	93.0	92.1	89.0	88.7	87.0	aD77
*09S 25W 14DDD 01	TO	2534	134	90		92.2	92.0	92.2		89.6	89.1	88.8	aD79

GRAHAM COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, GRAHAM COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
06S 21W 19CDC 01	TO									
*06S 22W 19CCC 01	TO	104.3			1.0				94	
*06S 23W 13BBB 01	TO	50.8	4		1.5	0.1		128	132	3
*06S 23W 17CCA 01		67.7			1.8					
*06S 24W 14AAA 01		111.3			4.3					
*06S 24W 28BAB 01	TO	94.4	2		-0.1	0.0				
*06S 25W 12CCC 01	TO	141.5	-7		0.1	-0.2		89	83	-7
*06S 25W 28CBC 01	TO	108.7	0	-6.0	-0.8	0.0	-0.2	71	71	0
*07S 22W 10BBC 01	TO	8.3	-2		-0.1	0.0		66	64	-3
*07S 22W 19BBB 01	TO	32.7	6		-0.2	0.1		24	30	25
07S 24W 08CBA 01	TO									
*07S 25W 24BBB 01	TO	86.0	-1		0.9	0.0		125	124	-1
*07S 25W 33DDD 01		99.1			-0.7					
*08S 21W 17ABB 01	QA	20.1			1.0					
*08S 22W 18CDC 01	QA	8.0			-0.2					
*08S 24W 23ACC 01	QA	30.0			2.1					
08S 25W 24BAB 01		26.7								
*09S 24W 22BAA 01	TO	87.0	7		1.7	0.2		16	23	44
*09S 25W 14DDD 01	TO	88.8	1		0.3	0.0		44	45	2

GRANT COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, GRANT COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
27S 35W 17ADD 01	QU,TO	3086	462	175	185.7	256.7	259.8	264.9	269.2	272.4	278.1	278.7	aU54
27S 35W 25BDC 01		3046				240.5	242.0	246.7	249.9	252.8	256.9	261.8	aJ82
27S 36W 21DCC 01	QU,TO	3132		199		287.4	289.0	293.8	296.3	298.3	302.2	305.2	aJ60
27S 37W 04ABB 01	QU,TO	3080	316	70	86.4	191.7	186.2	187.4	189.1	189.3	192.0	194.1	aJ58
27S 37W 16AAD 01		3075		54		229.1	222.7	225.9	226.9	226.2	229.6	230.5	aJ84
27S 37W 21BDD 01		3058		58		214.0	205.9	208.7	209.3	207.8	212.1	213.3	aJ67
27S 38W 12ADC 01	QU,TO	3076	280	34	65.5	208.2	202.2	204.1	205.6	203.0	205.2	207.1	aJ60
27S 38W 15BBB 01		3148			132.9	181.5	178.7	172.2	181.1	179.6	182.4	183.2	aJ58
27S 38W 23CBB 01	QU,TO	3105	335	50	98.2	161.6	161.1	160.0	161.2	160.8	161.1	163.7	aJ43
28S 35W 03DBB 01		3079				288.0	288.9	292.0	294.4	297.0	303.3	302.9	aJ84
28S 35W 05BCC 01	QU,TO	3117	457	237	253.2	329.4	330.2	332.8		334.6	338.4	340.9	aJ64
28S 35W 36ABC 01	QU,TO	3032	572	222	236.4		323.8	326.9		330.2	332.8	336.0	aJ59
28S 36W 18ABC 01		3050	345	95		235.6	232.6	240.7	240.6	238.0	240.8	247.3	aJ84
28S 37W 02BBB 04		3072				255.6	251.0	253.7	255.5	253.3	256.9	258.3	aJ81
28S 38W 33BDB 01		3125				213.2	214.4	218.9			227.8	230.3	aJ82
29S 35W 07CBD 01	QU,TO	3036	441	168		281.3	278.4	263.4	261.0	253.9	251.0	250.9	aJ79
29S 35W 24BAA 01		3037		239		342.7	343.9	347.5	348.6		365.5	356.5	aJ84
29S 35W 28ACC 01	QU,TO	2975	500	147	185.4	264.6	265.1	266.6	268.7	268.5		277.7	aJ59
29S 36W 19BCB 01	QU,TO	2995	405	44	118.0		212.5	217.2	212.8	213.0	216.5	224.0	aJ59
29S 36W 33ADB 01		3011		91		248.0	246.1			240.8	251.5	245.4	aJ84
29S 37W 03CDB 01	QU,TO	3051	421	71	133.0	245.1		254.0	243.6	242.2		259.9	aJ67
29S 37W 08CBA 01	QU,TO	3065	430	46	114.5	245.2	244.5	248.9	247.5	243.8	250.8	258.4	aJ59
29S 37W 29BBA 01	QU,TO	3095	504	74	148.0	279.6	279.1	283.0	284.4	281.9	286.0	290.9	aJ53
29S 38W 35CCD 01	QU,TO	3124	469	74	115.1	183.1	185.7	187.0	190.4	190.4	194.6	200.7	aJ58
30S 35W 02DBC 01	QU,TO	3020	525	225	240.5	318.5	318.3		315.8	322.2		310.9	aJ58
30S 35W 19BCD 01	QU,TO	3004	474	134	153.3		205.1	206.8		206.6	207.4	204.3	aJ58
30S 36W 01BBB 01	QU,TO	2973	463	98	130.4	220.3	218.4	220.8	217.6	214.5	224.3	232.7	aJ63
30S 36W 04ABB 01	QU,TO,KJ	3033	493	113		141.4	151.4	152.3		163.6		152.7	aJ68
30S 36W 32BBC 01	QU,TO	3064	384	113	122.5	172.9	174.5	180.0	183.9	183.9	187.5	195.0	aJ60
30S 37W 02BAA 02	QU,TO	3102	507	122	221.7	310.2	306.4	308.9	311.5	309.0	311.8	314.7	aJ57
30S 37W 03DBA 01	QU,TO,KJ	3108	458	120		281.8	284.2	283.8		283.8		295.4	aJ59
30S 37W 20CBC 01	QU	3125	385	114	164.6	225.6	227.5	229.8	228.3	230.8			aJ41
30S 38W 13CCC 01	QU,TO,KJ	3142	467	102	146.7	223.3	227.6	231.5	228.1	231.6		229.3	aJ57
30S 38W 15DBC 01	QU	3144	360	89	118.7	194.1	196.1	200.2	201.9	202.4	206.5	212.1	aJ58
30S 38W 30ACA 01	QU,TO	3152	377	69	82.1	190.2	194.5		209.0	209.4		207.3	aJ59

GRANT COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, GRANT COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	1940-96
27S 35W 17ADD 01	QU,TO	278.7	-104	-93.0	-0.6	-1.9	-3.1	287	183	-36
27S 35W 25BDC 01		261.8			-4.9					
27S 36W 21DCC 01	QU,TO	305.2	-106		-3.0	-1.9				
27S 37W 04ABB 01	QU,TO	194.1	-124	-107.7	-2.1	-2.2	-3.6	246	122	-50
27S 37W 16AAD 01		230.5	-177		-0.9	-3.2		270	94	-65
27S 37W 21BDD 01		213.3	-155		-1.2	-2.8				
27S 38W 12ADC 01	QU,TO	207.1	-173	-141.6	-1.9	-3.1	-4.7	246	73	-70
27S 38W 15BBB 01	KJ	183.2		-50.3	-0.8		-1.7			
27S 38W 23CBB 01	QU,TO	163.7	-114	-65.5	-2.6	-2.0	-2.2	285	171	-40
28S 35W 03DBB 01		302.9			0.4					
28S 35W 05BCC 01	QU,TO	340.9	-104	-87.7	-2.5	-1.9	-2.9	220	116	-47
28S 35W 36ABC 01	QU,TO	336.0	-114	-99.6	-3.2	-2.0	-3.3	350	236	-33
28S 36W 18ABC 01		247.3	-152		-6.5	-2.7		250	98	-61
28S 37W 02BBB 04		258.3			-1.4					
28S 38W 33BDB 01		230.3			-2.5					
29S 35W 07CBD 01	QU,TO	250.9	-83		0.1	-1.5		273	190	-30
29S 35W 24BAA 01	TO	356.5	-118		9.0	-2.1		323	206	-36
29S 35W 28ACC 01	QU,TO	277.7	-131	-92.3		-2.3	-3.1	353	222	-37
29S 36W 19BCB 01	QU,TO	224.0	-180	-106.0	-7.5	-3.2	-3.5	361	181	-50
29S 36W 33ADB 01		245.4	-154		6.1	-2.8		375	221	-41
29S 37W 03CDB 01	QU,TO	259.9	-189	-126.9		-3.4	-4.2	350	161	-54
29S 37W 08CBA 01	QU,TO	258.4	-212	-143.9	-7.6	-3.8	-4.8	384	172	-55
29S 37W 29BBA 01	QU,TO	290.9	-217	-142.9	-4.9	-3.9	-4.8	430	213	-50
29S 38W 35CCD 01	QU,TO	200.7	-127	-85.6	-6.1	-2.3	-2.9	395	268	-32
30S 35W 02DBC 01	QU,TO	310.9	-86	-70.4		-1.5	-2.3	300	214	-29
30S 35W 19BCD 01	QU,TO	204.3	-70	-51.0	3.1	-1.3	-1.7	340	270	-21
30S 36W 01BBB 01	QU,TO	232.7	-135	-102.3	-8.4	-2.4	-3.4	365	230	-37
30S 36W 04ABB 01	QU,TO,KJ	152.7	-40			-0.7		380	340	-11
30S 36W 32BBC 01	QU,TO	195.0	-82	-72.5	-7.5	-1.5	-2.4	271	189	-30
30S 37W 02BAA 02	QU,TO	314.7	-193	-93.0	-2.9	-3.4	-3.1	385	192	-50
30S 37W 03DBA 01	QU,TO,KJ	295.4	-175			-3.1		338	163	-52
30S 37W 20CBC 01	QU									
30S 38W 13CCC 01	QU,TO,KJ	229.3	-127	-82.6		-2.3	-2.8	365	238	-35
30S 38W 15DBC 01	QU	212.1	-123	-93.4	-5.6	-2.2	-3.1	271	148	-45
30S 38W 30ACA 01	QU,TO	207.3	-138	-125.2		-2.5	-4.2	308	170	-45

GRAY COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, GRAY COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
24S 27W 08CCC 01	QU,TO	2697	138	66	59.1	75.9	77.9	78.5	77.9	76.7	79.6		aJ56
24S 27W 14ABB 01	QU,TO	2654	92	74	66.2	64.6	64.2	65.1	65.7	63.4	64.0	64.6	aJ56
24S 27W 29BCC 01		2703	152	72		87.0	87.9	89.1	88.8		89.8	91.2	aJ85
24S 28W 28BBA 01		2750	240	93		111.7	111.8	112.9	112.7	112.1	113.8	114.3	aJ85
24S 28W 31DD 01	QU,TO	2754	264	91	87.9	127.0	128.1	130.8	129.9	128.1	131.3	131.9	aJ64
24S 29W 16DCA 01	QU,TO	2787	222	98	96.2	116.4	124.9	119.0		116.6	118.7	119.2	aJ64
24S 29W 18CCB 01	QU,TO	2814	220	106	109.8	131.7	132.9	134.4	132.4	131.8	135.3	137.0	aJ64
24S 30W 33ADD 01	TO	2857	282	130		157.2	170.6		162.1	160.3	162.9	166.2	aJ85
25S 27W 33ABB 01	QU,TO	2728	249	134	131.8	145.7	148.0	140.9	141.9	142.5		143.2	aJ65
25S 29W 07BCB 01	QU,TO	2830	281	131	129.0	148.2	150.4	152.4	152.6	152.4	154.9	156.9	aJ64
25S 29W 14ABB 01	QU,TO	2776		107	107.1	136.6	137.8	139.8		138.8		143.2	aJ56
25S 30W 20BCB 01	QU,TO	2734	184	9	9.8	13.1	13.4	16.2	18.0	18.9	21.8	12.8	aJ56
26S 27W 27CDD 01	QU,TO	2612	222	33		57.7	61.4		68.4	67.7	70.1	71.8	aJ70
26S 28W 06DDB 01		2647	147	9			14.3	15.5	16.8	17.1	18.4	14.1	aJ85
26S 29W 35CCC 01	QU,TO	2742	242	72	71.6	112.6	113.6	119.5	121.3	122.6	125.4		aJ65
*26S 30W 01ABC 01		2740				69.1	71.3	75.5		73.4	79.6	79.6	aJ84
26S 30W 24DDD 01	QU,TO	2754	253	54		97.2	105.6	111.9	113.7	109.7	111.4	115.8	aJ72
27S 27W 01BAA 01		2631				90.6	92.4	95.7	97.8	98.5	100.0	101.8	aJ85
27S 27W 07ADC 01	QU,TO	2686	186	82	74.0	103.3	107.4	109.1		110.4	112.3	115.0	aJ67
27S 27W 10CDB 01	QU,TO	2712	235	131	123.4	150.6	151.9	153.8	154.5	157.8	157.4	158.4	aJ64
27S 27W 25CCD 01	QU,TO	2732	228	167	163.8	187.1	190.0	188.6	189.4	192.0			aJ37
27S 28W 05AAA 01	QU,TO	2707	228	66		101.6	109.2	109.1	110.6	111.7	117.3	115.9	aJ71
27S 28W 30CCA 01	QU,TO	2738	218	78		115.3	117.3	120.0	121.3	122.4	124.3		aJ70
27S 29W 27CAA 01		2760	235	83		115.3	118.3	122.0	124.4	126.1	128.9	131.2	aJ85
27S 30W 08BBB 01	QU,TO	2790	265	68	66.6		121.2	124.3	126.2		131.9	137.4	aJ64
27S 30W 34CCC 01	QU,TO	2807	404	102	101.0	157.3	158.9	163.5	164.6	166.0	168.5	172.4	aJ67
28S 27W 03BBB 01	QU,TO	2755	260	166		186.9	191.0	189.8	192.6	191.0	192.9	194.5	aJ72
28S 29W 16ACC 01	QU,TO	2799	299	121	125.0	165.5	166.9	168.5		169.8	170.7	171.2	aJ65
28S 30W 10DDD 01	QU,TO	2814	469	115	120.9		180.0	180.6	181.8	182.7	184.0	186.1	aJ64
28S 30W 17BBA 01	TO	2817	497	110	110.4	175.2	173.8	177.5	179.3	181.2	184.2	186.8	aJ59
28S 30W 24BAB 01	QU,TO	2804	429	114	119.5	174.7	176.9	179.2	178.6	179.3	180.6	182.5	aJ61
29S 27W 30BCC 01	QU,TO	2655	280	87	103.0	144.9	145.8	146.7	147.3	148.8	149.6	153.4	aJ59
29S 28W 28CDC 01	TO	2688	278	88	91.2	130.9	133.6	133.9	137.6	138.9	140.8	143.7	aJ59
29S 29W 10ABB 01		2745				128.4	129.2	135.9	131.3	136.8		136.5	aJ81
29S 29W 27BCB 01	QU,TO	2739	494	98	101.0	145.3	147.9	150.3	152.0	153.2	155.1	157.6	aJ65
29S 30W 22BBC 01	QU,TO	2816	446	144	144.6	203.9	206.1		211.6	213.7	216.5	218.4	aJ65
29S 30W 35ACD 01	QU,TO	2805	445	146	147.8	208.9	211.5		217.1	221.9	221.5	224.8	aJ65

GRAY COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, GRAY COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	1940-96
24S 27W 08CCC 01	QU,TO									
24S 27W 14ABB 01	QU,TO	64.6	9	1.6	-0.6	0.2	0.1	18	27	50
24S 27W 29BCC 01		91.2	-19		-1.4	-0.3		80	61	-24
24S 28W 28BBA 01		114.3	-21		-0.5	-0.4		147	126	-14
24S 28W 31DD 01	QU,TO	131.9	-41	-44.0	-0.6	-0.7	-1.5	173	132	-24
24S 29W 16DCA 01	QU,TO	119.2	-21	-23.0	-0.5	-0.4	-0.8	124	103	-17
24S 29W 18CCB 01	QU,TO	137.0	-31	-27.2	-1.7	-0.6	-0.9	114	83	-27
24S 30W 33ADD 01	TO	166.2	-36		-3.3	-0.6		152	116	-24
25S 27W 33ABB 01	QU,TO	143.2	-9	-11.4		-0.2	-0.4	115	106	-8
25S 29W 07BCB 01	QU,TO	156.9	-26	-27.9	-2.0	-0.5	-0.9	150	124	-17
25S 29W 14ABB 01	QU,TO	143.2	-36	-36.1		-0.6	-1.2			
25S 30W 20BCB 01	QU,TO	12.8	-4	-3.0	9.0	-0.1	-0.1	175	171	-2
26S 27W 27CDD 01	QU,TO	71.8	-39		-1.7	-0.7		189	150	-21
26S 28W 06DDB 01		14.1	-5		4.3	-0.1		138	133	-4
26S 29W 35CCC 01	QU,TO									
*26S 30W 01ABC 01		79.6			0.0					
26S 30W 24DDD 01	QU,TO	115.8	-62		-4.4	-1.1		199	137	-31
27S 27W 01BAA 01		101.8			-1.8					
27S 27W 07ADC 01	QU,TO	115.0	-33	-41.0	-2.7	-0.6	-1.4	104	71	-32
27S 27W 10CDB 01	QU,TO	158.4	-27	-35.0	-1.0	-0.5	-1.2	104	77	-26
27S 27W 25CCD 01	QU,TO									
27S 28W 05AAA 01	QU,TO	115.9	-50		1.4	-0.9		162	112	-31
27S 28W 30CCA 01	QU,TO									
27S 29W 27CAA 01		131.2	-48		-2.3	-0.9		152	104	-32
27S 30W 08BBB 01	QU,TO	137.4	-69	-70.8	-5.5	-1.2	-2.4	197	128	-35
27S 30W 34CCC 01	QU,TO	172.4	-70	-71.4	-3.9	-1.3	-2.4	302	232	-23
28S 27W 03BBB 01	QU,TO	194.5	-29		-1.6	-0.5		94	66	-30
28S 29W 16ACC 01	QU,TO	171.2	-50	-46.2	-0.5	-0.9	-1.5	178	128	-28
28S 30W 10DDD 01	QU,TO	186.1	-71	-65.2	-2.1	-1.3	-2.2	354	283	-20
28S 30W 17BBA 01	TO	186.8	-77	-76.4	-2.6	-1.4	-2.5	387	310	-20
28S 30W 24BAB 01	QU,TO	182.5	-69	-63.0	-1.9	-1.2	-2.1	315	247	-22
29S 27W 30BCC 01	QU,TO	153.4	-66	-50.4	-3.8	-1.2	-1.7	193	127	-34
29S 28W 28CDC 01	TO	143.7	-56	-52.5	-2.9	-1.0	-1.8	190	134	-29
29S 29W 10ABB 01		136.5								
29S 29W 27BCB 01	QU,TO	157.6	-60	-56.6	-2.5	-1.1	-1.9	396	336	-15
29S 30W 22BBC 01	QU,TO	218.4	-74	-73.8	-1.9	-1.3	-2.5	302	228	-25
29S 30W 35ACD 01	QU,TO	224.8	-79	-77.0	-3.3	-1.4	-2.6	299	220	-26

GREELEY COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, GREELEY COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
16S 39W 02BDC 01	TO	3520	220	81		143.3	142.6	154.4	149.5	149.3	150.7	156.7	aJ70
16S 39W 22DCB 01	TO	3529	163	95	88.8	135.4	136.9			139.9	141.0	142.7	qJ64
16S 40W 15ACC 01	TO	3650	192	114	119.9	169.0	159.9	156.3		157.0	162.8	162.4	aJ65
16S 40W 17CBC 01	TO	3688				163.6	164.7	164.8	165.2	165.6	167.7	166.0	qJ85
16S 40W 26ADA 01	TO	3602	157	93		120.3	120.9	121.1	120.9	121.3	122.0	122.3	aJ76
16S 42W 22BCB 01	TO	3828	237	183	198.5	201.2	201.7	207.3	201.5	207.0	204.8	202.8	aJ66
16S 42W 25AAA 01		3763				184.0	183.0	185.8	186.1	185.9	187.5	190.4	aJ89
17S 39W 02BAA 01	TO	3511	161	102		118.6	118.6	118.8	120.7	121.1	124.5	121.6	qJ72
17S 39W 22ABB 01	TO	3527	195	118	123.3	134.2	134.1	132.3	139.3	137.1	139.9	137.5	aJ65
17S 39W 34CCB 01	TO	3505	135	95		97.5	96.7	96.6		101.5	100.8	98.8	aJ77
17S 40W 15CCB 01	TO	3607	209	123	127.0	138.9	137.5	139.7		140.4	140.6	141.2	aJ62
17S 40W 17BBA 01	TO	3663	217	165		186.1	186.5	186.0	186.1	185.6	189.5	195.3	aJ72
17S 40W 31BBA 01	TO	3663	218	151	168.1	162.4	162.7	161.5		161.7	162.4	163.8	aJ65
18S 39W 07BBD 01	TO	3564	145	109		114.6	114.8	114.8		119.7	124.7	127.7	aJ69
18S 39W 19CDA 01	TO	3510	100	70		76.9	76.6	75.8		77.1	76.6	78.3	aJ72
18S 39W 24AAC 01	TO	3467	183	105		136.5	138.1	138.4	135.6	134.5	140.2	143.0	aJ63

GREELEY COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, GREELEY COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
16S 39W 02BDC 01	TO	156.7	-76		-6.0	-1.7		139	63	-55
16S 39W 22DCB 01	TO	142.7	-48	-53.9	-1.7	-1.0	-1.8	68	20	-71
16S 40W 15ACC 01	TO	162.4	-48	-42.5	0.4	-1.0	-1.4	78	30	-62
16S 40W 17CBC 01	TO	166.0			1.7					
16S 40W 26ADA 01	TO	122.3	-29		-0.3	-0.6		64	35	-45
16S 42W 22BCB 01	TO	202.8	-20	-4.3	2.0	-0.4	-0.1	54	34	-37
16S 42W 25AAA 01		190.4			-2.9					
17S 39W 02BAA 01	TO	121.6	-20		2.9	-0.4		59	39	-34
17S 39W 22ABB 01	TO	137.5	-20	-14.2	2.4	-0.4	-0.5	77	58	-25
17S 39W 34CCB 01	TO	98.8	-4		2.0	-0.1		40	36	-10
17S 40W 15CCB 01	TO	141.2	-18	-14.2	-0.6	-0.4	-0.5	86	68	-21
17S 40W 17BBA 01	TO	195.3	-30		-5.8	-0.7		52	22	-58
17S 40W 31BBA 01	TO	163.8	-13	4.3	-1.4	-0.3	0.1	67	54	-19
18S 39W 07BBD 01	TO	127.7	-19		-3.0	-0.4		36	17	-53
18S 39W 19CDA 01	TO	78.3	-8		-1.7	-0.2		30	22	-27
18S 39W 24AAC 01	TO	143.0	-38		-2.8	-0.8		78	40	-49

HAMILTON COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, HAMILTON COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
21S 39W 07CBA 01	TO	3497	215	196	194.0	181.9	181.0	183.4	187.6	190.2	187.5	190.9	aU62
22S 39W 03BBB 01	TO	3453	199		191.2		191.5	191.6		192.0	191.4		aU62
23S 39W 15ADD 01	QU,TO	3325	144		130.1	129.9	129.5	133.8	130.0	130.1	130.6	131.4	aU62
23S 40W 29DDB 01	KU	3397			240.3	309.0	307.4	309.9	305.6	308.9	304.8	310.0	aU62
23S 42W 19CBB 01	QA,QU	3339	67	20	24.1	24.3	24.8	26.0	25.2	25.5	24.1	27.3	aU62
23S 42W 26DCA 01	QA	3309	70	29	23.7	26.3	27.0	26.7	26.7	26.6	26.7	26.0	aU61
23S 42W 27DDB 01	QA	3311	70	23	20.0	23.3	22.7	23.2	23.1	22.6	22.6	22.3	aJ61
23S 42W 34CBB 01	QA	3307	58	13	9.6	10.9	11.0	11.2	10.6	10.7	10.7	10.9	aU61
23S 43W 21ABA 01	QA	3364	29	15	15.0	13.4	13.9	14.5	14.4	14.1	14.0	12.9	aU44
23S 43W 23BCB 01	QA	3356	68	21	20.5	21.4	21.7	21.8	21.6	21.3	21.2	22.1	aU47
23S 43W 25CBD 02	QA	3335	47	8	8.8	8.8	8.4	8.7	8.6	8.3	8.6	8.3	aU58
23S 43W 26BCC 01	QA	3343	22	7	7.1	7.8	8.0	8.2	8.0	8.3	8.0	7.8	aU60
24S 39W 19CBC 01	QA	3175	65	6	6.7	9.2	9.5	9.8	9.1	9.3	9.4	8.9	aU50
24S 39W 22CCB 01	QA	3152	42	8	11.8	11.1	11.5	11.8	11.4	11.9	12.9	11.5	aU48
24S 39W 35BAC 01	QA	3143	43	9	5.4	8.7	8.3	8.8	8.4		8.4	8.2	aU53
24S 39W 35CBA 01	QU	3146	97	11	11.4	15.6	15.3	15.8	15.6	15.5	15.3	15.3	aU58
24S 40W 07CBB 01	QA	3233	58	14	13.9	15.4	15.7	17.3	15.5	15.4	15.5	14.9	aU48
24S 40W 17BBB 01	QA	3221	71	13		15.5	15.4	16.0	15.1	15.1	15.1	15.8	aD70
24S 40W 23AAB 01	QA	3204	104	26	24.4	26.8	27.2	27.4	26.5	27.4	26.8	26.3	aU59
*24S 40W 31BBB 01	QU	3287			63.6	64.5	64.7	64.4	63.6	64.6	63.7	62.1	aU60
24S 41W 01DAD 01	QA,QU	3254	45		14.7	25.1	25.8	27.0	26.7	25.3	24.7	22.5	aU61
24S 42W 04AAD 01	QA	3304	44	7	6.5	11.7		15.8	16.4		19.2	20.8	aU62
24S 42W 28DDD 01	KJ	3455			160.0	166.9	167.2	166.9			169.2	171.4	aJ61
24S 43W 14CBB 01	KJ	3452		114	110.8	115.3	120.8	119.0	115.7	120.8	119.5	117.8	aJ39
25S 39W 02CAD 01	QU,TO	3156	46	24	27.9	34.4	32.6	32.9	33.1	33.4	32.1	32.0	aU60
25S 39W 23BDD 01	QU,TO	3286	133		78.7	90.3	89.6	89.4	89.0		88.9	88.8	aU62
25S 40W 01CA 01	QU	3218	58	46	45.8	50.7			50.9	50.9	50.5		au62
25S 40W 26BBB 01	KJ	3412		213	215.0	225.5	226.6	226.3	223.9	226.4	226.7	226.3	aU40
25S 43W 03ABB 01	KJ	3575			190.5	264.3	263.8	262.9	264.9	266.4	267.6	267.9	aJ62
25S 43W 25CCD 01	QU,TO	3490	225	101	121.4		153.3	154.4		154.1	156.4	160.3	aU61
26S 41W 20BCD 01	QU,TO	3317	242	17	20.7	39.4	40.5	42.2	43.9	45.0	46.4	47.7	aU62
26S 42W 10BB 02	QU,TO	3405	245	52	77.2	126.3	128.0	130.2	129.8	131.2	133.2	137.7	aJ61
26S 42W 17CBB 01	QU,TO,K J	3458			108.1	179.9	182.8	185.8	187.0	189.5	193.1	196.6	uU60
26S 42W 22DCC 01		3414					174.0	186.8	182.5	187.4			aF89
26S 43W 25DCC 01	QU,TO,K J	3508	258	128		227.5	229.3	232.1	233.1	236.0	236.6	238.9	aJ72

HAMILTON COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, HAMILTON COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness 1940-96
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	
21S 39W 07CBA 01	TO	190.9	5	3.1	-3.4	0.1	0.1	19	24	26
22S 39W 03BBB 01	TO									
23S 39W 15ADD 01	QU,TO	131.4		-1.3	-0.8		0.0		13	
23S 40W 29DDB 01	KU	310.0		-69.7	-5.2		-2.3			
23S 42W 19CBB 01	QA,QU	27.3	-7	-3.2	-3.2	-0.1	-0.1	47	40	-15
23S 42W 26DCA 01	QA	26.0	3	-2.3	0.7	0.1	-0.1	41	44	7
23S 42W 27DDB 01	QA	22.3	1	-2.3	0.3	0.0	-0.1	47	48	2
23S 42W 34CBB 01	QA	10.9	2	-1.3	-0.2	0.0	0.0	45	47	4
23S 43W 21ABA 01	QA	12.9	2	2.1	1.1	0.0	0.1	14	16	14
23S 43W 23BCB 01	QA	22.1	-1	-1.6	-0.9	0.0	-0.1	47	46	-2
23S 43W 25CBD 02	QA	8.3	0	0.5	0.3	0.0	0.0	39	39	0
23S 43W 26BCC 01	QA	7.8	-1	-0.7	0.2	0.0	0.0	15	14	-7
24S 39W 19CBC 01	QA	8.9	-3	-2.2	0.5	-0.1	-0.1	59	56	-5
24S 39W 22CCB 01	QA	11.5	-4	0.3	1.4	-0.1	0.0	34	31	-9
24S 39W 35BAC 01	QA	8.2	1	-2.8	0.2	0.0	-0.1	34	35	3
24S 39W 35CBA 01	QU	15.3	-4	-3.9	0.0	-0.1	-0.1	86	82	-5
24S 40W 07CBB 01	QA	14.9	-1	-1.0	0.6	0.0	0.0	44	43	-2
24S 40W 17BBB 01	QA	15.8	-3		-0.7	-0.1		58	55	-5
24S 40W 23AAB 01	QA	26.3	0	-1.9	0.5	0.0	-0.1	78	78	0
*24S 40W 31BBB 01	QU	62.1		1.5	1.6		0.1			
24S 41W 01DAD 01	QA,QU	22.5		-7.8	2.2		-0.3		23	
24S 42W 04AAD 01	QA	20.8	-14	-14.3	-1.6	-0.3	-0.5	37	23	-38
24S 42W 28DDD 01	KJ	171.4		-11.4	-2.2		-0.4			
24S 43W 14CBB 01	KJ	117.8	-4	-7.0	1.7	-0.1	-0.2			
25S 39W 02CAD 01	QU,TO	32.0	-8	-4.1	0.1	-0.1	-0.1	22	14	-36
25S 39W 23BDD 01	QU,TO	88.8		-10.1	0.1		-0.3		44	
25S 40W 01CA 01	QU									
25S 40W 26BBB 01	KJ	226.3	-13	-11.3	0.4	-0.2	-0.4			
25S 43W 03ABB 01	KJ	267.9		-77.4	-0.3		-2.6			
25S 43W 25CCD 01	QU,TO	160.3	-59	-38.9	-3.9	-1.1	-1.3	124	65	-48
26S 41W 20BCD 01	QU,TO	47.7	-31	-27.0	-1.3	-0.6	-0.9	225	194	-14
26S 42W 10BB 02	QU,TO	137.7	-86	-60.5	-4.5	-1.5	-2.0	193	107	-45
26S 42W 17CBB 01	QU,TO,KJ	196.6		-88.5	-3.5		-3.0			
26S 42W 22DCC 01										
26S 43W 25DCC 01	QU,TO,KJ	238.9	-111		-2.3	-2.0		130	19	-85

HARPER COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, HARPER COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1950	1966	1990	1991	1992	1993	1994	1995		1996
32S 06W 01DDD 01		1360				25.3	28.5	30.3	24.9			25.0	aU86

HARPER COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, HARPER COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
		1996	1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
32S 06W 01DDD 01		25.0								

HARVEY COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, HARVEY COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
22S 02W 05CBD 01	QU	1468				46.7	48.8	49.4	49.6	48.3	48.7		aJ84
22S 02W 29BBA 01		1424				21.0	24.1	24.1	21.3	18.9	22.1	20.9	aJ70
22S 03W 02DCD 01		1450				35.9	39.1	41.1	38.0	34.2	38.0	37.5	aJ70
22S 03W 29BAD 01		1430				13.9	19.4	22.0	13.3	7.0	16.2	13.5	aJ81
22S 03W 35AAA 01		1420				12.3	16.9	19.0	11.4	7.7	14.5	11.4	aJ70
23S 01W 19AAC 01	QU	1420				32.1	34.2	35.9	34.1	29.4			aJ70
23S 01W 28AAD 01		1403				21.7	22.0	22.5	20.5	19.2	21.8	18.9	aJ71
23S 02W 22CCD 01	QU	1395				15.6	18.4	18.4	15.5	14.4	17.6	15.1	aJ81
23S 02W 34DCC 01	QU	1399				16.3	16.3	16.9	13.8	16.7	16.7	16.5	qJ49
23S 03W 06DDD 01	QU	1495				71.9	73.9	78.2	69.3	66.8	74.9	72.4	aJ82
23S 03W 14AAC 01	QU	1450				35.3	39.6	42.3	37.2	33.9	39.3	36.8	aJ81
23S 03W 32DCC 02	QU	1445				10.1	11.2	12.5	11.3	8.0		9.3	qJ39
24S 01W 05AAB 01		1394				25.6	26.9	28.9	25.3	21.0	27.1	24.1	aJ81
24S 01W 19BCC 01	QU	1383				21.7	23.2	25.6	25.5	21.0	26.0	23.3	aJ84
24S 01W 22BCC 01	QU	1390				28.0	28.9	29.3	27.6	24.6	29.1	26.6	aJ81
24S 02W 28DDD 01	QU,QU	1403				37.8	82.2	40.1	40.9	34.3	36.4	33.7	qJ58
24S 03W 14BBB 01	QU	1430				15.7	15.8	16.2	16.6	16.6	16.6	16.5	qJ65

HARVEY COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, HARVEY COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	1944-96
22S 02W 05CBD 01										
22S 02W 29BBA 01		20.9			1.2					
22S 03W 02DCD 01	QU	37.5			0.5					
22S 03W 29BAD 01	QU	13.5			2.7					
22S 03W 35AAA 01	QU	11.4			3.1					
23S 01W 19AAC 01	QU									
23S 01W 28AAD 01		18.9			2.9					
23S 02W 22CCD 01	QU	15.1			2.5					
23S 02W 34DCC 01	QU	16.5			0.2					
23S 03W 06DDD 01	QU	72.4			2.5					
23S 03W 14AAC 01	QU	36.8			2.5					
23S 03W 32DCC 02	QU	9.3								
24S 01W 05AAB 01		24.1			3.0					
24S 01W 19BCC 01	QU	23.3			2.7					
24S 01W 22BCC 01	QU	26.6			2.5					
24S 02W 28DDD 01	QU,QU	33.7			2.7					
24S 03W 14BBB 01	QU	16.5			0.1					

HASKELL COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, HASKELL COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
27S 31W 24CDC 01	QU,TO	2816	366	94	97.8	158.3	162.2	166.1	168.2	169.9	174.0	177.4	aJ64
27S 31W 31BCC 01	QU,TO	2895	520	151	154.8	211.9	214.6	219.8	221.3	224.4	230.1	234.4	aJ48
27S 32W 03CBB 01		2872		92		156.3	154.3	159.0	160.8	163.2	169.1	174.4	aJ85
27S 32W 06CBB 01	QU,TO	2905	465	107		168.1	171.4	176.2	179.7	182.2	187.6	192.4	aJ73
27S 32W 19CCD 01	QU,TO	2906	456	118	130.0	200.2	204.1	211.3	216.9	218.4	223.5	235.0	aJ54
27S 34W 16DDD 01		3000				202.3	205.4	210.5	213.9			223.5	aJ82
27S 34W 28DAA 02		3042				250.7	251.5	258.3	261.0	262.1	271.0	279.3	aJ77
28S 31W 35CCB 01	QU,TO	2863	443	156	171.9	229.8	225.3	228.8	229.7	231.3	232.5	235.0	aJ64
28S 32W 24BCC 01	QU,TO	2910	549	175	181.5	233.2	232.6	234.7	234.9	239.3	246.8	238.1	aF64
28S 33W 20DDD 01		2967				320.9	323.3	322.6	323.5	321.1	314.4		aJ85
28S 34W 15DAB 01	QU,TO	3020	570	243	263.0	366.4	369.3	373.7	377.3		372.5		qJ66
29S 31W 09CB 01	QU,TO	2871	466	166	169.4	232.0	234.0	238.2	240.9	247.1	246.6	252.3	aJ64
29S 32W 04AAA 01		2914				264.9	266.1	271.0	273.9	275.3	280.8	286.7	aJ85
29S 32W 19CCC 01	QU,TO	2923	598	208	218.2	312.0	315.3	313.1	316.1	316.6	346.6	329.8	aJ59
29S 32W 26CBB 02	QU,TO	2895		191	204.1	269.7	273.5	277.0	279.9	280.3	283.6	287.6	qJ60
29S 33W 01AAB 01	QU,TO	2946	601	213	226.3	346.8	352.8	351.7	350.1	348.7			aJ58
29S 33W 28BCB 01	QU,TO	2963	558	212			321.0	323.5	326.0	326.1	331.8	334.8	aJ70
29S 33W 34DDD 01		2950					326.7	332.8	335.4	336.2	340.7	344.8	aJ85
30S 31W 24BBC 01		2831				217.5	217.3	215.9	216.8	207.7			aJ85
30S 31W 26ABB 01		2834				238.5	238.3	235.7	236.6	235.4	236.2	238.5	aJ85
30S 32W 31BAB 01	QU,TO	2906	466	194	202.0	271.9	274.1	276.8	279.5	280.4	284.3	284.4	aJ58
30S 34W 05BBB 01	QU,TO	3006	531	223	232.7	309.6	310.7	314.0	315.6		319.0	323.0	aJ57
30S 34W 30ADD 02		2843		63		116.4	118.8	122.2	123.7	123.8	127.4	131.4	aJ78

HASKELL COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, HASKELL COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	1940-96
27S 31W 24CDC 01	QU,TO	177.4	-83	-79.6	-3.4	-1.5	-2.7	272	189	-31
27S 31W 31BCC 01	QU,TO	234.4	-83	-79.6	-4.3	-1.5	-2.7	369	286	-22
27S 32W 03CBB 01	QU,TO	174.4	-82		-5.3	-1.5				
27S 32W 06CBB 01	QU,TO	192.4	-85		-4.8	-1.5				
27S 32W 19CCD 01	QU,TO	235.0	-117	-105.0	-11.5	-2.1	-3.5	358	273	-24
								338	221	-35
27S 34W 16DDD 01		223.5								
27S 34W 28DAA 02		279.3			-8.3					
28S 31W 35CCB 01	QU,TO	235.0	-79	-63.1	-2.5	-1.4	-2.1	287	208	-28
28S 32W 24BCC 01	QU,TO	238.1	-63	-56.6	8.7	-1.1	-1.9	374	311	-17
28S 33W 20DDD 01										
28S 34W 15DAB 01	QU,TO									
29S 31W 09CB 01	QU,TO	252.3	-86	-82.9	-5.7	-1.5	-2.8	300	214	-29
29S 32W 04AAA 01		286.7			-5.9					
29S 32W 19CCC 01	QU,TO	329.8	-122	-111.6	16.8	-2.2	-3.7	390	268	-31
29S 32W 26CBB 02	QU,TO	287.6	-97	-83.5	-4.0	-1.7	-2.8			
29S 33W 01AAB 01	QU,TO									
29S 33W 28BCB 01	QU,TO	334.8	-123		-3.0	-2.2		346	223	-36
29S 33W 34DDD 01		344.8			-4.1					
30S 31W 24BBC 01										
30S 31W 26ABB 01		238.5			-2.3					
30S 32W 31BAB 01	QU,TO	284.4	-90	-82.4	-0.1	-1.6	-2.7	272	182	-33
30S 34W 05BBB 01	QU,TO	323.0	-100	-90.3	-4.0	-1.8	-3.0	308	208	-32
30S 34W 30ADD 02		131.4	-68		-4.0	-1.2				

HODGEMAN COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, HODGEMAN COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
21S 22W 12BCB 01	QA	2157			35.5	55.3		56.7	63.3	52.4		52.8	qD60
22S 22W 13CCC 01	QA	2152			24.0	35.8	36.7	39.2	38.4	29.5		32.2	qD65
22S 24W 14BBC 01	KD	2460				274.3	271.6	285.0	246.7	254.0	258.9	255.0	aD71
22S 24W 15BDA 01	KD	2463				270.7	271.6	281.9	261.3	254.8	259.9	263.9	aJ71
*22S 24W 24DDD 01	KD	2360					164.9	177.8	163.2		158.1	162.3	aJ70
22S 24W 25DDC 01	KD	2332				142.9	147.1	156.6	138.0	127.7		144.2	qD70
22S 24W 26DDA 01	KD	2365				156.4	158.1	158.6	158.1			156.7	aJ70
22S 24W 35DAC 01	KD	2312				120.0	129.5	137.7	115.5	106.7	115.3	127.0	aD70
23S 22W 07DAA 01	KD	2239				80.3	82.6	90.2	90.6	80.2		12.8	qD72
23S 23W 04AAD 01	KD	2235				36.5	39.2	45.5	33.0	26.6	32.0	40.3	uD70
23S 23W 04DCA 01	KD	2236				37.2	40.3	46.2	34.2	24.9			aD70
23S 23W 12ABD 01	KD	2256				66.9	74.1	66.9	70.3	74.5			aD70
23S 24W 11DAA 01	KD	2335				142.9	148.7	156.5	129.2	118.9	142.6	141.6	qD70
23S 26W 07CCC 01		2612				322.5		325.0	318.1	314.1	314.9	317.2	qJ68
23S 26W 20CCC 01		2594				47.4	47.5	47.7		44.0		44.7	aJ85
23S 26W 26AAD 01		2590				69.5	69.1	69.0	68.4	67.2	67.2	66.6	aJ85
23S 26W 31CDD 01	TO	2621	122	71		70.8	70.0	71.1	70.5	70.8	69.0	68.6	aJ77
24S 21W 20CBB 01	KD	2348				77.1	77.4	77.5	76.5	75.9	75.9	75.5	aJ77
24S 23W 03CCC 01	TO	2422	90			61.1	61.0	63.2	62.0	58.7	62.3	61.8	aJ77
24S 23W 06AAB 01	KD	2457				210.2	209.5	214.7	209.5	205.7	207.6	214.7	qD73
24S 24W 02CCC 01	TO	2478	90			62.8	61.9	68.7	70.1	67.0	68.7	71.7	aJ77
24S 24W 20CCC 01	TO	2511	86			63.5	64.1	64.5	64.2	64.8	63.6	64.0	aJ77
24S 25W 22BAB 01		2545				83.7	86.1	87.3	85.9	82.4	85.2	85.6	aJ85
24S 26W 35CBC 01	TO	2609		63		59.3	59.0	59.5	59.4	58.4	61.5	58.5	qD54

HODGEMAN COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, HODGEMAN COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	1940-96
21S 22W 12BCB 01	QA	52.8		-17.3			-0.6			
22S 22W 13CCC 01	QA	32.2		-8.2			-0.3			
22S 24W 14BBC 01	KD	255.0			3.9					
22S 24W 15BDA 01	KD	263.9			-4.0					
*22S 24W 24DDD 01	KD	162.3			-4.2					
22S 24W 25DDC 01	KD	144.2								
22S 24W 26DDA 01	KD	156.7								
22S 24W 35DAC 01	KD	127.0								
23S 22W 07DAA 01	KD	12.8			-11.7					
23S 23W 04AAD 01	KD	40.3			-8.3					
23S 23W 04DCA 01	KD									
23S 23W 12ABD 01	KD									
23S 24W 11DAA 01	KD	141.6								
23S 26W 07CCC 01		317.2			1.0					
23S 26W 20CCC 01		44.7			-2.3					
23S 26W 26AAD 01		66.6			0.6					
23S 26W 31CDD 01	TO	68.6			0.4					
24S 21W 20CBB 01	KD	75.5	2		0.4	0.0		51	53	4
24S 23W 03CCC 01	TO	61.8			0.5					
24S 23W 06AAB 01	KD	214.7			-7.1				28	
24S 24W 02CCC 01	TO	71.7			-3.0					
24S 24W 20CCC 01	TO	64.0			-0.4				18	
24S 25W 22BAB 01		85.6			-0.4				22	
24S 26W 35CBC 01	TO	58.5	5		3.0	0.1				

JACKSON COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, JACKSON COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1944	1974	1990	1991	1992	1993	1994	1995		1996
06S 15E 27BAB 01		1135			76.2	89.2	88.9	89.8	90.4	90.6			aM72

JACKSON COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, JACKSON COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
										saturated thickness
			1996	1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996
06S 15E 27BAB 01										

KEARNY COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, KEARNY COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
22S 35W 23CDD 01	TO	3025	175	95	107.6	133.7	134.2	134.7	135.2	135.8	136.3	136.9	aJ61
22S 37W 34BBC 01		3230				136.3		137.2	138.9	136.7	136.7	136.4	aJ86
23S 35W 05ACC 01	TO	3096	180	118	122.7		151.6	151.8	150.7	151.6	151.2	151.9	aJ66
23S 35W 16BBC 01		3038	263	52		135.6	138.4	136.4	136.7	133.0	136.0	136.5	aJ85
23S 35W 25BBB 02	QU,TO	3005	385	46	59.1	105.8	105.7	109.4	108.7	109.2			aJ58
23S 36W 04CBB 01	TO	3183	198	142	132.9		142.5	146.7	145.9	143.8	146.8	144.7	aJ61
23S 36W 32BBB 01	TO	3234	305	189	218.0	245.5	247.8	242.3	243.5	240.2	240.6	242.8	aJ62
23S 36W 35BBB 01		3193	293	169		213.3	213.6	214.0	213.6	213.9	213.6	212.1	aJ85
23S 37W 04ABC 01	TO	3281	233	183		193.6	192.2	192.5	201.4	192.4	191.9	190.9	aJ78
23S 37W 28CCB 01	TO	3303	300	218	236.9	256.4	255.7	256.2	257.2	254.3	253.8	253.0	aJ61
24S 35W 09CCC 01	QU,TO	2998	358	30	31.0	35.9	39.2	43.5	38.2	38.9	40.3	36.8	aJ58
24S 35W 13CCC 02	QA	2941	346	12	8.2	15.5		17.9	16.8	17.0			qJ62
24S 35W 24BCB 01	QA	2941	341	11		26.4	27.9	27.8	28.1	27.5	29.7	28.8	aJ58
24S 36W 23CBB 02	QU,TO	3014	310	26	24.8	30.6	30.7	32.3	31.4	30.7	31.0	30.3	aJ58
25S 35W 02BAA 01	QU,TO	2990	400	52		106.4	107.7	111.2	112.3	113.4	115.3	118.1	qJ75
25S 35W 04BDD 01		2990	410	40		71.3	72.7	75.9	76.3	77.6		80.8	aJ85
25S 35W 17AAA 01	QU,TO	2995	405	37		105.2	108.9	113.6	113.3	115.1	115.8	119.8	qJ75
*25S 35W 26BAB 01	QU,TO	3005	450	70		151.6	156.0	163.5	164.8	166.7	169.2	175.8	aJ75
25S 36W 14B 01		3050				94.3	94.2	95.8	93.7	95.9	98.9	92.9	aJ85
25S 36W 28BBD 01	QU,TO	3050	362	51		112.7	117.0	119.4	117.4	116.1			aJ69
25S 36W 35CCA 01		3025				109.3	113.6	116.4	117.4	119.1	122.5	125.4	qJ77
25S 37W 15ABA 02	QA	3050	30	5		9.3	10.2	9.8	9.9	9.0	9.0	8.0	qJ67
25S 37W 25BAD 02	QU,TO,KJ	3056	156	41	38.1	74.2		77.5	80.9	83.3			aJ62
25S 38W 08CAA 01	QU,TO,KJ	3140	90	30	37.5	45.1	44.8	45.0	45.1	45.0	45.0	45.0	aJ66
25S 38W 20ACC 01	QU,TO,KJ	3175	75	65	63.2	69.2	95.2	81.0	77.9	77.2	82.0	69.5	aJ62
26S 35W 06ACC 01	QU	3008	418	58	60.7	109.8	110.3	113.4	116.1	118.5			aJ65
26S 35W 29BBD 01		3045		113		191.9	194.5	198.8	201.0	203.5	207.5	212.0	aJ81
26S 36W 22CCA 01		3090	440	125		189.8	190.3	194.0	196.5	199.5	202.9	205.8	aJ82
26S 37W 06ACB 01	QU,TO	3092	102		26.1	32.1	29.0	28.8	27.6	27.8	27.3	28.7	aJ62

KEARNY COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, KEARNY COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness 1940-96
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	
22S 35W 23CDD 01	TO	136.9	-42	-29.3	-0.6	-0.8	-1.0	80	38	-53
22S 37W 34BBC 01		136.4			0.3					
23S 35W 05ACC 01	TO	151.9	-34	-29.2	-0.7	-0.6	-1.0	62	28	-55
23S 35W 16BBC 01		136.5	-85		-0.5	-1.5		211	127	-40
23S 35W 25BBB 02	QU,TO									
23S 36W 04CBB 01	TO	144.7	-3	-11.8	2.1	-0.1	-0.4	56	53	-5
23S 36W 32BBB 01	TO	242.8	-54	-24.8	-2.2	-1.0	-0.8	116	62	-47
23S 36W 35BBB 01		212.1	-43		1.5	-0.8		124	81	-35
23S 37W 04ABC 01	TO	190.9	-8		1.0	-0.1		50	42	-16
23S 37W 28CCB 01	TO	253.0	-35	-16.1	0.8	-0.6	-0.5	82	47	-43
24S 35W 09CCC 01	QU,TO	36.8	-7	-5.8	3.5	-0.1	-0.2	328	321	-2
24S 35W 13CCC 02	QA									
24S 35W 24BCB 01	QA	28.8	-18		0.9	-0.3		330	312	-5
24S 36W 23CBB 02	QU,TO	30.3	-4	-5.5	0.7	-0.1	-0.2	284	280	-1
25S 35W 02BAA 01	QU,TO	118.1	-66		-2.8	-1.2		348	282	-19
25S 35W 04BDD 01		80.8	-41			-0.7		370	329	-11
25S 35W 17AAA 01	QU,TO	119.8	-83		-4.0	-1.5		368	285	-23
*25S 35W 26BAB 01	QU,TO	175.8	-106		-6.6	-1.9		380	274	-28
25S 36W 14B 01		92.9			6.0					
25S 36W 28BBD 01	QU,TO									
25S 36W 35CCA 01		125.4			-2.9					
25S 37W 15ABA 02	QA	8.0	-3		1.0	-0.1		25	22	-12
25S 37W 25BAD 02	QU,TO,KJ									
25S 38W 08CAA 01	QU,TO,KJ	45.0	-15	-7.5	0.0	-0.3	-0.3	60	45	-25
25S 38W 20ACC 01	QU,TO,KJ	69.5	-5	-6.3	12.5	-0.1	-0.2	10	6	-40
26S 35W 06ACC 01	QU									
26S 35W 29BBD 01		212.0	-99		-4.5	-1.8				
26S 36W 22CCA 01		205.8	-81		-2.9	-1.4		315	234	-26
26S 37W 06ACB 01	QU,TO	28.7		-2.6	-1.4		-0.1		73	

KINGMAN COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, KINGMAN COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
27S 05W 24CDC 01	QU	1477		14	12.6	12.9	17.1	18.6	16.2	14.2	17.1	14.1	aJ55
27S 05W 33ABB 02	QU	1460	60	25	4.0	8.5	9.3	7.2	3.9	8.6	10.5	7.2	aJ73
27S 06W 12CCD 01	QU	1488		7	6.6	14.2	12.4	12.3	7.4	10.0	11.4	8.6	aJ70
27S 06W 16CCB 01		1462	17	1	0.9		4.1	3.8	2.4	3.7	3.9	2.9	aJ73
27S 07W 03ADC 01	QU	1545	25	20	8.2	11.7	11.2	11.9	8.9	7.9	11.2	8.7	aJ56
27S 07W 23BCC 01	QU	1567	14		7.3	7.8	8.7	8.9	7.7	7.0	8.1	6.7	aJ73
27S 08W 14DDC 01	QU	1610		2	0.6	1.4	2.2	2.8	1.0	1.5	2.4	1.4	aJ66
27S 08W 17DAB 01	QU	1665	118	45	34.4	36.9	39.1	41.1	40.8	37.4	40.1	38.4	aJ73
27S 08W 25DAD 01		1622	67					23.0	20.9	18.0			aJ64
27S 08W 35CBC 01	QU	1610	54	32	20.4	22.1	23.1	24.0	22.7	21.0	23.1	21.9	aJ66
27S 09W 15ABA 01	QU	1702	153	50	49.8	46.5	48.2	49.7		49.3	48.0		aJ73
27S 09W 29AAA 01		1700		30		24.5	24.8	26.2	25.3	23.8	25.6	25.3	aJ80
27S 10W 03DDD 01	QU	1743	145	33	51.0	53.1	54.2	56.1	55.5	52.5	53.9	54.3	qJ66
27S 10W 17DDD 01	QU	1755	171	77	61.9	64.1	65.0	65.6	66.1	62.1	63.9	64.6	aJ74
27S 10W 24DAD 01	QU	1692	117	20	16.0	16.3	17.1		18.5	16.3	16.7		aJ73
28S 07W 29CDD 01	QU	1601	151	30	26.6	25.8	26.9	28.0	26.9	25.9	26.9	26.4	qJ55
28S 07W 35CCD 01	QU	1585		23	21.9	17.8	21.8	22.6	21.9	20.9	23.1	21.0	aJ67
28S 08W 21BBB 01	QU	1562	49	1	2.3	2.3	2.7	3.1	2.7	2.0	2.3	2.1	aJ74
28S 08W 26ABC 01	QU	1652		77	63.2	59.8	62.3	62.2	62.7	59.2	60.1	59.8	aJ71
28S 09W 01BCC 01		1580	55	15	7.5	7.3	8.3	8.5	7.3	7.5	8.4	7.7	aJ69
28S 09W 21AAA 01	QU	1666	118	34	28.1	28.4	28.9	30.2	30.3	27.8	29.4	28.9	aJ74
28S 09W 29CCC 01	QU	1708	107	30	32.7	33.1	33.8	35.1	34.7	32.4	34.1	33.3	aJ74
28S 09W 34AAB 01	QU	1690	75	41	42.8	43.1	43.8	45.4	45.2	44.2	43.8	43.5	aJ68
28S 10W 16BCB 01	QU	1756	154	51	50.2	50.5	51.8	52.9	52.6	53.2	50.8	51.1	aJ71
29S 10W 19DDB 01		1765				24.9	26.7	26.9	24.0	24.8	26.6	25.0	aJ85
30S 10W 05BBD 01		1770				45.5	45.6	46.9	46.4	43.3	46.3	44.1	aJ88
30S 10W 28DAC 01		1730				20.4	22.1	23.9	21.8	19.8	23.6	20.7	aJ88

KINGMAN COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, KINGMAN COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	1944-96
27S 05W 24CDC 01	QU	14.1	0	-1.5	3.0	0.0	-0.1			
27S 05W 33ABB 02	QU	7.2	18	-3.2	3.3	0.3	-0.1	35	53	51
27S 06W 12CCD 01	QU	8.6	-2	-2.0	2.8	0.0	-0.1			
27S 06W 16CCB 01		2.9	-2	-2.0	1.0	0.0	-0.1	16	14	-13
27S 07W 03ADC 01	QU	8.7	11	-0.5	2.5	0.2	0.0	5	16	220
27S 07W 23BCC 01	QU	6.7		0.6	1.4		0.0		7	
27S 08W 14DDC 01	QU	1.4	1	-0.8	1.0	0.0	0.0			
27S 08W 17DAB 01	QU	38.4	7	-4.0	1.7	0.1	-0.2	73	80	10
27S 08W 25DAD 01										
27S 08W 35CBC 01	QU	21.9	10	-1.5	1.2	0.2	-0.1	22	32	45
27S 09W 15ABA 01	QU									
27S 09W 29AAA 01		25.3	5		0.3	0.1				
27S 10W 03DDD 01	QU	54.3	-21	-3.3	-0.4	-0.4	-0.2	112	91	-19
27S 10W 17DDD 01	QU	64.6	12	-2.7	-0.7	0.2	-0.1	94	106	13
27S 10W 24DAD 01	QU									
28S 07W 29CDD 01	QU	26.4	4	0.2	0.5	0.1	0.0	121	125	3
28S 07W 35CCD 01	QU	21.0	2	0.9	2.1	0.0	0.0			
28S 08W 21BBB 01	QU	2.1	-1	0.2	0.2	0.0	0.0	48	47	-2
28S 08W 26ABC 01	QU	59.8	17	3.4	0.3	0.3	0.2			
28S 09W 01BCC 01		7.7	7	-0.2	0.7	0.1	0.0	40	47	18
28S 09W 21AAA 01	QU	28.9	5	-0.8	0.5	0.1	0.0	84	89	6
28S 09W 29CCC 01	QU	33.3	-3	-0.6	0.8	-0.1	0.0	77	74	-4
28S 09W 34AAB 01	QU	43.5	-3	-0.7	0.3	-0.1	0.0	34	32	-6
28S 10W 16BCB 01	QU	51.1	0	-0.9	-0.3	0.0	0.0	103	103	0
29S 10W 19DDB 01		25.0			1.6					
30S 10W 05BBD 01		44.1			2.2					
30S 10W 28DAC 01		20.7			2.9					

KIOWA COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, KIOWA COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
27S 16W 10BAC 01	QU	2088	248	28	12.1	29.2	30.6	32.3	31.1	29.2	30.6	30.4	aJ62
27S 16W 19BBD 01	QU	2112	182	37	20.3	33.4	35.3	37.1	37.6	34.4	36.5	36.0	aJ72
27S 16W 28CDD 01	QU	2120	168	65	56.7	65.8	67.2	68.4	68.8	68.5	69.6	68.9	aJ73
27S 17W 21ADC 01	QU	2140	175	39	24.4	35.6	37.1	38.3	39.6	37.7	39.1	38.8	qJ41
27S 18W 13AAA 01	QU	2152	219	24	15.6	24.8	26.5	28.3	29.2	27.1	29.1	28.9	qJ73
27S 18W 18DDC 01	QU	2192	187	26	15.7	20.6	21.0	21.7	22.3	22.8	23.3	23.6	qJ40
27S 18W 22ADC 01	QU	2175	210	29	14.1	24.6	25.7	27.3	28.1	28.4	29.2	28.3	aJ70
27S 19W 28CBD 01	QU	2262	187	60	67.9	74.4	75.9	78.2	78.5	78.8	79.3		aJ73
27S 20W 26ABD 01	QU	2274	174	38	40.6	42.7	44.0	45.5	45.4	45.4	46.7	46.7	qJ69
27S 20W 32ABD 01	QU	2308	108	36	45.2	46.4	45.9	49.4	49.0	49.0	49.6	49.4	aJ69
28S 16W 12BCA 01	QU	2111	211	92	101.0	101.5	102.6	103.2	104.8	103.1	103.8	104.2	aJ60
28S 16W 17AAC 01	QU	2165	245	120	118.0	118.0	118.5	119.4	119.7	119.8	120.3	120.6	aJ62
28S 16W 31DCA 01		2110	192	75		69.9	70.4	70.9	71.3	70.5	71.3	71.1	aJ85
28S 17W 01CAB 01	QU	2135	180	65	55.6	61.4	62.7	64.0	68.4	63.6	64.1	64.6	aJ68
28S 17W 15DDB 01	QU	2178	191	105	96.0	97.4	98.4	99.7	100.0	101.6	100.1	100.2	aJ62
28S 18W 19CCB 01	QU	2268		103	88.0	89.0	89.7	90.5	90.8	91.0	91.3	91.8	aJ66
28S 19W 10AAC 01	TO	2270				94.0	95.5	97.4	98.1	98.4	99.4	99.7	qJ77
28S 19W 30CBC 01	QU	2335	185	116	115.0	112.7	113.2	114.7	114.3	114.4	114.5	114.7	aJ73
28S 19W 33CBD 01	QU	2325	220	133	134.0	133.7	134.2	135.1	134.7	134.8	135.1	135.4	aJ66
28S 20W 12BBD 01	QU	2288	190	64	55.7	56.5	57.2	58.0		58.4	59.3	59.6	aJ54
28S 20W 30ACA 01	QU	2319	69	32	39.4	41.7	42.7	44.5	43.9	44.0	43.8	44.7	aJ60
29S 16W 02ADB 01						50.0	50.3	50.8	51.1	50.8	51.7	51.3	aJ88
29S 17W 04ABC 01	QU	2125	122	60	50.0	51.6	52.2	52.9	53.4	54.7	53.3	52.7	aJ57
29S 17W 12DAA 01						48.5	48.6	49.5	49.7	49.3	49.3	48.2	aJ88
29S 18W 02ACC 01	TO	2251	196			142.7	143.2	143.6	143.8	143.8	138.6	138.8	qJ77
29S 18W 07BBD 01	QU	2311	256	155	153.5	153.3	153.8	154.5	153.6	153.8	154.3	154.7	aJ68
29S 19W 22BAA 01	QU	2340	250	158	157.0	156.0	156.4	156.9	156.5	156.4	156.9	157.3	aJ67
29S 20W 11CDD 01	QU	2398		170	168.0	166.2	166.4	169.3	166.2	166.5	166.3	166.5	aJ70

KIOWA COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, KIOWA COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	
27S 16W 10BAC 01	QU	30.4	-2	-18.3	0.2	0.0	-0.8	220	218	-1
27S 16W 19BBD 01	QU	36.0	1	-15.7	0.5	0.0	-0.7	145	146	1
27S 16W 28CDD 01	QU	68.9	-4	-12.2	0.7	-0.1	-0.6	103	99	-4
27S 17W 21ADC 01	QU	38.8	0	-14.4	0.3	0.0	-0.7	136	136	0
27S 18W 13AAA 01	QU	28.9	-5	-13.3	0.2	-0.1	-0.6	195	190	-3
27S 18W 18DDC 01	QU	23.6	2	-7.9	-0.3	0.0	-0.4	161	163	1
27S 18W 22ADC 01	QU	28.3	1	-14.2	0.9	0.0	-0.6	181	182	1
27S 19W 28CBD 01	QU									
27S 20W 26ABD 01	QU	46.7	-9	-6.1	0.0	-0.2	-0.3	136	127	-7
27S 20W 32ABD 01	QU	49.4	-13	-4.2	0.2	-0.3	-0.2	72	59	-18
28S 16W 12BCA 01	QU	104.2	-12	-3.2	-0.4	-0.2	-0.1	119	107	-10
28S 16W 17AAC 01	QU	120.6	-1	-2.6	-0.3	0.0	-0.1	125	124	-1
28S 16W 31DCA 01		71.1	4		0.2	0.1		117	121	3
28S 17W 01CAB 01	QU	64.6	0	-9.0	-0.5	0.0	-0.4	115	115	0
28S 17W 15DDB 01	QU	100.2	5	-4.2	-0.1	0.1	-0.2	86	91	6
28S 18W 19CCB 01	QU	91.8	11	-3.8	-0.5	0.2	-0.2			
28S 19W 10AAC 01	TO	99.7			-0.3					
28S 19W 30CBC 01	QU	114.7	1	0.3	-0.2	0.0	0.0	69	70	1
28S 19W 33CBD 01	QU	135.4	-2	-1.4	-0.3	0.0	-0.1	87	85	-2
28S 20W 12BBD 01	QU	59.6	4	-3.9	-0.3	0.1	-0.2	126	130	3
28S 20W 30ACA 01	QU	44.7	-13	-5.3	-0.9	-0.3	-0.2	37	24	-35
29S 16W 02ADB 01		51.3			0.4					
29S 17W 04ABC 01	QU	52.7	7	-2.7	0.6	0.1	-0.1	62	69	11
29S 17W 12DAA 01		48.2			1.1					
29S 18W 02ACC 01	TO	138.8			-0.2				57	
29S 18W 07BBD 01	QU	154.7	0	-1.2	-0.4	0.0	-0.1	101	101	0
29S 19W 22BAA 01	QU	157.3	1	-0.3	-0.4	0.0	0.0	92	93	1
29S 20W 11CDD 01	QU	166.5	4	1.5	-0.2	0.1	0.1			

LABETTE COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, LABETTE COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
31S 21E 15CCC 02		836			7.3	12.1	14.8		6.9	11.1		14.7	qD67

LABETTE COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, LABETTE COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	1944-96
31S 21E 15CCC 02		14.7		-7.4			-0.3			

LANE COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, LANE COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
16S 29W 26CCD 01	TO	2803	140	90	89.2	108.6	109.0	109.5	109.2	108.5	108.1	109.0	aJ72
16S 29W 33BAB 01	TO	2813				110.1	110.9	111.2	110.7	110.2	110.3	110.7	aJ88
16S 30W 24DCC 01	TO	2840	155	109		124.9	122.9	124.5	123.4	124.0	124.9	125.3	aJ72
16S 30W 29CDD 01	TO	2884	174	121		129.5	129.3	129.9	129.3	128.7	128.7	128.9	aJ72
17S 27W 20CCC 01	TO	2717	127	84		100.6	100.0		100.7	99.1	100.1	102.5	aJ73
17S 27W 26CCC 01	TO	2678	127	80		96.4	95.9	95.4	95.4	92.4	94.6	94.4	aJ73
17S 28W 07BBB 01	TO	2785	170	83		101.5	102.0	101.4	101.0	100.2	100.5	102.2	aJ73
17S 28W 15BBC 01	TO	2760	150	84		107.1	106.7	107.5	107.1	106.6	107.0		aJ73
17S 28W 26ABB 01	TO	2735	140	85	88.2	103.4	103.5	104.0	103.0	102.2	103.3	103.7	aJ63
17S 28W 34CBB 01	TO	2747	132	78		93.0	94.7	96.2	95.0	94.2	92.3	96.2	aJ77
17S 29W 36BAA 01	TO	2784	119	70		88.6	89.0	89.2	89.1	89.0	89.6	90.3	aJ73
17S 30W 13CBB 01	TO	2846	151	84	83.9	93.1	93.5	94.9	93.6	92.9	93.9	94.7	aJ48
17S 30W 20BBB 01	TO	2889	165	87		127.2	121.5	123.4		105.9	107.9	116.9	aJ77
18S 27W 13CCC 01	TO	2674	95	88	86.1	85.7	85.8	85.9	86.1	85.9	85.5	85.2	aJ48
18S 28W 18ACC 01	TO	2764	95	51		68.3	65.3	66.0	64.6	61.7	61.6	61.3	aJ72
18S 30W 02AAA 01	TO	2849	124	68		90.2	89.0	91.0	88.3	85.3	85.9	86.3	aJ71
18S 30W 04BAB 01	TO	2872	125	69		77.1	77.3	77.4	76.9	76.4	76.8	77.6	aJ77
18S 30W 23AAA 01	TO	2848	150	55		62.0	61.3	63.5	61.3	60.3	59.4	58.8	aJ77

LANE COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, LANE COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
16S 29W 26CCD 01	TO	109.0	-19	-19.8	-0.9	-0.4	-0.7	50	31	-38
16S 29W 33BAB 01	TO	110.7			-0.4					
16S 30W 24DCC 01	TO	125.3	-16		-0.4	-0.3		46	30	-35
16S 30W 29CDD 01	TO	128.9	-8		-0.2	-0.2		53	45	-15
17S 27W 20CCC 01	TO	102.5	-19		-2.4	-0.4		43	25	-42
17S 27W 26CCC 01	TO	94.4	-14		0.2	-0.3		47	33	-30
17S 28W 07BBB 01	TO	102.2	-19		-1.7	-0.4		87	68	-22
17S 28W 15BBC 01	TO									
17S 28W 26ABB 01	TO	103.7	-19	-15.5	-0.4	-0.4	-0.5	55	36	-35
17S 28W 34CBB 01	TO	96.2	-18		-3.9	-0.4		54	36	-33
17S 29W 36BAA 01	TO	90.3	-20		-0.7	-0.4		49	29	-41
17S 30W 13CBB 01	TO	94.7	-11	-10.8	-0.8	-0.2	-0.4	67	56	-16
17S 30W 20BBB 01	TO	116.9	-30		-9.0	-0.7		78	48	-38
18S 27W 13CCC 01	TO	85.2	3	0.9	0.3	0.1	0.0	7	10	43
18S 28W 18ACC 01	TO	61.3	-10		0.3	-0.2		44	34	-23
18S 30W 02AAA 01	TO	86.3	-18		-0.4	-0.4		56	38	-32
18S 30W 04BAB 01	TO	77.6	-9		-0.8	-0.2		56	47	-16
18S 30W 23AAA 01	TO	58.8	-4		0.6	-0.1		95	91	-4

LOGAN COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, LOGAN COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type	
				1950	1966	1990	1991	1992	1993	1994	1995	1996		
*11S 32W 19AAB 01	TO	3073	183	92		104.3	105.1	105.5	105.1	104.6	104.4	104.5	aJ75	
11S 32W 31CCD 01		3054				71.8	73.3	73.6	68.9	67.1	68.3			aJ84
11S 32W 36ABA 01	TO	3009				93.4	91.9	92.4	91.9	91.8	96.4			aJ70
*11S 33W 10BDD 01		3113			117.7		118.4	117.9	116.8	116.7	118.1	aJ84		
*11S 33W 14DCC 01	TO	3117				137.4	133.7	137.5	132.0	132.8	134.2	aJ69		
*11S 34W 13AAB 01	TO	3184			144.3	144.1	142.0	144.7	144.1	143.6	144.7	aJ84		
*11S 34W 16CDB 01	TO	3218	170	122	118.4	120.1	120.2	120.9	121.0	120.8	120.4	123.8	aJ59	
*11S 36W 06ADD 02	TO	3380	220	142	137.0	173.0	177.9	178.9	175.0	171.9	171.7	172.4	aJ65	
*11S 37W 01DCD 01		3369				170.7	169.3	167.9	167.7		168.3	170.5	aJ79	
*13S 36W 20CCB 01	QA	3023	30			11.1	10.6	10.8	11.3	10.0	10.9	10.8	aJ70	

LOGAN COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, LOGAN COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
*11S 32W 19AAB 01	TO	104.5	-13		-0.1	-0.3		91	79	-13
11S 32W 31CCD 01										
11S 32W 36ABA 01	TO									
*11S 33W 10BDD 01		118.1			-1.4					
*11S 33W 14DCC 01	TO	134.2			-1.4					
*11S 34W 13AAB 01	TO	144.7			-1.1					
*11S 34W 16CDB 01	TO	123.8			-3.4					
*11S 36W 06ADD 02	TO	172.4	-2	-5.4	-0.7	0.0	-0.2	48	46	-4
*11S 37W 01DCD 01		170.5	-30	-35.4	-0.7	-0.7	-1.2	78	48	-38
*13S 36W 20CCB 01	QA	10.8			0.1					
								19		

MCPHERSON COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, MCPHERSON COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
18S 03W 30CCC 01	QU	1515				112.2	114.1	115.0	113.9	112.9	114.3	113.5	aJ70
18S 04W 21CCC 01	QU	1412				12.5	13.7	14.4	12.5	9.5	11.8	11.5	aJ70
19S 01W 32DAC 01	QU	1590				45.6	46.5	47.8	46.4	45.3	46.1	45.2	aJ70
19S 03W 16BCB 01	QU	1511				99.3	101.6	101.5	100.8	99.8	100.7	100.4	aJ70
19S 04W 15AAC 01		1494				86.1	87.0	89.1	87.6	86.6	87.8	88.8	aJ70
20S 01W 22BBB 01	QU	1527				9.7	11.4	12.7	9.4	7.4	11.2	8.2	aJ70
20S 03W 22DAA 01	QU	1473				39.4	40.2	43.2	42.1	40.6	42.0	41.3	aJ70
20S 03W 30BBA 01	QU	1476				55.2	56.5	58.1	58.0	56.9	57.9	57.1	aJ70
20S 04W 15BDD 01	QU	1474				54.4		57.3		55.6	56.6	56.5	aJ70
20S 04W 27DAC 01	QU	1467				44.1	46.2	48.0	46.1	43.9	46.5	45.4	aJ70
21S 02W 12BBB 01	QU	1503				13.2	14.1	15.3	13.4	11.8	12.7	10.2	aJ81
21S 02W 28CBA 01	QU	1467				36.7	38.1	41.0	40.5	36.8	39.4	38.5	aJ70
21S 02W 36ACA 01	QU	1475				12.6	14.0	14.5	10.6	9.4	12.4	9.7	aJ80
21S 03W 06CBD 01	QU	1464				45.5	45.9	49.1	48.5	46.0	47.8	47.9	aJ70
21S 03W 22BBB 01	QU	1450				34.4	34.9	35.4	34.6	31.0	34.0	33.1	aJ70
21S 03W 33BBC 01	QU	1461				46.4	49.2	52.2	49.9	43.3	47.7	47.0	aJ70
21S 04W 26CDC 01	QU	1445				34.4	38.8	42.5	36.5	29.6	36.3	35.1	aJ70

MCPHERSON COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, MCPHERSON COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness 1944-96
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	
18S 03W 30CCC 01	QU	113.5			0.8					
18S 04W 21CCC 01	QU	11.5			0.3					
19S 01W 32DAC 01	QU	45.2			0.9					
19S 03W 16BCB 01	QU	100.4			0.3					
19S 04W 15AAC 01		88.8			-1.0					
20S 01W 22BBB 01	QU	8.2			3.0					
20S 03W 22DAA 01	QU	41.3			0.7					
20S 03W 30BBA 01	QU	57.1			0.8					
20S 04W 15BDD 01	QU	56.5			0.1					
20S 04W 27DAC 01	QU	45.4			1.1					
21S 02W 12BBB 01	QU	10.2			2.5					
21S 02W 28CBA 01	QU	38.5			0.9					
21S 02W 36ACA 01	QU	9.7			2.7					
21S 03W 06CBD 01	QU	47.9			-0.1					
21S 03W 22BBB 01	QU	33.1			0.9					
21S 03W 33BBC 01	QU	47.0			0.7					
21S 04W 26CDC 01	QU	35.1			1.2					

MEADE COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, MEADE COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
30S 26W 04CBB 01	QU,TO	2525	415	11	20.7	58.5	62.3	74.3	64.0	65.0	69.5	75.3	aJ39
30S 26W 13ABB 01		2575				67.3	67.4	68.4	69.6	69.5	69.9	70.2	aJ86
30S 26W 32DDD 01		2488	388	16		20.0	20.6	22.5	18.1	21.5	23.1	23.7	aJ85
30S 27W 20ABA 01	QU,TO	2564				69.3	74.2	75.1	72.8	73.8	75.9	80.6	aJ85
30S 27W 23ABB 01		2531	321	12	16.5	54.6	54.4	63.0	54.3	54.5	57.8	65.3	aJ39
30S 27W 27BBB 01		2518				32.7	36.3	37.8	32.2	33.3	35.5	43.0	aJ85
30S 27W 32DDD 01	QU,TO	2475	315	26	11.8	7.5	8.6	9.6	7.3	6.9	7.5	7.4	qJ53
30S 28W 17ABB 01		2697	517	102	109.6	160.9	156.0	157.4	158.8	160.9	167.5	166.1	aJ65
30S 28W 33AAA 01		2646	466	85		126.7	128.4	131.4	132.4	134.2	136.0	138.2	aJ85
30S 29W 23CAD 01	QU,TO	2744	544	134	141.3	186.6	188.5	192.8	194.1	195.9	197.8	202.6	aJ65
30S 29W 28BBB 01	QU,TO	2758	553	137	137.8	189.8	191.0	194.5		197.1	198.9	200.8	aJ59
30S 30W 06CCC 01		2825	449	152		210.9	213.0	217.1	219.3	221.4	223.7	226.6	aJ65
30S 30W 28ABB 01		2803	508	150	145.9	205.7	214.3	208.1	209.9	210.2	211.9	214.3	aJ59
31S 26W 30BBB 01	QU,TO	2516		98		104.8	105.2	106.3	106.8	107.2	107.9		aJ75
31S 27W 20AAA 02	QU,TO	2466	326	15		35.3	39.8	43.4		38.0	39.1	44.7	aJ75
31S 28W 02CCC 01	QU,TO	2623				130.6	140.9	133.9	134.5	135.8	137.5	140.3	aJ84
31S 28W 10BCB 01		2643	463	114	112.2		169.0	171.3	172.5	174.1			aJ65
31S 28W 26ABB 01		2496				41.7	45.1	49.9	46.1	49.7	49.7	49.9	aJ86
31S 29W 02DBB 01	QU,TO	2720	420	130		174.2	175.8		181.2	182.3	184.2	185.9	aJ85
31S 29W 25AAA 02		2698	438	145	156.5	188.5	195.3	191.9	192.8	193.4	194.5	195.0	aJ65
31S 29W 30AAA 01		2741	461	136	130.2	172.9	174.1	181.8	178.8	179.3	181.0	185.0	aJ65
31S 30W 16BBC 01	QU,TO	2770	505	136	133.9	199.5	206.3	206.1	206.7	209.7	212.8	216.7	aJ65
32S 28W 04ADD 01	QU,TO	2546	366	63	66.1	73.9	75.1	75.9	77.1	77.7	78.4	77.9	aJ39
32S 29W 05CC 01	QU,TO	2719	464	139	137.3	159.9	160.9	155.7	164.9	162.9			aJ59
32S 29W 27AAB 02	QU,TO	2688	555	143		152.5	144.8	154.5	150.2	156.0	156.9	157.7	aJ75
32S 30W 09CCC 01	QU,TO	2764	504	155	156.7		199.5	207.2	208.8	210.6	213.0	215.4	aJ65
33S 28W 29BCB 01	TO	2371	160	14	14.3	15.1	14.9	15.2	15.0	15.7	16.2	16.4	aJ39
33S 29W 36AAB 01	QU,TO	2463	283	81	81.3		88.6	88.5	87.0	88.8	88.8	89.2	aJ65
34S 28W 05BDA 01	TO,TO	2350				25.7	24.5	25.6	24.0		26.9	26.8	aJ86
34S 30W 22CBC 01		2675	675	191		200.6	189.9	202.0	202.4	202.9	203.5	204.7	aJ75
35S 30W 10CDA 01	QA,QU,TO	2393	318	23	23.1	24.9	24.4	26.5	23.2	24.6	24.9	25.4	aJ65

MEADE COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, MEADE COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness 1940-96
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	
30S 26W 04CBB 01	QU,TO	75.3	-64	-54.6	-5.8	-1.1	-1.8	404	340	-16
30S 26W 13ABB 01		70.2			-0.3					
30S 26W 32DDD 01		23.7	-8		-0.6	-0.1		372	364	-2
30S 27W 20ABA 01		80.6			-4.7					
30S 27W 23ABB 01	QU,TO	65.3	-53	-48.8	-7.5	-0.9	-1.6	309	256	-17
30S 27W 27BBB 01		43.0			-7.5					
30S 27W 32DDD 01		7.4	19	4.4	0.1	0.3	0.1	289	308	7
30S 28W 17ABB 01		166.1	-64	-56.5	1.4	-1.1	-1.9	415	351	-15
30S 28W 33AAA 01	QU,TO	138.2	-53		-2.2	-0.9		381	328	-14
30S 29W 23CAD 01		202.6	-69	-61.3	-4.8	-1.2	-2.0	410	341	-17
30S 29W 28BBB 01		200.8	-64	-63.0	-1.9	-1.1	-2.1	416	352	-15
30S 30W 06CCC 01		226.6	-75		-2.9	-1.3		297	222	-25
30S 30W 28ABB 01	QU,TO	214.3	-64	-68.4	-2.4	-1.1	-2.3	358	294	-18
31S 26W 30BBB 01										
31S 27W 20AAA 02		44.7	-30		-5.6	-0.5		311	281	-10
31S 28W 02CCC 01		140.3			-2.8					
31S 28W 10BCB 01	QU,TO									
31S 28W 26ABB 01		49.9			-0.2					
31S 29W 02DBB 01		185.9	-56		-1.7	-1.0		290	234	-19
31S 29W 25AAA 02		195.0	-50	-38.5	-0.5	-0.9	-1.3	293	243	-17
31S 29W 30AAA 01	QU,TO	185.0	-49	-54.8	-4.0	-0.9	-1.8	325	276	-15
31S 30W 16BBC 01		216.7	-81	-82.8	-3.9	-1.4	-2.8	369	288	-22
32S 28W 04ADD 01		77.9	-15	-11.8	0.5	-0.3	-0.4	303	288	-5
32S 29W 05CC 01										
32S 29W 27AAB 02	QU,TO	157.7	-15		-0.8	-0.3		412	397	-4
32S 30W 09CCC 01		215.4	-60	-58.7	-2.4	-1.1	-2.0	349	289	-17
33S 28W 29BCB 01		16.4	-2	-2.1	-0.2	0.0	-0.1	146	144	-1
33S 29W 36AAB 01		89.2	-8	-7.9	-0.4	-0.1	-0.3	202	194	-4
34S 28W 05BDA 01	TO,TO	26.8			0.1					
34S 30W 22CBC 01		204.7	-14		-1.2	-0.3		484	470	-3
35S 30W 10CDA 01		25.4	-2	-2.3	-0.5	0.0	-0.1	295	293	-1

MORTON COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, MORTON COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
31S 39W 18CCC 01	QU,TO	3246	226	116	135.6	212.9	215.2	212.1	218.9	219.5	220.7	231.2	aJ62
31S 40W 29ABB 01	QU,TO	3331	233	141	166.1	185.8	186.2	186.7	187.7	186.6	187.2	188.7	aJ59
31S 41W 07CDD 01	KJ	3441				135.5	135.1	135.3	135.1	134.0	134.3	134.4	aJ67
31S 41W 31CBB 01	KJ	3441			73.0	93.7	91.3	95.5	90.5	91.4			aJ67
31S 42W 29AAB 01	QU,TO,KJ	3510		74	93.1	97.5	99.9	101.0	102.3	103.4	104.6	104.9	aJ62
31S 43W 03CB 01	QU,TO,KJ	3609		61	65.7	66.4	65.7	63.9	65.6	68.1	67.0	67.5	aJ60
31S 43W 14DDC 01	KU	3576			67.7	71.4	71.6	72.1	72.3	72.6	72.6	73.3	aJ39
32S 40W 07BDC 01		3302		52		111.6	111.5	112.3	112.7	113.6	113.4	113.9	aJ84
32S 40W 21ADB 01	QU,TO	3342	237	132	156.0	197.8	195.2	196.3		200.5	192.9	196.1	aJ67
32S 41W 15CDC 01	QU,TO,KJ	3360			18.0	20.6	21.7	23.5	23.9	24.3	24.4	25.4	aJ67
32S 41W 35DCC 01		3420				182.0	181.9	188.4		182.8	174.5	181.8	aJ84
32S 42W 14CCC 01	QU,TO,KJ	3500			90.6	125.4	126.7	127.0	127.8	129.6		130.9	aJ62
32S 42W 21BCC 01	QU,TO,KJ	3526	186	64	113.6	158.5	158.6	157.7	158.0	159.6	160.1	157.9	aJ59
32S 42W 26CDD 01	QU,TO,KJ	3485	175	75	102.0	125.0	125.9	126.8	124.3	124.0		169.6	aJ67
32S 43W 08CBD 01		3615		45		104.1	101.6	102.5	101.5	110.2	114.5	115.3	aJ84
32S 43W 28BBC 01		3526				65.5	67.9	67.0	67.1	68.4		71.5	aJ84
33S 39W 04DBB 01	TO	3237	357	87		102.4	103.4	104.5	104.8	105.3	110.3	116.8	aJ84
33S 39W 16ABB 01	QU,TO	3234	344	82	70.0	79.5	83.3	80.6	84.8	81.3	82.7	85.7	aJ62
33S 40W 27CCC 01	QU,TO	3308	323	98	80.0	82.1	82.3	82.0	82.5	82.6	81.9	82.7	aJ67
33S 42W 05DCC 01		3235				71.5	71.3	71.3	71.1	72.3	73.6	72.9	aJ84
33S 42W 21BCB 01	QU,TO	3527	167	87	85.0	88.7	89.6	89.4	90.1		90.2	91.2	aJ67
33S 43W 08BDA 01	QU,TO,KJ	3643	183	86	95.0		112.3	107.2	107.7	109.8	110.6		aJ67
34S 39W 06CCA 01		3310	355	140		122.5	118.7	119.7	120.3	120.1	120.8	122.6	aJ84
34S 40W 16ABB 01		3363	388	163		144.1	148.5	143.3	147.3	144.9	143.4	144.4	aJ84
34S 41W 26DCD 01		3360	290	120		162.8	163.8	164.5	162.8	162.8	163.7	164.6	aJ84
34S 41W 28CBA 01		3299				123.1	124.2	125.0	127.2			131.4	aJ84
34S 42W 05BDC 01	QU,KJ	3449	69	31	38.4		39.8	39.8	39.8	40.0	39.9	40.2	aJ59
34S 42W 22CDB 01	QU,TO	3492	112	92		79.6	79.0	80.1	80.3	80.5	80.6	80.9	aJ67
34S 43W 07BDD 01	KJ	3655		125	147.2	149.2	149.9	151.0		150.6	150.5		aJ63
35S 39W 06CDD 01		3330	510	175		221.1	216.1	218.5	220.2	217.3	214.6	229.6	aJ84
35S 40W 03BBB 02		3369				180.4	180.7	181.3	181.6	181.0	182.6	183.6	qJ87
35S 41W 16CCD 01		3385		80		219.1	218.1	220.9	223.9	224.3	222.7	224.7	aJ84
35S 42W 02DBB 01		3554				171.3	174.1	173.4	177.1	174.7	175.3	176.2	aJ84
35S 43W 04AAC 01		3554	179	76		86.6	88.3	90.2	90.5	91.3	93.0	94.4	aJ84
35S 43W 13BDB 01	QU,TO	3615	305	151		191.1	190.6		190.2	193.9	194.8	197.6	aJ71

MORTON COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, MORTON COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness 1940-96
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	
31S 39W 18CCC 01	QU,TO	231.2	-115	-95.6	-10.5	-2.1	-3.2	110	-5	-105
31S 40W 29ABB 01	QU,TO	188.7	-48	-22.6	-1.5	-0.9	-0.8	92	44	-52
31S 41W 07CDD 01	KJ	134.4			-0.1					
31S 41W 31CBB 01	KJ									
31S 42W 29AAB 01	QU,TO,KJ	104.9	-31	-11.8	-0.3	-0.6	-0.4			
31S 43W 03CB 01	QU,TO,KJ	67.5	-7	-1.8	-0.5	-0.1	-0.1			
31S 43W 14DDC 01	KU	73.3		-5.6	-0.7		-0.2			
32S 40W 07BDC 01		113.9	-62		-0.5	-1.1				
32S 40W 21ADB 01	QU,TO	196.1	-64	-40.1	-3.2	-1.1	-1.3	105	41	-61
32S 41W 15CDC 01	QU,TO,KJ	25.4		-7.4	-1.0		-0.2			
32S 41W 35DCC 01		181.8			-7.3					
32S 42W 14CCC 01	QU,TO,KJ	130.9		-40.3			-1.3			
32S 42W 21BCC 01	QU,TO,KJ	157.9	-94	-44.3	2.2	-1.7	-1.5	122	28	-77
32S 42W 26CDD 01	QU,TO,KJ	169.6	-95	-67.6		-1.7	-2.3	100	5	-95
32S 43W 08CBD 01		115.3	-70		-0.8	-1.3				
32S 43W 28BBC 01		71.5								
33S 39W 04DBB 01	TO	116.8	-30		-6.5	-0.5		270	240	-11
33S 39W 16ABB 01	QU,TO	85.7	-4	-15.7	-3.0	-0.1	-0.5	262	258	-2
33S 40W 27CCC 01	QU,TO	82.7	15	-2.7	-0.8	0.3	-0.1	225	240	7
33S 42W 05DCC 01		72.9			0.7					
33S 42W 21BCB 01	QU,TO	91.2	-4	-6.2	-1.0	-0.1	-0.2	80	76	-5
33S 43W 08BDA 01	QU,TO,KJ									
34S 39W 06CCA 01		122.6	17		-1.8	0.3		215	232	8
34S 40W 16ABB 01		144.4	19		-1.0	0.3		225	244	8
34S 41W 26DCD 01		164.6	-45		-0.9	-0.8		170	125	-26
34S 41W 28CBA 01		131.4								
34S 42W 05BDC 01	QU,KJ	40.2	-9	-1.8	-0.3	-0.2	-0.1	38	29	-24
34S 42W 22CDB 01	QU,TO	80.9	11		-0.3	0.2		20	31	55
34S 43W 07BDD 01	KJ									
35S 39W 06CDD 01		229.6	-55		-15.0	-1.0		335	280	-16
35S 40W 03BBB 02		183.6			-1.0					
35S 41W 16CCD 01		224.7	-145		-2.0	-2.6				
35S 42W 02DBB 01		176.2			-0.9					
35S 43W 04AAC 01		94.4	-18		-1.4	-0.3		103	85	-17
35S 43W 13BDB 01	QU,TO	197.6	-47		-2.8	-0.8		154	107	-31

NESS COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, NESS COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1950	1966	1990	1991	1992	1993	1994	1995		1996
*16S 24W 15ABB 01	TO	2500				29.8	29.7	29.8	29.5	28.2	28.3	28.0	aJ75
18S 21W 25AAB 01	QA	2085				29.3	28.8	30.0	27.8	24.2	26.0	26.4	aJ74
18S 21W 31CAA 01	QU	2122				30.5	30.0	31.5	28.5	28.6	27.7	27.4	qJ71
18S 24W 36ADB 01	QA	2235				32.4	32.7	32.5	32.2	31.3	32.1	32.0	aJ74
18S 25W 33BBC 01	QA	2402				27.6	28.2	28.9	26.0	19.6	18.5	16.6	aJ74
18S 26W 06BAB 02	QA,TO	2570				7.8	7.7	7.7	7.4	6.9	7.1	7.1	aJ74
19S 23W 01CCB 01		2214				88.6	90.0	89.4	88.8	87.3	87.7	87.6	aJ71
19S 23W 08CBB 01		2220				21.4	21.7	22.0	20.6	16.1	17.8	18.1	qJ65
20S 22W 20CCC 01		2189				47.3	47.0	47.8	46.3	40.6	40.5	40.3	qJ40
20S 22W 35BCC 01	QA	2168				46.2	45.9	48.4	45.3	37.8	37.6	37.9	aJ74
20S 23W 32CDA 01		2233				36.7	36.5	37.1	37.3	33.3	35.5	36.3	qJ40
20S 26W 07BDC 01	QA	2538				23.2	23.5	24.7	22.0	19.3	20.9	20.4	aJ74

NESS COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, NESS COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
		1996								
*16S 24W 15ABB 01	TO	28.0			0.3					
18S 21W 25AAB 01	QA	26.4			-0.4					
18S 21W 31CAA 01	QU	27.4			0.3					
18S 24W 36ADB 01	QA	32.0			0.1					
18S 25W 33BBC 01	QA	16.6			1.9					
18S 26W 06BAB 02	QA,TO	7.1			0.0					
19S 23W 01CCB 01		87.6			0.1					
19S 23W 08CBB 01		18.1			-0.3					
20S 22W 20CCC 01		40.3			0.2					
20S 22W 35BCC 01	QA	37.9			-0.3					
20S 23W 32CDA 01		36.3			-0.8					
20S 26W 07BDC 01	QA	20.4			0.5					

NORTON COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, NORTON COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1950	1966	1990	1991	1992	1993	1994	1995		1996
*01S 21W 17AAA 01		2290				83.4	83.0	82.6	82.5	81.1	80.1	78.9	aD76
*01S 23W 15AAA 01		2340				32.4	32.6	32.8	32.9	30.4	30.6	29.9	aD76
*01S 24W 13BCB 01		2425				115.2	115.0	115.0	115.0	114.8	114.2	113.8	aD76
*01S 25W 25BBB 01		2405				43.2	43.4	43.4	43.1	41.3	40.7	40.3	aD85
*02S 21W 33CCC 01						93.6	93.6	93.8	93.5	92.3	91.8	90.4	aD76
*02S 23W 22AAA 01		2378				74.7	75.2	75.3	74.7	72.9	72.9	72.4	aD76
*02S 25W 14AAA 01						141.5	141.1	140.9	141.1	140.4	140.3	139.8	aD76
*04S 23W 03DDD 01						89.3	89.1	89.0	88.2	88.0	87.4	86.5	aD76
*04S 23W 26CCC 01						45.8	45.9	46.2	45.7	44.6	44.3	43.5	aD76
*04S 25W 13CCC 01						118.5	118.3	118.2	117.9	116.6	115.5	113.6	aD76

NORTON COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, NORTON COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
*01S 21W 17AAA 01		78.9			1.2					
*01S 23W 15AAA 01		29.9			0.7					
*01S 24W 13BCB 01		113.8			0.4					
*01S 25W 25BBB 01		40.3			0.4					
*02S 21W 33CCC 01		90.4			1.4					
*02S 23W 22AAA 01		72.4			0.5					
*02S 25W 14AAA 01		139.8			0.5					
*04S 23W 03DDD 01		86.5			0.9					
*04S 23W 26CCC 01		43.5			0.8					
*04S 25W 13CCC 01		113.6			1.9					

OSBORNE COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, OSBORNE COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
*06S 12W 23CDC 01		1506											
*07S 12W 28ABA 01		1531			23.0	22.6	23.4	24.6		18.5	13.2	13.5	qD45
*07S 15W 10CCC 01		1648					33.5			26.9	28.7	28.8	qD46
					17.2	17.5	17.1			12.2	16.0	15.8	qD64

OSBORNE COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, OSBORNE COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
*06S 12W 23CDC 01		13.5		9.5	-0.3					
*07S 12W 28ABA 01		28.8			-0.1		0.3			
*07S 15W 10CCC 01		15.8		1.4	0.2		0.0			

PAWNEE COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, PAWNEE COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
21S 15W 11CBB 01	QA	1932		3	4.9	9.8	10.4	11.6	10.6	9.3	10.9	10.7	aJ73
21S 15W 31BAD 01	QU	1972		8	10.3	19.4	16.3	22.6	21.3	17.2	19.4	19.5	aJ73
21S 16W 14ADC 01		1970		5		15.6	14.8	18.7	18.2	12.3	12.5	16.0	aJ85
21S 18W 32DAA 01	QA	2056		19	16.5	31.6	31.0	35.1	32.8	26.1	28.8	28.8	qJ63
21S 19W 27CCC 01		2077		23		46.5	47.3	49.9	48.3	44.5	44.8	44.6	aJ44
21S 19W 30BCC 01		2087		29	33.3	49.9	50.3	53.2	50.3	45.8	46.0	45.8	qJ65
21S 20W 29BBB 01		2104		24	34.8	48.7	48.6	51.6	48.1	41.9	43.5	43.5	qJ65
*22S 15W 03AAA 01	QU	1970	207	18	15.5	30.6	29.1	32.7	33.4	31.1	31.5	32.2	aJ73
22S 15W 03AAA 02	QU	1970	207		18.7	32.5	33.6	35.1	35.5	31.7	33.2	34.0	qJ73
22S 15W 13DCA 01	QU	1976	171	29	17.5	40.3	41.5	42.9	43.2	39.7	41.5	42.2	aJ69
22S 15W 33DDD 01		2003	128	28		36.6	38.1	39.5	39.9	37.3	39.1	39.6	aJ85
*22S 16W 03CBC 02	QA	1996		8	9.4	15.9	16.8	18.3	16.6	14.0	15.7	15.5	aJ73
*22S 16W 06BBA 01	QA	2010		8	14.6	17.8	18.4	20.0	17.8	15.4	18.0	17.7	qJ61
22S 16W 23AAA 01	QU	2011	106	24	21.8	38.3	39.7	40.1	40.9	39.3	39.6	39.9	qJ70
*22S 16W 32CDD 01		2047				34.2	35.3	37.6	37.5	34.8	36.7	37.9	aJ85
22S 17W 05BBC 02		2036		15		26.4	27.6	28.6		21.4	23.3	24.0	aJ81
22S 17W 18AAD 01	QU	2047		27		38.6	38.5	40.8	39.8	29.6	36.4	36.2	qJ64
*22S 17W 24CBC 01	QA	2034		12	5.6	11.4	12.0	15.5	14.4	11.0	14.8	11.4	aJ71
*22S 17W 27BAB 01						8.2	7.7	9.5	8.2	6.4	8.4	7.9	aJ88
22S 19W 07AAA 01		2102				65.4	64.2	66.8	63.8	56.7	58.3	63.7	qJ77
22S 19W 10BBA 01		2087				58.0	59.2	66.3	57.7	52.3	57.5	57.4	qJ78
23S 15W 12DDB 01		1974	145			32.4	32.8	34.2	33.3	28.7	31.5	30.0	aJ86
23S 16W 11CDC 01	QU	2038				26.6	27.1	27.7	28.3	27.4	28.3	28.6	aJ88
*23S 16W 35CCD 02		2060				31.3	32.8	34.2	33.3	29.8	33.3	32.0	qJ81
*23S 18W 28DAD 01	QU	2102	51	5	6.3	9.0	9.6	9.4	8.5	8.1	8.7	8.7	qJ73
*23S 18W 36DAC 01	QU	2116	96	21	8.2	25.8	27.3	28.5	28.7	27.7	29.0	28.7	aJ61

PAWNEE COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, PAWNEE COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	1944-96
21S 15W 11CBB 01	QA	10.7	-8	-5.8	0.2	-0.2	-0.3			
21S 15W 31BAD 01	QU	19.5	-12	-9.2	-0.1	-0.2	-0.4			
21S 16W 14ADC 01		16.0	-11		-3.5	-0.2				
21S 18W 32DAA 01	QA	28.8	-10	-12.3	0.0	-0.2	-0.6			
21S 19W 27CCC 01		44.6	-22		0.2	-0.4				
21S 19W 30BCC 01		45.8	-17	-12.5	0.2	-0.3	-0.6			
21S 20W 29BBB 01		43.5	-20	-8.7	0.0	-0.4	-0.4			
*22S 15W 03AAA 01	QU	32.2	-14	-16.7	-0.7	-0.3	-0.8	189	175	-7
22S 15W 03AAA 02	QU	34.0		-15.3	-0.8		-0.7		173	
22S 15W 13DCA 01	QU	42.2	-13	-24.7	-0.7	-0.3	-1.1	142	129	-9
22S 15W 33DDD 01		39.6	-12		-0.5	-0.2		100	88	-12
*22S 16W 03CBC 02	QA	15.5	-8	-6.1	0.2	-0.2	-0.3			
*22S 16W 06BBA 01	QA	17.7	-10	-3.1	0.3	-0.2	-0.1			
22S 16W 23AAA 01	QU	39.9	-16	-18.1	-0.3	-0.3	-0.8	82	66	-20
*22S 16W 32CDD 01		37.9			-1.2					
22S 17W 05BBC 02		24.0	-9		-0.7	-0.2				
22S 17W 18AAD 01	QU	36.2	-9		0.2	-0.2				
*22S 17W 24CBC 01	QA	11.4	1	-5.8	3.4	0.0	-0.3			
*22S 17W 27BAB 01		7.9			0.5					
22S 19W 07AAA 01		63.7			-5.4					
22S 19W 10BBA 01		57.4			0.1					
23S 15W 12DDB 01		30.0			1.5				115	
23S 16W 11CDC 01	QU	28.6			-0.3					
*23S 16W 35CCD 02		32.0			1.3					
*23S 18W 28DAD 01	QU	8.7	-4	-2.4	0.0	-0.1	-0.1	46	42	-9
*23S 18W 36DAC 01	QU	28.7	-8	-20.5	0.3	-0.2	-0.9	75	67	-11

PRATT COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, PRATT COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
26S 11W 01DDB 01	QU	1801	171	23	23.5	22.7	23.3	24.9	24.1	21.6	24.4	24.3	aJ73
26S 11W 27AAC 01	QU	1808	143	23	23.1	23.2	24.0	24.4	24.2	20.8	24.7	25.2	aJ64
26S 11W 29BCB 01	QU	1830	183	19	16.0	13.6	14.5	15.7	16.2	12.6	16.8	15.6	aJ64
26S 12W 17CCA 01	QU	1906	196	37	34.1	31.1	32.7	34.0	34.6	36.2	35.1	34.8	aJ64
26S 12W 34CDC 01	QU	1884	207	46	43.2	32.8	34.5	44.3	45.0	42.0	45.2	44.3	aJ64
26S 12W 34CDC 02	QU	1884	207	46	41.0	40.6	42.3	43.5	44.2	40.8	44.4	43.5	aJ64
26S 13W 16DAA 01	QU	1929	174	20	15.6	20.7	23.1	24.6	24.1	21.3	25.7	26.8	aJ67
26S 13W 19BBD 01	QU	1953	193	18	14.4	22.9	25.2	26.3	24.8	23.5	27.1	27.1	aJ63
26S 13W 34BCB 01	QU	1950	230	44	46.7	48.7	49.5	50.5	50.9	49.0	51.2	52.1	qJ59
26S 15W 01AAB 01		2020				23.3	25.2	26.8	22.9	20.3	24.9	24.0	aJ86
26S 15W 17BBC 01		2050				22.1	23.4	24.4	21.9	22.4	21.7	21.7	aJ88
27S 11W 12CBC 01	QU	1783	99	51	46.3	47.3	49.0	49.7	49.6	45.5	47.5	48.0	aJ74
27S 11W 31DAA 01	QA	1726	126	8	2.7	5.7	5.9	6.1	4.9	5.1	6.1	5.0	aJ64
27S 12W 12DAA 01		1838				55.0	56.9	58.5	57.6	54.8	56.8	56.7	qJ80
27S 12W 33CBA 01	QU	1777	152	3	1.2	3.3	3.6	3.5	3.3	3.2	3.9	3.7	aJ64
27S 13W 13DDC 01	QU	1897	145	72	57.0	57.2	58.1	58.7	59.1	58.3	58.7	58.5	aJ64
27S 14W 03DAC 01	QU	1995	220	35		43.6	45.6	46.3	46.4	44.7	47.8	48.0	aJ79
27S 14W 12DDD 01	QU	1983	252	53	57.7	60.5	61.4	62.4	62.1	61.9	63.2	63.8	qJ74
27S 14W 21CAB 01	QU	1998	203	39	34.2	43.4	45.4	46.3	46.6	45.5	47.0	47.1	aJ64
27S 15W 02ABC 01	QU	2036		26		32.8	35.3	35.8	34.0	33.3	34.2	36.1	aJ82
27S 15W 05CDB 01		2070				30.5	31.8	32.7	32.1	28.5	31.6	32.4	aJ87
27S 15W 32CCA 01	QU	2068	193	48	45.9		57.1	55.0	55.3	59.4	54.9	56.9	aU73
27S 15W 36ADD 01	QU	2050	245	75	73.7	75.9	77.7	78.6	77.5	78.0	79.1	81.5	aJ73
28S 11W 12ACC 01	QU	1755	155	36	32.1	36.0	37.2	38.4	39.9	33.6	35.9	36.3	aJ73
28S 11W 20CAC 01		1840	215	70		69.9	71.0	72.9	72.2	69.5	71.4	70.7	qJ79
28S 12W 21BAD 01	QU	1882	207	83	81.8	81.6	82.6	83.2	83.1	81.6	82.2	81.8	aJ64
28S 12W 34CCC 01		1902				100.5	101.8	102.8	103.0	102.0			aJ88
28S 13W 02DDC 01	QU	1827	179	9	8.1	13.1	13.4	15.1	13.9	14.9	14.0	13.1	aJ73
28S 13W 17AAA 01	QU	1938	189	72	72.0	70.3	70.8	70.8	71.0	70.3	71.2	70.8	aJ64
28S 13W 26DCB 01	QU	1916	191	89	91.0	89.6	90.5	91.0	90.8	92.5	90.6	90.3	aJ64
28S 14W 14CCC 01	QU	1984	194	80	76.9	77.4	78.5	78.8	78.9	78.0	79.2	79.2	aJ64
28S 15W 23CCD 01	QU	2071	271	109	108.0	106.7	107.3	107.9	108.4	108.1	115.7	115.4	aJ73
29S 11W 06AAA 01		1828	173	50		43.7	45.9	48.1	47.7	44.5	47.2	46.3	aJ84
29S 11W 09ADD 01	QU	1830	170	55	48.9	54.0	56.4	58.8	58.3	58.6	57.8	56.0	aJ64
29S 11W 29AAD 01	QU	1849	199	63	57.4	60.8	64.8	64.5	65.3	63.5	64.8	63.5	aJ73
29S 12W 20CCD 01	QU	1907	232	95	98.4	97.1	98.6	98.8	99.2	98.8	98.9	98.5	qJ66
29S 13W 12ABB 01		1906	196	76		69.7	70.5	71.4	71.3	70.8	70.9	71.3	aJ84
29S 13W 31CAA 01	QU	1893	154	31	30.6	29.9	31.1	31.5	31.7	32.3	31.1	30.0	aJ64
29S 14W 12ABB 01		1988	233	108		98.6	99.1	99.3	99.8	99.1		99.6	aJ84
29S 14W 17DBD 01		2012	222	102		96.6	97.7	98.1	97.9	102.6	98.3	98.4	aJ79
29S 15W 02CCA 01	QU	2035	215	78	85.2	96.5	102.3	106.5	100.2	102.8	98.6	105.4	aJ73
29S 15W 18ADA 01	QU	2050	175	78	86.0		91.6	90.4	94.3	93.1	94.3	103.8	aJ73
29S 15W 25AAB 02			117			33.5	34.4	34.7	34.6	34.3	34.8	34.3	aJ86

PRATT COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, PRATT COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	
26S 11W 01DDB 01	QU	24.3	-1	-0.8	0.1	0.0	0.0	148	147	-1
26S 11W 27AAC 01	QU	25.2	-2	-2.1	-0.5	0.0	-0.1	120	118	-2
26S 11W 29BCB 01	QU	15.6	3	0.4	1.2	0.1	0.0	164	167	2
26S 12W 17CCA 01	QU	34.8	2	-0.7	0.3	0.0	0.0	159	161	1
26S 12W 34CDC 01	QU	44.3	2	-1.1	0.9	0.0	-0.1	161	163	1
26S 12W 34CDC 02	QU	43.5	3	-2.5	0.9	0.1	-0.1	161	164	2
26S 13W 16DAA 01	QU	26.8	-7	-11.2	-1.1	-0.1	-0.5	154	147	-5
26S 13W 19BBD 01	QU	27.1	-9	-12.7	0.0	-0.2	-0.6	175	166	-5
26S 13W 34BCB 01	QU	52.1	-8	-5.4	-0.9	-0.2	-0.2	186	178	-4
26S 15W 01AAB 01		24.0			0.9					
26S 15W 17BBC 01		21.7			0.0					
27S 11W 12CBC 01	QU	48.0	3	-1.7	-0.5	0.1	-0.1	48	51	6
27S 11W 31DAA 01	QA	5.0	3	-2.3	1.1	0.1	-0.1	118	121	3
27S 12W 12DAA 01		56.7			0.1					
27S 12W 33CBA 01	QU	3.7	-1	-2.5	0.2	0.0	-0.1	149	148	-1
27S 13W 13DDC 01	QU	58.5	14	-1.5	0.2	0.3	-0.1	73	87	19
27S 14W 03DAC 01	QU	48.0	-13		-0.2	-0.3		185	172	-7
27S 14W 12DDD 01	QU	63.8	-11	-6.1	-0.6	-0.2	-0.3	199	188	-6
27S 14W 21CAB 01	QU	47.1	-8	-12.9	-0.1	-0.2	-0.6	164	156	-5
27S 15W 02ABC 01	QU	36.1	-10		-1.9	-0.2				
27S 15W 05CDB 01		32.4			-0.8					
27S 15W 32CCA 01	QU	56.9	-9	-11.0	-2.0	-0.2	-0.5	145	136	-6
27S 15W 36ADD 01	QU	81.5	-7	-7.8	-2.4	-0.1	-0.4	170	164	-4
28S 11W 12ACC 01	QU	36.3	0	-4.2	-0.4	0.0	-0.2	119	119	0
28S 11W 20CAC 01		70.7	-1		0.7	0.0		145	144	-1
28S 12W 21BAD 01	QU	81.8	1	0.0	0.4	0.0	0.0	124	125	1
28S 12W 34CCC 01										
28S 13W 02DDC 01	QU	13.1	-4	-5.0	0.9	-0.1	-0.2	170	166	-2
28S 13W 17AAA 01	QU	70.8	1	1.2	0.4	0.0	0.1	117	118	1
28S 13W 26DCB 01	QU	90.3	-1	0.7	0.3	0.0	0.0	102	101	-1
28S 14W 14CCC 01	QU	79.2	1	-2.3	0.0	0.0	-0.1	114	115	1
28S 15W 23CCD 01	QU	115.4	-6	-7.4	0.3	-0.1	-0.3	162	156	-4
29S 11W 06AAA 01		46.3	4		0.9	0.1		123	127	3
29S 11W 09ADD 01	QU	56.0	-1	-7.1	1.8	0.0	-0.3	115	114	-1
29S 11W 29AAD 01	QU	63.5	-1	-6.1	1.3	0.0	-0.3	136	136	0
29S 12W 20CCD 01	QU	98.5	-4	-0.1	0.4	-0.1	0.0	137	134	-2
29S 13W 12ABB 01		71.3	5		-0.4	0.1		120	125	4
29S 13W 31CAA 01	QU	30.0	1	0.6	1.1	0.0	0.0	123	124	1
29S 14W 12ABB 01		99.6	8			0.2		125	133	6
29S 14W 17DBD 01		98.4	4		-0.1	0.1		120	124	3
29S 15W 02CCA 01	QU	105.4	-27	-20.2	-6.8	-0.5	-0.9	137	110	-20
29S 15W 18ADA 01	QU	103.8	-26	-17.8	-9.5	-0.5	-0.8	97	71	-27
29S 15W 25AAB 02		34.3			0.5				83	

RAWLINS COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, RAWLINS COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
01S 33W 29CCC 01	TO	2992	144	115	115.6	112.2	112.3	112.6	112.1	114.7	114.2	115.4	aJ60
02S 31W 03CAD 01	QA	2665	42	15	14.7	17.1	18.7	19.3	17.1	14.9	15.2	16.2	aJ65
02S 32W 20DCD 01	QA	2735	32	5	8.3	11.8	13.0	14.2	13.4	8.7	9.9	10.0	aJ65
02S 33W 26DCC 01	QA	2798	46	13	19.8	23.1	24.2	25.3	22.2	18.6	19.5	20.1	aJ65
02S 35W 13ABB 01	TO	3178	208	174	170.3	168.2	168.2		167.9	167.9	151.7	150.5	aJ52
02S 35W 34CAA 01	QA,TO	3064	112	29	29.6	31.3		31.7	30.5	31.7	31.7	32.5	aJ52
02S 36W 13DDD 01	TO	3286	260	186	190.1	197.4	187.6	189.3	185.9	187.0	186.4	186.3	aJ64
02S 36W 36BAA 01	TO	3263	280	160	169.8	173.9	173.7	168.9	173.4	173.1	172.7	174.6	aJ65
03S 31W 07CBD 01	TO	2960	200	142	146.3	145.2	144.8		144.7	144.5	143.5	146.4	aJ59
03S 33W 03DCC 01	QA	2823	62	22	20.6	25.8	26.8	27.0	25.3	23.4	23.6	24.3	aJ59
03S 33W 08CDC 01	QA	2855	52	20	16.1	23.0	21.7	21.3	18.3	15.5	17.3	17.9	aJ64
03S 34W 03ABB 01	QA	2882	40	12	13.8	14.4		14.3	12.2	10.7	12.8	13.0	aJ64
03S 34W 26BAC 01	QA	2900	40	7	8.4	10.0	11.7	9.7	9.5	7.9	9.7	10.0	aJ64
03S 35W 24CBB 01	QA	3001	50	21	24.7	27.3	27.1	26.3	26.0	25.4	25.9	26.2	aJ65
03S 36W 14CBB 01	TO	3332	309	188	191.2	200.3	220.0	220.1		199.5	199.8	204.7	aJ65
03S 36W 17CCC 01	TO	3375	300	196	195.3	211.7	212.5	211.8	210.5	199.1	212.1	214.3	aJ62
03S 36W 21DBC 01	TO	3345				202.5	203.3	220.2	198.6	209.9	199.3	216.8	aJ87
04S 31W 16ABD 01	QA	2761	50	7	7.9	11.7	11.8	12.5	11.7	7.4	9.6	8.6	aJ65
04S 33W 10ABC 01		3086				143.1	143.2	143.1	142.0	141.7	141.7	145.5	aJ85
04S 33W 18DDA 01	TO	3068	153	88	87.6	85.4	85.3	85.3	85.3	83.9	83.5		aJ52
04S 33W 28DCA 01	TO	3125	237	152	151.2	150.6	149.5	152.2	152.8	148.6	148.1		aJ64
04S 34W 33CBC 01	TO	3160	210	115	117.2	119.9	119.9	119.1	117.3	116.9	116.8	116.6	aJ64
04S 35W 06DCD 01	TO	3252	260	157	157.8	164.2	160.0	160.1	161.9	159.4	161.0		aJ52
04S 35W 29DDD 01	TO	3219	224	150	150.1	150.5	149.7	149.6	149.6	149.5	149.5		aJ52
04S 36W 23CBB 01	TO	3351				216.7	216.0	214.4	212.6	214.0	212.6	215.2	aJ67
04S 36W 23DCA 01		3339				212.3	214.2	212.2	211.8	212.5	211.7	213.0	aJ85
05S 31W 10DDA 01	TO	2820	70	30	40.1	44.7	43.7		43.7	38.5	39.9	41.1	aJ64
05S 31W 20CCA 01	TO	2865	68	22	29.7	35.9	33.4	33.5	33.0	29.7	38.3	38.4	aJ65
05S 32W 14CDD 01	TO	3020	180	130	130.8	130.3	129.6	129.7	129.6	129.4	129.4	128.8	aJ64
05S 33W 29BDA 01	TO	3042	115	12	17.0	20.1	20.3	20.3	19.1	17.5	15.7	17.9	aJ64
05S 34W 01BBB 01	TO	3137	237	116	114.3	113.7		113.7	113.7	115.9	117.2	114.8	aJ52
05S 34W 28ADC 01	TO	3207	247	127	134.1	140.8	133.3		133.1	133.1	133.9	142.1	aJ65
05S 35W 30CBC 01		3336				171.5	172.6	172.4	171.4	172.2	172.9	173.4	aJ85
05S 36W 21BCD 01	QA,TO	3220	155	17	15.5	18.2	18.6	22.5	17.6	18.0	21.8		aJ64

RAWLINS COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, RAWLINS COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness 1950-96
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	
01S 33W 29CCC 01	TO	115.4	0	0.2	-1.2	0.0	0.0	29	29	0
02S 31W 03CAD 01	QA	16.2	-1	-1.5	-1.0	0.0	-0.1	27	26	-4
02S 32W 20DCD 01	QA	10.0	-5	-1.7	-0.1	-0.1	-0.1	27	22	-19
02S 33W 26DCC 01	QA	20.1	-7	-0.3	-0.6	-0.2	0.0	33	26	-21
02S 35W 13ABB 01	TO	150.5	24	19.8	1.2	0.5	0.7	34	58	71
02S 35W 34CAA 01	QA,TO	32.5	-4	-2.9	-0.8	-0.1	-0.1	83	80	-4
02S 36W 13DDD 01	TO	186.3	0	3.8	0.1	0.0	0.1	74	74	0
02S 36W 36BAA 01	TO	174.6	-15	-4.8	-1.9	-0.3	-0.2	120	105	-13
03S 31W 07CBD 01	TO	146.4	-4	-0.1	-2.9	-0.1	0.0	58	54	-7
03S 33W 03DCC 01	QA	24.3	-2	-3.7	-0.7	0.0	-0.1	40	38	-5
03S 33W 08CDC 01	QA	17.9	2	-1.8	-0.6	0.0	-0.1	32	34	6
03S 34W 03ABB 01	QA	13.0	-1	0.8	-0.2	0.0	0.0	28	27	-4
03S 34W 26BAC 01	QA	10.0	-3	-1.6	-0.3	-0.1	-0.1	33	30	-9
03S 35W 24CBB 01	QA	26.2	-5	-1.5	-0.3	-0.1	-0.1	29	24	-17
03S 36W 14CBB 01	TO	204.7	-17	-13.5	-4.9	-0.4	-0.5	121	104	-14
03S 36W 17CCC 01	TO	214.3	-18	-19.0	-2.2	-0.4	-0.6	104	86	-17
03S 36W 21DBC 01	TO	216.8			-17.5					
04S 31W 16ABD 01	QA	8.6	-2	-0.7	1.0	0.0	0.0	43	41	-5
04S 33W 10ABC 01		145.5			-3.8					
04S 33W 18DDA 01	TO									
04S 33W 28DCA 01	TO									
04S 34W 33CBC 01	TO	116.6	-2	0.6	0.2	0.0	0.0	95	93	-2
04S 35W 06DCD 01	TO									
04S 35W 29DDD 01	TO									
04S 36W 23CBB 01	TO	215.2			-2.6					
04S 36W 23DCA 01		213.0			-1.3					
05S 31W 10DDA 01	TO	41.1	-11	-1.0	-1.2	-0.2	0.0	40	29	-28
05S 31W 20CCA 01	TO	38.4	-16	-8.7	-0.1	-0.3	-0.3	46	30	-35
05S 32W 14CDD 01	TO	128.8	1	2.0	0.6	0.0	0.1	50	51	2
05S 33W 29BDA 01	TO	17.9	-6	-0.9	-2.2	-0.1	0.0	103	97	-6
05S 34W 01BBB 01	TO	114.8	1	-0.5	2.4	0.0	0.0	121	122	1
05S 34W 28ADC 01	TO	142.1	-15	-8.0	-8.2	-0.3	-0.3	120	105	-13
05S 35W 30CBC 01		173.4			-0.5					
05S 36W 21BCD 01	QA,TO									

RENO COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, RENO COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
22S 04W 12CDA 01	QU	1449				36.2	43.1	47.4	37.5	28.4	38.4	36.4	aJ70
22S 04W 32BBC 01	QU	1510				14.6	18.0	19.6	12.8	9.9	17.4	14.8	aJ71
22S 06W 18BCB 01						7.7	10.0	10.9	8.8	7.5	10.7	9.3	aJ84
22S 06W 28CCB 01		1555				9.1	9.7	11.2	10.2	8.3	9.5	9.0	qJ82
22S 07W 17DCB 01	QU	1596			2.0	4.0		6.1	4.9	3.7	6.1	5.2	aJ73
22S 08W 09DBB 01	QU	1670		35		30.2	31.3	33.8	33.0	28.0	31.9	31.0	aJ73
22S 08W 23DAD 01	QU	1651			29.3	25.7	26.4	29.8	30.4	25.9	29.1	28.0	aJ73
22S 09W 03BBD 01	QU	1712		20	29.1	31.9	32.6	36.1	33.8	25.8	33.4	31.5	aJ73
22S 09W 17BAB 01	QU	1732		10	9.8	16.7	18.2	19.7	18.3	10.7	18.9	16.8	aJ73
22S 09W 25BBA 01	QU	1705			18.9	21.1	21.4	23.3	22.2	18.4	21.1	20.3	aJ73
22S 10W 02DCC 01	QU	1736		12	1.6	9.1	10.5	14.1	10.0	3.8	10.1	8.1	aJ73
22S 10W 08BBB 01	QU	1764		6	5.9	15.1	15.4	18.3	17.3	9.6	15.3	13.2	aJ74
22S 10W 30DAA 01	QU	1775		10	3.9	12.0	13.3	16.2	12.7	7.5	10.9	8.1	aJ74
23S 04W 03BAB 02		1470				3.9	7.9	7.8	3.3	4.3		5.9	aJ70
23S 04W 16BBB 01	QU	1570				24.0	24.4	26.1	20.1	16.0	22.8	20.5	aJ70
23S 04W 30BAA 01	QU	1491				9.1	9.9	10.0	8.2	6.5	9.7	8.3	aJ71
23S 06W 15BAC 01						9.8	10.1	10.5	9.4	9.4			aJ84
23S 06W 31DCB 01	QU	1577		27	32.4	29.6	30.1	30.8	31.0	29.9	30.5	30.1	qJ71
23S 07W 13DDD 01	QU	1604		49	52.8	51.8	52.4	53.0	53.2	50.4	52.6	52.6	aJ73
23S 08W 18AAD 01	QU	1675		15	10.5	13.5	13.0	14.2	15.1	13.1	13.3	11.8	aJ73
23S 09W 05CBD 01	QU	1740		9	12.0	15.7	18.0	21.6	18.4	12.8	18.1	16.0	aJ69
23S 09W 21DDB 01	QU	1732		7	3.2	9.7	12.9	17.0	10.0	7.5	13.5	10.8	aJ57
23S 09W 35CCC 01	QU	1718	110	10	13.6	17.7	18.1	18.8	19.0	16.9	24.0	20.1	qJ74
23S 10W 25CAC 01	QU	1752		18	4.5	12.2	14.3		12.9	6.4	12.5	10.4	aJ59
23S 10W 29DCA 01		1783				17.5	19.0	21.5	18.7	10.0	16.4	14.3	aJ88
24S 04W 05CDB 01	QU	1480				9.4	10.4	10.4	7.8	7.5	10.4	9.1	aJ71
24S 04W 25BBD 01	QU	1448				6.0	6.7	6.9	5.1	4.9	6.4	5.3	aJ81
24S 05W 10CCA 01	QU	1509				20.9	21.2	21.4	20.9	20.0	21.4	21.0	aJ72
24S 06W 03AAB 01		1554					28.2	28.8	28.8	27.1	28.9	28.0	aJ86
24S 06W 23CBA 01						8.5	10.7	10.8	7.5	8.8	12.1	10.4	aJ84
24S 07W 08ADA 02		1633				41.4	41.5	42.2	42.4	41.2	41.5	41.3	aJ85
24S 07W 28AAA 01	QU	1588		13	14.1	10.0	11.3	12.0	11.0	9.6	11.3	10.0	aJ73
24S 08W 04AB 01		1660		13		11.7	13.0	14.9	12.8	9.1	13.2	11.3	aJ79
24S 08W 18BAC 01	QU	1649			2.5	5.3	6.3	8.0	3.1	4.1	6.9	6.1	aJ55
24S 08W 34DAC 01	QU	1590			6.4	5.2	6.1	6.3	5.1	4.4	5.3	4.8	aJ71
24S 09W 19DDB 01	QU	1704		17	21.9	23.4	24.1	25.2	24.0	21.0	23.7	23.2	aJ66
24S 10W 06DBB 01	QU	1797		17	17.9	24.1	24.0	26.5	24.6	16.1	21.1	20.5	aJ73
24S 10W 17DDC 01	QU	1755		9	11.8	17.5	17.9	19.4	17.1	13.7	16.6	16.5	aJ73
24S 10W 31CBC 01		1750				10.2	10.6	11.0	9.8	9.1	10.3	10.3	aJ84
25S 04W 02ABB 01	QU	1449				9.2	9.3	9.8	9.0	8.8	9.8	9.4	aJ81
25S 07W 07BBD 01	QU	1602			24.3	22.6	23.2	23.6	22.8	21.5	22.6	21.8	aJ67
25S 07W 36CCC 01	QU	1570			24.5	26.1	27.9	29.3	28.5	25.7	33.4	27.7	aJ72
25S 08W 19ADB 01	QU	1607			7.3	12.0	9.2	10.6	7.1	7.9	9.7	9.1	aJ73
25S 09W 01DCD 01	QU	1658		10	12.8	13.6	14.5	15.9	14.5	11.5	14.0	13.3	aJ65
25S 09W 17BBC 01	QU	1710		7	12.6	13.2	14.6	16.3	14.4	12.6	16.4	14.9	aJ73

TABLE 1. SELECTED HYDROLOGIC DATA, RENO COUNTY (cont'd)

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
25S 09W 30DDA 01	QU	1693	115	15	16.0	17.4	17.5	18.5	16.4	16.7	18.1	17.6	aJ54
25S 10W 14BBB 01	QU	1748		25	24.9	25.3	25.7	26.9	26.6	23.6	25.9	25.9	aJ73
25S 10W 19ABD 01	QU	1790		33	27.9	28.1	29.3	30.9	30.4	26.7	30.5	29.2	aJ73
26S 06W 13BAB 01	QU	1475			7.2	10.3	10.9	12.1	6.9	8.6	10.6	9.0	aJ72
26S 06W 34BBC 01	QU	1545			17.6	16.7	17.8	19.1	18.4	18.4	19.3	18.1	aJ68
26S 07W 12DCC 01	QU	1582			30.6	29.2	31.4	33.3	33.3	30.9	32.8	32.4	aJ70
26S 08W 06DCC 01		1670				8.6	9.7	11.1	6.7	5.8	9.8	8.4	aJ87
26S 09W 10DDB 01	QU	1686		26	19.8	19.8	19.8	20.0	19.4	20.0	21.4	20.9	aJ53
26S 09W 18AAA 01	QU	1668		17	8.3	7.4	8.4	9.7	7.2	7.2	9.7	9.3	aJ74
26S 09W 31DCC 01		1735				54.4	57.0	58.8	58.5	53.9	57.9	57.2	aJ84
26S 09W 34DBD 01	QU	1685		25	25.3	25.7	27.6	30.1	28.7	25.3	28.2	27.3	aJ73
26S 10W 18CDC 01	QU	1797		13	24.6	24.7	25.1	25.8	25.0	22.4	25.1	24.9	qJ73
26S 10W 32BBD 01	QU	1760		5	24.5	27.3	28.2	29.4	27.6	25.1	29.6	28.1	aJ72

RENO COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, RENO COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	1944-96
22S 04W 12CDA 01	QU	36.4			2.0					
22S 04W 32BBC 01	QU	14.8			2.6					
22S 06W 18BCB 01		9.3			1.4					
22S 06W 28CCB 01		9.0			0.5					
22S 07W 17DCB 01	QU	5.2		-3.2	0.9		-0.1			
22S 08W 09DBB 01	QU	31.0	4		0.9	0.1				
22S 08W 23DAD 01	QU	28.0		1.3	1.1		0.1			
22S 09W 03BBD 01	QU	31.5	-12	-2.4	1.9	-0.2	-0.1			
22S 09W 17BAB 01	QU	16.8	-7	-7.0	2.1	-0.1	-0.3			
22S 09W 25BBA 01	QU	20.3		-1.4	0.8		-0.1			
22S 10W 02DCC 01	QU	8.1	4	-6.5	2.0	0.1	-0.3			
22S 10W 08BBB 01	QU	13.2	-7	-7.3	2.1	-0.1	-0.3			
22S 10W 30DAA 01	QU	8.1	2	-4.2	2.8	0.0	-0.2			
23S 04W 03BAB 02		5.9								
23S 04W 16BBB 01	QU	20.5			2.3					
23S 04W 30BAA 01	QU	8.3			1.4					
23S 06W 15BAC 01										
23S 06W 31DCB 01	QU	30.1	-3	2.3	0.4	-0.1	0.1			
23S 07W 13DDD 01	QU	52.6	-4	0.2	0.0	-0.1	0.0			
23S 08W 18AAD 01	QU	11.8	3	-1.3	1.5	0.1	-0.1			
23S 09W 05CBD 01	QU	16.0	-7	-4.0	2.1	-0.1	-0.2			
23S 09W 21DDB 01	QU	10.8	-4	-7.6	2.7	-0.1	-0.3			
23S 09W 35CCC 01	QU	20.1	-10	-6.5	3.9	-0.2	-0.3	100	90	-10
23S 10W 25CAC 01	QU	10.4	8	-5.9	2.1	0.2	-0.3			
23S 10W 29DCA 01		14.3			2.1					
24S 04W 05CDB 01	QU	9.1			1.3					
24S 04W 25BBD 01	QU	5.3			1.1					
24S 05W 10CCA 01	QU	21.0			0.4					
24S 06W 03AAB 01		28.0			0.9					
24S 06W 23CBA 01		10.4			1.7					
24S 07W 08ADA 02		41.3			0.2					
24S 07W 28AAA 01	QU	10.0	3	4.1	1.3	0.1	0.2			
24S 08W 04AB 01		11.3	2		1.9	0.0				
24S 08W 18BAC 01	QU	6.1		-3.6	0.8		-0.2			
24S 08W 34DAC 01	QU	4.8		1.6	0.5		0.1			
24S 09W 19DDB 01	QU	23.2	-6	-1.3	0.5	-0.1	-0.1			
24S 10W 06DBB 01	QU	20.5	-4	-2.6	0.6	-0.1	-0.1			
24S 10W 17DDC 01	QU	16.5	-8	-4.7	0.1	-0.2	-0.2			
24S 10W 31CBC 01		10.3			0.0					
25S 04W 02ABB 01	QU	9.4			0.4					
25S 07W 07BBD 01	QU	21.8		2.5	0.8		0.1			
25S 07W 36CCC 01	QU	27.7		-3.2	5.7		-0.1			
25S 08W 19ADB 01	QU	9.1		-1.8	0.6		-0.1			
25S 09W 01DCD 01	QU	13.3	-3	-0.5	0.7	-0.1	0.0			
25S 09W 17BBC 01	QU	14.9	-8	-2.3	1.5	-0.2	-0.1			
25S 09W 30DDA 01	QU	17.6	-3	-1.6	0.5	-0.1	-0.1			
25S 10W 14BBB 01	QU	25.9	-1	-1.0	0.0	0.0	0.0	90	89	-1
25S 10W 19ABD 01	QU	29.2	4	-1.3	1.3	0.1	-0.1			
26S 06W 13BAB 01	QU	9.0		-1.8	1.6		-0.1			
26S 06W 34BBC 01	QU	18.1		-0.5	1.2		0.0			

TABLE 2. DERIVED HYDROLOGIC DATA, RENO COUNTY (cont'd)

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	1944-96
		1996								
26S 07W 12DCC 01	QU	32.4		-1.8	0.4		-0.1			
26S 08W 06DCC 01		8.4			1.4					
26S 09W 10DDB 01	QU	20.9	5	-1.1	0.5	0.1	-0.1			
26S 09W 18AAA 01	QU	9.3	8	-1.0	0.4	0.2	0.0			
26S 09W 31DCC 01		57.2			0.7					
26S 09W 34DBD 01	QU	27.3	-2	-2.0	0.9	0.0	-0.1			
26S 10W 18CDC 01	QU	24.9	-12	-0.3	0.2	-0.2	0.0			
26S 10W 32BBD 01	QU	28.1	-23	-3.6	1.5	-0.4	-0.2			

REPUBLIC COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, REPUBLIC COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
01S 03W 01CCA 01		1610				142.0	145.2	145.2	143.7	141.6		142.7	qD72

REPUBLIC COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, REPUBLIC COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	
		1996								1944-96
01S 03W 01CCA 01		142.7								

RICE COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, RICE COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
20S 08W 22AAA 01	QA	1644		14		15.6	15.1	17.3	15.6	12.6	15.6	14.5	qJ79
20S 09W 12DDA 01		1664		11	8.3	14.2	15.4	16.2	12.6	10.5	13.4	11.6	qJ60
20S 09W 28ACD 01						20.8		22.1	19.7	17.1	19.8	19.3	aJ88
20S 10W 27BBB 01		1786		46		34.6	34.0	34.9	33.7	30.9	33.0	32.4	aJ85
20S 10W 36ACD 01		1715		10			14.8	15.8	14.2	10.0	13.4	12.3	aJ77
21S 07W 04AAC 01		1615		14			15.8	16.4	13.8	13.1	15.9	14.8	aJ77
21S 07W 26CBD 01		1595		10		13.8	13.6	15.0	12.2	11.0	14.3	12.9	aJ77
21S 08W 09CBD 01		1647		9		13.2	12.6	14.4	13.1	9.3	12.3	11.0	qJ77
21S 08W 25ABB 01		1620		7		4.5	5.8	7.0	5.6	3.6	6.6	5.3	qJ77
21S 08W 32DBB 01		1641		3		7.2	7.8	7.8		6.4	8.2	7.6	aJ85
21S 09W 02DDA 01		1670		9		13.8	14.3	15.8	13.3	11.3	15.0	12.5	aJ77
21S 09W 15AAC 02		1669				6.9	6.5	6.5	5.1	4.5	7.3		aJ85
21S 10W 16CDC 01		1720				7.4	5.6	7.6	5.5	5.0	7.2	6.6	aJ84

RICE COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, RICE COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	1944-96
		1996								
20S 08W 22AAA 01	QA	14.5	-1		1.1	0.0				
20S 09W 12DDA 01		11.6	-1	-3.3	1.8	0.0	-0.2			
20S 09W 28ACD 01		19.3			0.5					
20S 10W 27BBB 01		32.4	14		0.6	0.3				
20S 10W 36ACD 01		12.3	-2		1.1	0.0				
21S 07W 04AAC 01		14.8	-1		1.1	0.0				
21S 07W 26CBD 01		12.9	-3		1.4	-0.1				
21S 08W 09CBD 01		11.0	-2		1.3	0.0				
21S 08W 25ABB 01		5.3	2		1.3	0.0				
21S 08W 32DBB 01		7.6	-5		0.6	-0.1				
21S 09W 02DDA 01		12.5	-4		2.5	-0.1				
21S 09W 15AAC 02										
21S 10W 16CDC 01		6.6			0.6					

RILEY COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, RILEY COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
10S 09E 17BDD 01		996			20.7	20.0	19.9		19.7	11.4			aM66

RILEY COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, RILEY COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
10S 09E 17BDD 01										

ROOKS COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, ROOKS COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
07S 19W 23CDB 01		1879			18.7		16.6			14.5		15.2	qD58

ROOKS COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, ROOKS COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
07S 19W 23CDB 01		15.2			3.5				0.1	

RUSH COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, RUSH COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1950	1966	1990	1991	1992	1993	1994	1995		1996
18S 16W 23DCC 01		1930				24.8	24.7	26.5		10.0		12.4	qD86
18S 16W 23DCC 02		1930				27.5	27.3	28.9		10.1		15.1	qD86
18S 17W 22AAD 01		1960			25.8		35.9	37.1		18.4		25.0	qD60
18S 17W 23BCC 01		1958			25.1	36.7	36.4	37.3		18.5		24.0	qD60
18S 18W 27AAC 01		1993			27.6	33.9	33.7	33.4		29.7		29.3	qD65
18S 19W 20ADD 01		2034				32.7	31.6	31.2		16.6		21.7	qD69
18S 20W 14CCC 01		2050				23.4	22.5	24.7		17.5		20.7	qD60
18S 20W 19AAD 01		2077			31.2	27.9	26.5	30.3		21.9		24.9	qD60

RUSH COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, RUSH COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
		1996								
18S 16W 23DCC 01		12.4								
18S 16W 23DCC 02		15.1								
18S 17W 22AAD 01		25.0		0.8			0.0			
18S 17W 23BCC 01		24.0		1.1			0.0			
18S 18W 27AAC 01		29.3		-1.7			-0.1			
18S 19W 20ADD 01		21.7								
18S 20W 14CCC 01		20.7								
18S 20W 19AAD 01		24.9		6.3			0.2			

SALINE COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, SALINE COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
13S 01W 23BCB 02		1172				20.0	20.4	21.1	17.7	8.0		14.3	qD82
13S 02W 33DDC 01		1207				24.8	24.5	25.6	22.7	15.0		20.0	qD85

SALINE COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, SALINE COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
		1996	1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
13S 01W 23BCB 02		14.3								
13S 02W 33DDC 01		20.0								

SCOTT COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, SCOTT COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
16S 31W 17DDD 01	TO	2931	161	118		121.1	122.0	121.5	120.4	122.8	122.0	121.2	aJ51
16S 31W 31BCB 01	TO	2958	168	127	128.4	137.5	136.9	140.4	135.0	134.4	136.0	138.1	aJ51
16S 32W 16BCA 01		2999				157.7	157.7	158.0	158.0	162.9	157.6	157.8	aJ88
16S 33W 19CBB 01	TO	3097	192	124	140.7	159.5	160.4	161.5	160.4	160.4			qJ59
16S 33W 33BAA 01	TO	3066	194	130		153.7	154.0	154.8	154.6	155.5	156.3	156.9	aJ69
16S 34W 09CCB 01	TO	3146	181	118	133.5	160.0	160.9	161.3	161.8	161.8	162.0	162.4	aJ51
16S 34W 29CBB 01	TO	3160	181	119	134.1	169.2	170.9	174.1	170.0	168.7	169.5	173.0	aJ67
17S 31W 04DCC 01	TO	2932	170	117		133.7	134.5	127.6	126.0	125.9	128.1	128.4	aJ76
17S 31W 19CDA 01	TO	2960				127.4	127.3	129.9	129.1	130.0			aJ83
17S 31W 35CCB 01	TO	2925	147	86		99.2	99.4	100.0	98.8	99.0	100.3	100.6	aJ77
17S 32W 16BBB 01	TO	2980	231	88		142.0	140.2		135.8		145.6	146.2	aJ71
17S 32W 27BBB 01	TO	2990	180	95	107.0	148.7	150.2		151.2	154.2			aJ65
17S 33W 14ACB 01	TO	3014	214	93		146.8	146.2	147.4	145.4	145.3	147.5	149.1	aJ69
17S 34W 06BCB 01	TO	3163	194	108	118.5	152.8	152.7	154.6	153.5	152.1	154.7	157.6	aJ65
17S 34W 16ACB 01	TO	3134	194	107	112.1		135.2	136.3	136.2		140.2		aJ51
17S 34W 25DBB 01	TO	3092	189	103	114.5	143.2	141.4	143.7		140.4	142.2	143.3	aJ65
18S 31W 24BCB 01	TO	2913	110	68		74.6	73.4	72.9	71.6	69.8	68.9	68.3	aJ73
18S 31W 27ABA 01	TO	2930	105	70		67.7	69.1	67.4	65.9	64.8	67.7	69.6	aJ77
18S 32W 14BBB 01	TO	2980	175	85	98.4	119.0	120.7		123.2	115.4	117.0	117.0	aJ67
18S 32W 17ABA 02	TO	2973				119.2	119.9	122.0	121.3	120.2	120.7	122.0	aJ81
18S 33W 03CCB 01	TO	3008	182	71	83.1	122.1	122.8	124.1	124.8	123.6	125.3	128.6	aJ51
18S 33W 05CCC 01	TO	3041	119	75	84.7	101.4	102.0	102.4	102.8	103.0	103.2	103.6	qJ44
18S 34W 05CBB 01	TO	3148	168	88			119.5	118.2			118.5	118.1	aJ77
18S 34W 25BBD 01	TO	3092	132	90	95.8	114.5	114.8	115.2	114.9	114.5	114.3	114.2	aJ40
18S 34W 34BBC 01	TO	3130	160	90	100.6	117.4	118.1	118.1	116.6	115.2	114.8	114.6	aJ44
19S 32W 06CCB 01		2937	199	21		75.9	77.2	77.9	76.8	74.7	75.9	78.4	mJ72
19S 32W 32ACB 01	QU,TO	2984	204	69		88.0	90.5	91.2	89.2	87.9	89.9	89.3	aJ73
19S 33W 06DBB 01	TO,TO	3021	117	59		61.5	61.2	61.3		60.6	60.6	60.7	aJ71
19S 33W 15DBD 01	TO	2964	132	56	70.9	108.6	109.3	110.9	110.6	107.0	109.2	110.4	qJ36
19S 33W 29CBB 02		2994	174	76	101.0	114.8	115.7	113.9	114.9	114.9	115.4	116.0	qJ71
19S 34W 19DCCC01		3138				126.4	126.5	127.1		126.7	126.7	126.8	aJ80
20S 32W 16DAD 01	TO	2955	155	57		116.3	117.9	116.2	110.8	105.4	109.0	110.5	aJ71
20S 32W 30BCD 01	TO	2917	187	25		108.6	112.6	113.4	111.5	108.9	109.7	112.7	aJ77
20S 33W 09BBB 01	TO	2973	128	60	84.5	103.1	102.2	102.1	102.3	102.7	102.7	102.8	qJ31
*20S 34W 15BAA 01	TO	3060	138	97		107.8	102.4	103.8	101.8	98.9	101.3	101.2	aJ77
20S 34W 36CCD 01	TO	2962	107	53		78.0	77.3	78.3	76.4	74.7	73.9	74.5	aJ71

SCOTT COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, SCOTT COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness 1940-96
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	
16S 31W 17DDD 01	TO	121.2	-3		0.8	-0.1		43	40	-7
16S 31W 31BCB 01	TO	138.1	-11	-9.7	-2.1	-0.2	-0.3	41	30	-27
16S 32W 16BCA 01		157.8			-0.2					
16S 33W 19CBB 01	TO									
16S 33W 33BAA 01	TO	156.9	-27		-0.6	-0.5		64	37	-42
16S 34W 09CCB 01	TO	162.4	-44	-28.9	-0.4	-0.8	-1.0	63	19	-70
16S 34W 29CBB 01	TO	173.0	-54	-38.9	-3.5	-1.0	-1.3	62	8	-87
17S 31W 04DCC 01	TO	128.4	-11		-0.3	-0.2		53	42	-21
17S 31W 19CDA 01	TO									
17S 31W 35CCB 01	TO	100.6	-15		-0.3	-0.3		61	46	-25
17S 32W 16BBB 01	TO	146.2	-58		-0.6	-1.0		143	85	-41
17S 32W 27BBB 01	TO									
17S 33W 14ACB 01	TO	149.1	-56		-1.6	-1.0		121	65	-46
17S 34W 06BCB 01	TO	157.6	-50	-39.1	-2.9	-0.9	-1.3	86	36	-58
17S 34W 16ACB 01	TO									
17S 34W 25DBB 01	TO	143.3	-40	-28.8	-1.1	-0.7	-1.0	86	46	-47
18S 31W 24BCB 01	TO	68.3	0		0.6	0.0		42	42	0
18S 31W 27ABA 01	TO	69.6	0		-1.9	0.0		35	35	0
18S 32W 14BBB 01	TO	117.0	-32	-18.6	0.0	-0.6	-0.6	90	58	-36
18S 32W 17ABA 02	TO	122.0			-1.3					
18S 33W 03CCB 01	TO	128.6	-58	-45.5	-3.3	-1.0	-1.5	111	53	-52
18S 33W 05CCC 01	TO	103.6	-29	-18.9	-0.4	-0.5	-0.6	44	15	-66
18S 34W 05CBB 01	TO	118.1	-30		0.4	-0.5		80	50	-38
18S 34W 25BBD 01	TO	114.2	-24	-18.4	0.1	-0.4	-0.6	42	18	-57
18S 34W 34BBC 01	TO	114.6	-25	-14.0	0.2	-0.4	-0.5	70	45	-36
19S 32W 06CCB 01		78.4	-57		-2.5	-1.0		178	121	-32
19S 32W 32ACB 01	QU,TO	89.3	-20		0.6	-0.4		135	115	-15
19S 33W 06DBB 01	TO,TO	60.7	-2		-0.1	0.0		58	56	-3
19S 33W 15DBD 01	TO	110.4	-54	-39.5	-1.2	-1.0	-1.3	76	22	-71
19S 33W 29CBB 02		116.0	-40	-15.0	-0.6	-0.7	-0.5	98	58	-41
19S 34W 19DCCC01		126.8			-0.1					
20S 32W 16DAD 01	TO	110.5	-54		-1.5	-1.0		98	45	-54
20S 32W 30BCD 01	TO	112.7	-88		-3.0	-1.6		162	74	-54
20S 33W 09BBB 01	TO	102.8	-43	-18.3	-0.1	-0.8	-0.6	68	25	-63
*20S 34W 15BAA 01	TO	101.2	-4		0.1	-0.1		41	37	-10
20S 34W 36CCD 01	TO	74.5	-22		-0.6	-0.4		54	33	-39

SEDGWICK COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, SEDGWICK COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
25S 01W 07ABD 01	QU	1377				29.9	32.1	34.1	33.6	31.6	31.8	31.0	aJ81
25S 01W 26DBD 01	QU	1352		17	14.5	19.3	20.2	21.1	19.3	17.6	19.0	19.1	qJ37
25S 01W 28DBA 01	QU	1364				14.6	16.0	17.2	14.1	12.4	16.1	14.9	aJ81
25S 02W 23DBD 01	QU	1379				10.6	11.8	13.4	11.3	9.0			aJ81
25S 03W 03DDD 01	QA,QU	1423				12.0	13.3	13.7	11.9	10.9	12.6	11.3	qJ53
25S 03W 15CCC 01	QU	1428				21.8	22.9	23.9	22.3	20.7	22.7	21.3	aJ81
26S 01W 12BAD 01	QU	1341				15.6	16.9	17.8	15.3	15.3	17.3	16.4	aJ81
26S 01W 19ABA 01	QU	1352				6.7	8.4	8.7	5.6	5.4	7.5	7.3	qJ38
26S 01W 31CCD 01		1370				38.9	39.9	40.8	39.6	37.1	38.8	38.0	aJ44
26S 02W 08AAB 01	QU	1397				31.1	32.2	33.4	31.6	29.2	31.4	30.5	aJ81
26S 02W 29AAA 01	QU	1384				24.8	25.6	26.7	25.8	23.8	25.1	24.8	qJ60
26S 03W 02AAC 01	QU	1409				21.6	23.0	24.4	22.3	20.2	22.3	21.2	aJ81

SEDGWICK COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, SEDGWICK COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	1944-96
		1996								
25S 01W 07ABD 01	QU	31.0			0.8					
25S 01W 26DBD 01	QU	19.1	-2	-4.6	-0.1	0.0	-0.2			
25S 01W 28DBA 01	QU	14.9			1.2					
25S 02W 23DBD 01	QU									
25S 03W 03DDD 01	QA,QU	11.3			1.3					
25S 03W 15CCC 01	QU	21.3			1.4					
26S 01W 12BAD 01	QU	16.4			0.9					
26S 01W 19ABA 01	QU	7.3			0.2					
26S 01W 31CCD 01		38.0			0.8					
26S 02W 08AAB 01	QU	30.5			0.9					
26S 02W 29AAA 01	QU	24.8			0.3					
26S 03W 02AAC 01	QU	21.2			1.1					

SEWARD COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, SEWARD COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
31S 31W 08BCC 01	QU,TO	2829	519	164	169.4	228.4	240.9	256.6	244.4	244.9	251.2		aJ62
31S 32W 03DAD 01	QU,TO	2845	496	158	174.1	237.2	238.6	242.3	244.9	248.7	254.5		aJ58
31S 32W 31BBB 01		2864	454	174		221.3	226.1	226.3	227.6	228.0	230.9	234.1	aJ85
31S 33W 06CBD 01	QU,TO	2948	498	210	211.2	255.6	255.5	257.3	259.0	260.7	261.4	265.0	aJ58
31S 33W 20DBB 01	QU,TO	2897	537	179	179.1	222.6	218.5	220.5	222.9	224.1	226.3	228.9	aJ64
31S 34W 18BBB 01	QU,TO	2951	421	186	186.3	231.8	232.3	235.6	238.0	239.6	247.8	250.1	aJ58
32S 31W 08BBB 01	QU,TO	2815	455	175	165.5	213.6	216.0	219.2	222.6	224.2	226.4	230.3	aJ64
32S 31W 26CAA 01	QU,TO	2783	453	180	182.9	220.0	227.7	229.8	227.3	229.3	237.0	233.2	aJ79
32S 32W 14BBB 01	QU,TO	2830	435	180	192.8	232.6	233.8	237.2	236.9	237.6	240.2	243.0	qJ64
32S 32W 19BAB 01	QU,TO	2854	475	189	194.7	224.7	225.0	224.0	229.1	229.5	231.5	233.7	aJ58
32S 33W 32DBD 01		2830				155.8	163.9	165.6	167.8	169.1	171.7	173.2	aJ85
32S 34W 10DAA 01	QU,TO	2925	470	205	203.5			240.0	238.6		244.0	245.7	aJ66
32S 34W 32BBB 01	QU,TO	2921	491	159	154.3	181.3	182.6	185.2	186.4	187.3	188.1	191.3	aJ58
33S 31W 09AAB 01		2766				208.6	212.9	212.2	213.0	213.9	215.0	216.8	aJ88
33S 31W 28DDB 01		2720	550	190			193.2	189.8	190.4	192.6			aJ85
33S 32W 28CDD 02	QU,TO	2630	399	60		58.8	58.7	59.4	58.9	59.0	59.7	60.8	aJ74
33S 33W 12AAD 01	QU,TO	2626	316	5	5.7		10.2	12.4	13.8	15.1			aJ64
33S 33W 20BCC 01		2866		176		207.6	202.4	203.8	204.8	206.5	207.9	208.8	aJ81
33S 33W 25DCC 01		2810		197		202.0	202.4	204.0	203.0	204.3	205.6	206.6	aJ67
33S 34W 17DCC 01		2918		123		122.6	124.1	127.6	128.6	129.5	144.9	139.5	aJ83
34S 31W 30BBB 01		2731	671	208		212.3	213.9	214.3	215.0	215.3	215.5	216.0	aJ40
34S 32W 29BAA 01		2765	525	175		170.7	171.2	173.2	173.1	173.9	174.2	175.3	aJ85
34S 32W 35ADA 01	QU,TO	2734		189			194.1	195.9	195.8	196.1	196.0		aJ77
*34S 33W 07CCB 01		2901	575	140	126.7	140.4		142.4	143.0	144.0	144.8	146.0	qJ64
34S 34W 16DAA 01	QU,TO	2943	673	114	94.5	132.2	129.5	138.1	143.7	141.1	150.6	156.3	aJ65
34S 34W 26BCA 01		2908		98		113.9	117.6	117.4	116.8	116.8	121.2	127.4	aJ85
35S 31W 10AAC 01		2690				194.8		197.9	200.5	201.7	200.7		aJ85
35S 32W 06CBB 01		2780	540	150		164.8	168.9	169.5	167.4	169.8	169.8	171.7	aJ85
35S 33W 16BCA 01	QU,TO	2838	658	126	103.7	130.9	133.7	138.7	135.4	135.5	137.4	139.1	aJ64
35S 34W 03CBC 01		2920	660	95		110.4	103.7	108.8	109.0	108.8			aJ78
35S 34W 10BBB 01	QU,TO	2912	647	90	80.3	81.5	83.7	85.8	86.6	87.7	88.8	90.5	aJ54

SEWARD COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, SEWARD COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	1940-96
		1996								
31S 31W 08BCC 01	QU,TO									
31S 32W 03DAD 01	QU,TO									
31S 32W 31BBB 01		234.1	-60		-3.2	-1.1		280	220	-21
31S 33W 06CBD 01	QU,TO	265.0	-55	-53.8	-3.6	-1.0	-1.8	288	233	-19
31S 33W 20DBB 01	QU,TO	228.9	-50	-49.8	-2.6	-0.9	-1.7	358	308	-14
31S 34W 18BBB 01	QU,TO	250.1	-64	-63.8	-2.3	-1.1	-2.1	235	171	-27
32S 31W 08BBB 01	QU,TO	230.3	-55	-64.8	-3.9	-1.0	-2.2	280	225	-20
32S 31W 26CAA 01	QU,TO	233.2	-53	-50.3	3.8	-0.9	-1.7	273	220	-19
32S 32W 14BBB 01	QU,TO	243.0	-63	-50.2	-2.8	-1.1	-1.7	255	192	-25
32S 32W 19BAB 01	QU,TO	233.7	-45	-39.0	-2.2	-0.8	-1.3	286	241	-16
32S 33W 32DBD 01		173.2			-1.5					
32S 34W 10DAA 01	QU,TO	245.7	-41	-42.2	-1.7	-0.7	-1.4	265	224	-15
32S 34W 32BBB 01	QU,TO	191.3	-32	-37.0	-3.2	-0.6	-1.2	332	300	-10
33S 31W 09AAB 01		216.8			-1.8					
33S 31W 28DDB 01										
33S 32W 28CDD 02	QU,TO	60.8	-1		-1.1	0.0		339	338	0
33S 33W 12AAD 01	QU,TO									
33S 33W 20BCC 01		208.8	-33		-0.9	-0.6				
33S 33W 25DCC 01		206.6	-10		-1.0	-0.2				
33S 34W 17DCC 01		139.5	-17		5.4	-0.3				
34S 31W 30BBB 01		216.0	-8		-0.5	-0.1		463	455	-2
34S 32W 29BAA 01		175.3	0		-1.1	0.0		350	350	0
34S 32W 35ADA 01	QU,TO									
*34S 33W 07CCB 01		146.0	-6	-19.3	-1.2	-0.1	-0.6	435	429	-1
34S 34W 16DAA 01	QU,TO	156.3	-42	-61.8	-5.7	-0.8	-2.1	559	517	-8
34S 34W 26BCA 01		127.4	-29		-6.2	-0.5				
35S 31W 10AAC 01										
35S 32W 06CBB 01		171.7	-22		-1.9	-0.4		390	368	-6
35S 33W 16BCA 01	QU,TO	139.1	-13	-35.4	-1.7	-0.2	-1.2	532	519	-2
35S 34W 03CBC 01										
35S 34W 10BBB 01	QU,TO	90.5	-1	-10.2	-1.7	0.0	-0.3	557	557	0

SHERIDAN COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, SHERIDAN COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
*06S 26W 26CBB 01		2636					167.4	168.5	168.1	167.6	168.1	168.6	aD84
*06S 27W 05CBB 01		2684				114.0	112.3	113.1	111.9	111.2	111.6	111.5	aD84
*06S 27W 08DCA 01	QA,TO	2588	108	21	14.6	24.4	22.4	22.4	21.2	16.4	18.4	18.0	aD64
*06S 27W 19ADC 01		2620				34.7	34.4	35.1	34.5	32.5	31.5	33.0	aD87
06S 29W 10DBC 01	TO	2823	205	116	118.6	135.6	130.2			129.4	129.6	130.3	aD65
*06S 29W 24ABB 01	TO	2781	205	91	96.2	108.9	108.5	109.3	107.2	104.6	105.9	106.9	aD66
06S 29W 33CDA 01	TO	2828	207	94	93.3	116.8	112.4	113.5		111.7	112.1	112.7	aD65
*06S 30W 13BAA 01	TO	2875	216	115		133.3	130.1	130.4	128.3	127.6	127.3	128.1	qD75
06S 30W 14CCD 01	TO	2884	203	95	102.8	113.1	112.6	113.1	110.4	111.8	111.9	111.8	aD65
07S 26W 06AAB 01	TO	2634	204	125	125.9	135.6	137.1	137.0	135.1	136.1	135.7	136.8	aD64
*07S 26W 12BAC 01	TO	2559	170	94	91.9	103.5	102.4	101.1	100.3	100.1	101.5	101.3	aD65
*07S 26W 19BBC 01	TO	2625	201	115		127.2	127.7	128.1	126.5	126.8	126.8	127.5	qD75
07S 26W 28CAB 01	TO	2634	243	142	148.4	156.4	156.4	157.3		155.8	155.1	154.5	aD65
07S 27W 22DAC 01		2644				116.9	117.2	118.1	117.1	115.9	116.2	117.1	aD84
07S 28W 08BDC 01	TO	2808	282	140		171.4	170.6	171.1		170.5			aD68
07S 28W 21ABB 01	TO	2774	235	129	131.0	165.1	164.7	166.9	163.2	159.9	160.4	164.9	aD65
*07S 28W 36ABA 01	TO	2725	233	123	127.5	144.9	145.3	146.0	145.9	145.6	146.2	145.4	aD64
*07S 29W 05BBB 01		2841				108.1	108.3			107.8	106.9	108.6	aD84
*07S 29W 27CCC 01	TO	2869	265	131		190.4	190.7	191.0	187.2	185.2	186.0	188.9	aD76
*07S 29W 30ABA 01	TO	2887	255	113	121.8		165.1	168.9	168.3	165.3	164.1	164.3	aD62
*07S 30W 08CBB 01		2919				102.0	102.2	103.4	101.6	96.4	103.1	103.2	aD84
*08S 26W 14DAA 01	QA	2398	66	13	19.5	19.8	19.5	20.5	19.6	9.3	14.2	13.9	aD65
*08S 27W 11DCD 01	QA	2504	60	13	8.5	10.8	10.6	11.1		10.1	9.8	9.6	aD64
*08S 27W 35CBB 01						128.5	128.9	128.9	129.1	127.8	126.3	124.4	aD84
*08S 28W 11DAA 01		2692				99.7	100.1	100.6	100.5	99.1	99.7	100.4	aD84
*08S 29W 01DCB 01	TO	2823	240	125	122.6	161.1	161.8	163.0	162.7	162.3	162.3	163.3	aD64
*08S 30W 11CBC 01	TO	2941	277	123	133.5	192.9	189.4	191.3	189.6	187.8	190.1	190.8	aD64
*08S 30W 13DAA 01	TO	2891	257	103	109.7	154.0	153.0	154.8	155.5	149.2	154.9	156.6	qD64
*08S 30W 30ABC 01	TO	2962	234	107	105.8	140.1	142.2	143.3		140.7	141.9	142.1	aD65
*09S 26W 22BBB 01		2669				138.0	141.5	142.5		139.1	137.6	137.1	aD84
*09S 27W 12CCC 01	TO	2678	198	104	106.5	107.5	107.5	107.3		105.7	101.1	100.6	aD66
*09S 27W 19DDD 01	TO	2750	205	124	123.6	130.1	131.4	134.7	131.8	132.0	129.7	128.7	aD52
*09S 27W 27DAA 01		2705				113.3	114.3	112.6	115.2	108.0	106.8	106.7	aD84
*09S 28W 04BCC 01	QA,TO	2677	98	18	25.7	28.3	28.1	28.5		25.3	26.7	26.2	aD64
*09S 29W 03AAA 01		2819				108.6	110.9	110.7	111.1	108.2	109.5	110.3	aD84
*09S 29W 17BAB 01	TO	2854	196	84	84.2	110.3	109.4	111.0		106.1	105.8	106.1	aD66
09S 29W 26BAA 01	TO	2863	210	123	132.0		135.5			140.3		138.8	aD64
*09S 30W 03AAB 02	TO	2933	217	118	119.2	152.4	152.7	163.9	154.7	154.9	156.6	156.6	aD64
*09S 30W 35BBB 01	TO	2944	215	120	129.3	157.1	151.1	150.8	150.1	148.7	157.3	161.7	qD62
*10S 26W 12AAD 01		2534				28.7	29.3	28.4	25.7	24.0	24.0	22.9	aD84
*10S 27W 20CBC 01	QA	2605	50	12	13.9	22.4	23.1			15.4	17.9	17.2	aD66
*10S 27W 22DBA 01	QA	2568	65	10	18.5	23.7	23.0	23.6		17.5	18.0	17.3	aD65
*10S 28W 05DDDB 01	TO	2789	173	99	95.2	109.2	109.9	110.5		105.2	105.5	106.3	aD65
*10S 28W 29DAA 01	QA,TO	2691	62	22	25.4	27.0	26.7	31.1	29.3	25.0	25.8	35.5	aD64
*10S 29W 02DDD 01		2803				82.2	83.4	83.7	83.3	79.6	79.2	79.4	aD84

TABLE 1. SELECTED HYDROLOGIC DATA, SHERIDAN COUNTY (cont'd)

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
*10S 29W 20CAA 01						74.1	70.9	70.9		65.7	65.8	65.6	aD84
*10S 30W 08DDD 01	TO	2930	186	96	93.0	102.7	103.5	102.3	101.0	98.7	98.2	97.9	qD64
*10S 30W 12ADA 01	TO	2874	187	89	87.7	107.3	102.9	102.5	101.8	99.5	100.2	99.8	aD65

SHERIDAN COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, SHERIDAN COUNTY

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
*06S 26W 26CBB 01		168.6			-0.5					
*06S 27W 05CBB 01		111.5			0.1					
*06S 27W 08DCA 01	QA,TO	18.0	3	-3.4	0.4	0.1	-0.1	87	90	3
*06S 27W 19ADC 01		33.0			-1.5					
06S 29W 10DBC 01	TO	130.3	-14	-11.7	-0.7	-0.3	-0.4	89	75	-16
*06S 29W 24ABB 01	TO	106.9	-16	-10.7	-1.0	-0.3	-0.4	114	98	-14
06S 29W 33CDA 01	TO	112.7	-19	-19.4	-0.6	-0.4	-0.6	113	94	-17
*06S 30W 13BAA 01	TO	128.1	-13		-0.8	-0.3		101	88	-13
06S 30W 14CCD 01	TO	111.8	-17	-9.0	0.1	-0.4	-0.3	108	91	-16
07S 26W 06AAB 01	TO	136.8	-12	-10.9	-1.1	-0.3	-0.4	79	67	-15
*07S 26W 12BAC 01	TO	101.3	-7	-9.4	0.2	-0.2	-0.3	76	69	-9
*07S 26W 19BBC 01	TO	127.5	-13		-0.7	-0.3		86	74	-14
07S 26W 28CAB 01	TO	154.5	-13	-6.1	0.6	-0.3	-0.2	101	89	-12
07S 27W 22DAC 01		117.1			-0.9					
07S 28W 08BDC 01	TO									
07S 28W 21ABB 01	TO	164.9	-36	-33.9	-4.5	-0.8	-1.1	106	70	-34
*07S 28W 36ABA 01	TO	145.4	-22	-17.9	0.8	-0.5	-0.6	110	88	-20
*07S 29W 05BBB 01		108.6			-1.7					
*07S 29W 27CCC 01	TO	188.9	-58		-2.9	-1.3		134	76	-43
*07S 29W 30ABA 01	TO	164.3	-51	-42.5	-0.2	-1.1	-1.4	142	91	-36
*07S 30W 08CBB 01		103.2			-0.1					
*08S 26W 14DAA 01	QA	13.9	-1	5.6	0.3	0.0	0.2	53	52	-2
*08S 27W 11DCD 01	QA	9.6	3	-1.1	0.2	0.1	0.0	47	50	6
*08S 27W 35CBB 01		124.4			1.9					
*08S 28W 11DAA 01		100.4			-0.7					
*08S 29W 01DCB 01	TO	163.3	-38	-40.7	-1.0	-0.8	-1.4	115	77	-33
*08S 30W 11CBC 01	TO	190.8	-68	-57.3	-0.7	-1.5	-1.9	154	86	-44
*08S 30W 13DAA 01	TO	156.6	-54	-46.9	-1.7	-1.2	-1.6	154	100	-35
*08S 30W 30ABC 01	TO	142.1	-35	-36.3	-0.2	-0.8	-1.2	127	92	-28
*09S 26W 22BBB 01		137.1			0.5					
*09S 27W 12CCC 01	TO	100.6	3	5.9	0.5	0.1	0.2	94	97	3
*09S 27W 19DDD 01	TO	128.7	-5	-5.1	1.0	-0.1	-0.2	81	76	-6
*09S 27W 27DAA 01		106.7			0.1					
*09S 28W 04BCC 01	QA,TO	26.2	-8	-0.5	0.5	-0.2	0.0	80	72	-10
*09S 29W 03AAA 01		110.3			-0.8					
*09S 29W 17BAB 01	TO	106.1	-22	-21.9	-0.3	-0.5	-0.7	112	90	-20
09S 29W 26BAA 01	TO	138.8	-16	-6.8		-0.3	-0.2	87	71	-18
*09S 30W 03AAB 02	TO	156.6	-39	-37.4	0.0	-0.8	-1.2	99	60	-39
*09S 30W 35BBB 01	TO	161.7	-42	-32.4	-4.4	-0.9	-1.1	95	53	-44
*10S 26W 12AAD 01		22.9			1.1					
*10S 27W 20CBC 01	QA	17.2	-5	-3.3	0.7	-0.1	-0.1	38	33	-13
*10S 27W 22DBA 01	QA	17.3	-7	1.2	0.7	-0.2	0.0	55	48	-13
*10S 28W 05DDB 01	TO	106.3	-7	-11.1	-0.8	-0.2	-0.4	74	67	-9
*10S 28W 29DAA 01	QA,TO	35.5	-14	-10.1	-9.7	-0.3	-0.3	40	27	-33
*10S 29W 02DDD 01		79.4			-0.2					
*10S 29W 20CAA 01		65.6			0.2					
*10S 30W 08DDD 01	TO	97.9	-2	-4.9	0.3	0.0	-0.2	90	88	-2
*10S 30W 12ADA 01	TO	99.8	-11	-12.1	0.4	-0.2	-0.4	98	87	-11

SHERMAN COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, SHERMAN COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
06S 37W 07BBA 01	QA	3304	134	5	6.1	6.3	7.2	7.8		6.6	8.0	7.6	aJ64
06S 37W 16CDD 01	TO	3460	264	157	163.8	174.1	173.0	173.6	173.1	172.2	171.4	172.3	aJ66
06S 37W 19ABB 01	TO	3476	309	150	155.4	160.5	160.2	159.6		159.7	160.1	159.7	aJ65
06S 39W 09DDD 01	TO	3585	330	145	142.7	150.4	150.7	150.9	151.1	152.0	151.4	151.6	aJ49
06S 40W 10AAC 01	TO	3641	341	151	151.2	162.9	163.2		164.1	163.9	164.3	164.8	aJ64
06S 40W 13CBC 01		3624				149.5	150.1	150.1	149.6	150.0	150.3	150.4	aJ85
06S 40W 30DCC 01	TO	3718	326	159	153.6	169.6	170.1	170.0	170.0	170.3	170.4	170.6	aJ65
06S 41W 19DBD 01	TO	3792	325	162	169.5	188.7	190.9	192.8	192.3	189.2	189.9	189.9	aJ65
06S 41W 27DBD 01	TO	3741	325	141	142.1	165.8	166.6	167.7	165.5	164.8	167.3		aJ64
06S 42W 02AAA 01	TO	3777	277	179	181.7	199.3	199.6	201.3	202.8	199.2	200.3	200.1	aJ59
06S 42W 08CBB 01	TO	3841	304	183	201.3	211.6	213.3	211.8	212.1	210.9	212.6	212.8	aJ64
06S 42W 22DCC 01	TO	3837	315	177	183.1	197.1	197.6	198.2	199.7	197.4	199.3	200.7	aJ65
06S 42W 30ADA 01	TO	3871	309	176	183.6		205.2	205.4	206.2	206.0	207.5	208.1	aJ64
07S 37W 04BBC 01	TO	3455	270	122		139.0	139.1	143.0	139.5	143.3	138.8	138.6	aJ75
07S 37W 05CCB 01	TO	3472	294	124	129.9	140.0	140.2	140.5	140.8	140.2	141.5	142.1	aJ65
07S 38W 28DAA 01		3545				149.9	149.6	148.9	148.1	147.8	148.5	152.1	aJ85
07S 39W 01DCD 01		3563				134.7	135.6	135.3	135.9	134.4	135.1	135.5	aJ85
07S 39W 09BBB 01	TO	3589	295	106	104.8	117.6	117.6	118.3	117.9	117.8	118.0	117.8	aJ64
07S 39W 24BAA 01	TO	3587	300	137	133.9	147.6	146.7		145.2	147.6	149.8	150.4	aJ64
07S 40W 06ADB 01	TO	3722	343	152	149.4	169.3	170.6	171.1	169.0	169.9	168.9	168.9	aJ64
07S 40W 29BBA 01	TO	3708	288	121	121.5	143.2	143.1	143.8	144.2	143.5	145.0	144.9	aJ49
07S 40W 35BBB 01	TO	3650	255	102	103.0	128.1	128.7	128.7	128.1	128.0			aJ65
07S 40W 36BAB 01	TO	3643	321	105	109.9	134.2	137.0	136.6	134.7	133.7	136.2	134.8	aJ64
07S 41W 07BCB 01	TO	3840	300	180	174.4	202.3	202.2	207.2	201.3	200.9	203.9	202.6	aJ49
07S 41W 28DBB 01	TO	3774	280	111	111.4	131.6	135.5	135.9	134.4	132.1	133.6	134.1	aJ64
07S 42W 07DAA 01	TO	3903	320	163	164.4	190.1	189.9	192.6	190.0	189.3	189.6	191.6	aJ49
07S 42W 17CCC 01	TO	3864	263	119	117.9	142.9	143.7	145.7	146.6	144.7	145.4	145.9	aJ66
07S 42W 27AAB 01	TO	3862	321	142	140.6	169.1	169.5	170.7	170.2	170.5	172.0	171.3	aJ64
08S 37W 03ADB 01	TO	3476	273	126	143.5	159.8	164.6		160.7		160.8	167.7	aJ64
08S 37W 21CCC 01	TO	3496	230	120	121.1	142.3	143.5	142.9	141.6	141.5	144.1	143.2	aJ64
08S 37W 32ABB 01	TO	3468	216	83	80.0	98.1	98.2	98.6	97.6	96.7	98.0	98.5	aJ64
08S 38W 17CDD 01	TO	3603	293	143	142.0	163.9	165.1	166.1	166.0	166.4	167.6	168.4	aJ64
08S 38W 24AAB 01	TO	3513	260	110	111.0	122.0	123.0	123.7		122.7	123.2	123.5	aJ64
08S 39W 15CCC 01	TO	3642	272	127	135.0	166.1	166.6	167.5	166.7	166.3	166.3	166.5	aJ49
08S 40W 12DBA 01	TO	3670	290	120	133.0	168.7	170.0	170.0	168.9	166.2	166.6	166.1	aJ65
08S 40W 17CDB 01	TO	3727	277	102	108.0	136.3	137.5	140.7	137.7	135.8	140.2	138.3	aJ64
08S 40W 25AAC 01	TO	3701	290	133	158.0	183.3	183.8	183.8	182.9	182.3	182.8	183.2	aJ67
08S 41W 17CBA 01	TO	3843	300	129	129.0	151.6	150.9	151.7	153.8	151.6	151.9	153.6	aJ65
08S 41W 25BBC 01	TO	3754	264	94	96.0	122.2	123.0	123.8	124.2	124.7	124.8	125.2	aJ65
08S 42W 15DDB 01	TO	3859	274	98	99.0	128.4	128.1	130.7	128.6	129.1	129.9	130.5	aJ64
08S 42W 31DCD 01	TO	3872	207	50	58.0	82.9	83.7	84.3	85.0	85.5	86.2	87.1	aJ64
09S 37W 07DDB 01		3496				93.9	95.8			92.7	93.8	93.9	aJ85
09S 38W 13BCC 01	TO	3510				81.4	82.4	82.0	81.6	80.6	82.9	80.7	aJ76
09S 39W 01DBA 01		3619				142.0	143.7		145.4	145.4	146.8	147.6	aJ85
09S 39W 02BAB 01	TO	3646	246	133		175.4	176.7		175.8		176.5	181.8	aJ78

TABLE 1. SELECTED HYDROLOGIC DATA, SHERMAN COUNTY (cont'd)

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
09S 39W 10CCB 01		3661				151.7	154.0		154.0	150.8	154.6	152.3	aJ85
09S 39W 19CCC 01	TO	3695	245	105		139.4	140.5	140.4	140.7	139.4	141.3	140.8	aJ72
09S 40W 13CDC 01	TO	3722	260	123	125.0	161.9	164.1	164.0	162.6	162.5	164.2	164.3	aJ64
09S 40W 29BBB 01	TO	3782	246	122	119.0	162.5	163.4	163.0	163.7	163.6	165.3	166.3	aJ64
09S 41W 05DCC 01	TO	3860	265	128	136.0	173.1	175.5	176.6		171.0	170.1	167.8	aJ64
09S 41W 14BBC 01		3835		129		181.5	182.2	181.9	182.7	184.1	185.5	187.0	aJ69
09S 41W 34BAB 01	TO	3841	290	111	114.0	152.1	153.5		157.8	153.5	154.8	155.3	aJ64
09S 42W 08AAA 01	TO	3943	271	120	131.0	158.4		160.0	161.1	161.3	162.4	162.4	aJ64
09S 42W 14AAA 01	TO	3901	291	116	131.0	165.1	166.1	166.6	166.8	166.9	169.9	170.5	aJ64
09S 42W 35ABB 01	TO	3916	268	102	103.0	146.2	146.2		146.3	146.5	147.1	149.5	aJ65
*10S 37W 23ABB 01	TO	3421	289	171	174.0	200.7	204.1	203.0	204.7		202.1	203.7	aJ67
10S 40W 10ADC 01	QA,TO	3624	68	12	16.0	18.1	18.8	18.8	19.0	16.6	17.1	17.8	aJ64
10S 41W 15CAD 01	QA,TO	3762	117	12	12.0	27.1	28.0	27.8	28.3	26.1	27.8	29.6	aJ64
10S 42W 20ABB 01		3968				117.0	120.3	121.0	119.8	120.9		122.3	aJ84
10S 42W 21BBB 01	TO	3963	223	73	86.0	116.0		116.0			118.4	119.1	aJ64
10S 42W 24BAB 01	TO	3903	204	73	84.0	103.9	105.0	106.6	104.3	107.1	105.5	112.3	aJ64

SHERMAN COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, SHERMAN COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	
06S 37W 07BBA 01	QA	7.6	-3	-1.5	0.4	-0.1	-0.1	129	126	-2
06S 37W 16CDD 01	TO	172.3	-15	-8.5	-0.9	-0.3	-0.3	107	92	-14
06S 37W 19ABB 01	TO	159.7	-10	-4.3	0.4	-0.2	-0.1	159	149	-6
06S 39W 09DDD 01	TO	151.6	-7	-8.9	-0.2	-0.2	-0.3	185	178	-4
06S 40W 10AAC 01	TO	164.8	-14	-13.6	-0.5	-0.3	-0.5	190	176	-7
06S 40W 13CBC 01		150.4			-0.1					
06S 40W 30DCC 01	TO	170.6	-12	-17.0	-0.2	-0.3	-0.6	167	155	-7
06S 41W 19DBD 01	TO	189.9	-28	-20.4	0.0	-0.6	-0.7	163	135	-17
06S 41W 27DBD 01	TO									
06S 42W 02AAA 01	TO	200.1	-21	-18.4	0.2	-0.5	-0.6	98	77	-21
06S 42W 08CBB 01	TO	212.8	-30	-11.5	-0.2	-0.7	-0.4	121	91	-25
06S 42W 22DCC 01	TO	200.7	-24	-17.6	-1.4	-0.5	-0.6	138	114	-17
06S 42W 30ADA 01	TO	208.1	-32	-24.5	-0.6	-0.7	-0.8	133	101	-24
07S 37W 04BBC 01	TO	138.6	-17		0.2	-0.4		148	131	-11
07S 37W 05CCB 01	TO	142.1	-18	-12.2	-0.6	-0.4	-0.4	170	152	-11
07S 38W 28DAA 01		152.1			-3.6					
07S 39W 01DCD 01		135.5			-0.4					
07S 39W 09BBB 01	TO	117.8	-12	-13.0	0.2	-0.3	-0.4	189	177	-6
07S 39W 24BAA 01	TO	150.4	-13	-16.5	-0.6	-0.3	-0.6	163	150	-8
07S 40W 06ADB 01	TO	168.9	-17	-19.5	0.0	-0.4	-0.7	191	174	-9
07S 40W 29BBA 01	TO	144.9	-24	-23.4	0.1	-0.5	-0.8	167	143	-14
07S 40W 35BBB 01	TO									
07S 40W 36BAB 01	TO	134.8	-30	-24.9	1.4	-0.7	-0.8	216	186	-14
07S 41W 07BCB 01	TO	202.6	-23	-28.2	1.3	-0.5	-0.9	120	97	-19
07S 41W 28DBB 01	TO	134.1	-23	-22.7	-0.5	-0.5	-0.8	169	146	-14
07S 42W 07DAA 01	TO	191.6	-29	-27.2	-2.0	-0.6	-0.9	157	128	-18
07S 42W 17CCC 01	TO	145.9	-27	-28.0	-0.5	-0.6	-0.9	144	117	-19
07S 42W 27AAB 01	TO	171.3	-29	-30.7	0.7	-0.6	-1.0	179	150	-16
08S 37W 03ADB 01	TO	167.7	-42	-24.2	-6.9	-0.9	-0.8	147	105	-29
08S 37W 21CCC 01	TO	143.2	-23	-22.1	0.9	-0.5	-0.7	110	87	-21
08S 37W 32ABB 01	TO	98.5	-16	-18.5	-0.5	-0.3	-0.6	133	118	-11
08S 38W 17CDD 01	TO	168.4	-25	-26.4	-0.8	-0.5	-0.9	150	125	-17
08S 38W 24AAB 01	TO	123.5	-14	-12.5	-0.3	-0.3	-0.4	150	137	-9
08S 39W 15CCC 01	TO	166.5	-40	-31.5	-0.2	-0.9	-1.1	145	106	-27
08S 40W 12DBA 01	TO	166.1	-46	-33.1	0.5	-1.0	-1.1	170	124	-27
08S 40W 17CDB 01	TO	138.3	-36	-30.3	1.9	-0.8	-1.0	175	139	-21
08S 40W 25AAC 01	TO	183.2	-50	-25.2	-0.4	-1.1	-0.8	157	107	-32
08S 41W 17CBA 01	TO	153.6	-25	-24.6	-1.7	-0.5	-0.8	171	146	-15
08S 41W 25BBC 01	TO	125.2	-31	-29.2	-0.4	-0.7	-1.0	170	139	-18
08S 42W 15DDB 01	TO	130.5	-33	-31.5	-0.6	-0.7	-1.1	176	144	-18
08S 42W 31DCD 01	TO	87.1	-37	-29.1	-0.9	-0.8	-1.0	157	120	-24
09S 37W 07DDB 01		93.9			-0.1					
09S 38W 13BCC 01	TO	80.7			2.2					
09S 39W 01DBA 01		147.6			-0.8					
09S 39W 02BAB 01	TO	181.8	-49		-5.3	-1.1		113	64	-43
09S 39W 10CCB 01		152.3			2.3					
09S 39W 19CCC 01	TO	140.8	-36		0.5	-0.8		140	104	-26
09S 40W 13CDC 01	TO	164.3	-41	-39.3	-0.1	-0.9	-1.3	137	96	-30
09S 40W 29BBB 01	TO	166.3	-44	-47.3	-1.0	-1.0	-1.6	124	80	-35
09S 41W 05DCC 01	TO	167.8	-40	-31.8	2.3	-0.9	-1.1	137	97	-29

TABLE 2. DERIVED HYDROLOGIC DATA, SHERMAN COUNTY (cont'd)

Well number	Geologic unit	Depth to water (feet) 1996	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
09S 41W 14BBC 01		187.0	-58		-1.5	-1.3				
09S 41W 34BAB 01	TO	155.3	-44	-41.3	-0.5	-1.0	-1.4	179	135	-25
09S 42W 08AAA 01	TO	162.4	-42	-31.4	0.0	-0.9	-1.0	151	109	-28
09S 42W 14AAA 01	TO	170.5	-55	-39.5	-0.6	-1.2	-1.3	175	121	-31
09S 42W 35ABB 01	TO	149.5	-48	-46.5	-2.4	-1.0	-1.6	166	119	-28
*10S 37W 23ABB 01	TO	203.7	-33	-29.7	-1.6	-0.7	-1.0	118	85	-28
10S 40W 10ADC 01	QA,TO	17.8	-6	-1.8	-0.7	-0.1	-0.1	56	50	-11
10S 41W 15CAD 01	QA,TO	29.6	-18	-17.6	-1.8	-0.4	-0.6	105	87	-17
10S 42W 20ABB 01		122.3								
10S 42W 21BBB 01	TO	119.1	-46	-33.1	-0.7	-1.0	-1.1	150	104	-31
10S 42W 24BAB 01	TO	112.3	-39	-28.3	-6.8	-0.8	-0.9	131	92	-30

STAFFORD COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, STAFFORD COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
21S 11W 07BBB 01		1808	193	20			21.6	24.8	21.2	10.1	16.2	14.6	aJ84
21S 12W 10CDD 01	QU	1845	200	24	4.9		27.8	28.7	25.2	12.3			aJ73
21S 13W 05CBD 01	QU	1893				28.9	30.7	33.6	28.4	23.9	27.0	26.5	aJ56
21S 13W 27DDD 02	QU	1877	152	11	0.6	11.2	11.1	13.0	10.0	4.3	8.2	7.4	qJ63
21S 14W 22AAC 01	QU	1926	196	16	4.8	23.4	24.2	25.9	25.8	21.3	23.3	23.3	aJ73
21S 14W 32BAC 01	QU	1949	219	22	16.2	30.4	32.9	34.3	35.0	32.1	32.7	33.0	aJ73
22S 11W 07BBB 01	QU	1785	54	10	3.3	5.2	4.8	5.4	4.7	3.8	4.8	4.4	aJ73
22S 12W 05BBD 01	QU	1870	220	21	8.9	21.2	20.3	23.2	20.5	11.4	16.2	15.0	aJ73
22S 12W 30BBD 01	QU	1872	162	13	7.0	18.1	17.4	19.3	16.7	10.1	14.9	13.3	aJ66
22S 12W 36BBB 02	QU	1827	146		0.7		6.6	7.9	3.3	2.9	4.8	4.0	aJ73
22S 13W 05CBC 01	QU	1905	165	6	3.1	19.4	19.8	21.5	19.3	13.3	16.6		aJ73
22S 13W 12CAC 01	QU	1885	180	20	8.6	22.4	21.8	24.0	20.9	12.4	17.7	16.4	aJ70
22S 13W 29DAD 01	QU	1902	204	17	5.2	20.1	20.2	22.2	20.9	12.8	17.3	17.4	qJ61
22S 14W 14CCA 01	QU	1930	200	12	0.8	24.5	25.3	27.2	25.8	19.8	23.1	22.8	aJ72
22S 14W 35DDB 01	QU	1930	130	20	11.1	30.4	31.4	33.1	33.0	26.0	28.9	29.4	aJ73
23S 11W 02BBB 01	QU	1789	125		1.0	2.2	3.0	4.1	0.1	1.1	2.6	1.9	aJ74
23S 11W 22BCC 01	QU	1802	172	5	17.4	25.6	22.9	24.7	21.0	18.8	21.8	20.1	aJ70
23S 11W 36CCA 01		1803				19.4	20.4	22.6	19.9	13.8	18.2	16.3	aJ88
23S 12W 07DBD 01	QU	1859	174	1	0.5		8.9		9.4	4.6	9.6	8.3	aJ66
23S 12W 22BCC 01	QU	1853	163	4	5.4	15.3	15.6	17.8	14.3	9.3	13.7	11.9	aJ73
23S 12W 36BBC 01	QU	1849	154	8	11.7	16.4	17.6	20.6	15.5	11.6	15.1	13.8	aJ70
23S 13W 08CCB 01	QU	1895	120	8	4.4	14.3	14.8	16.6	15.7	9.8	13.4	13.3	qJ72
23S 13W 30CBB 01	QU	1906	86	11	7.9		14.4	15.5	14.2	11.8	13.6	13.5	aJ73
23S 13W 35CCA 01	QU	1897	150	19	7.3	21.2	21.8	23.6	22.6	16.0	19.2	17.8	aJ68
23S 14W 15ADD 01	QU	1927	76	7	3.3	12.7	13.5	15.1	14.6	10.3	13.2	12.3	aJ70
23S 14W 30BBB 01	QU	1988	168	24	34.4	43.8	44.8	46.2	45.2	42.0	43.3	43.2	qJ74
24S 11W 17DDB 01	QU	1833	133	23	22.8	22.2	23.2	25.3	22.9	19.4	22.3	21.9	aJ73
24S 12W 04CDB 01		1875				22.5	23.8	26.9	23.3	14.9	20.8	18.9	aJ88
24S 12W 17CAB 01	QU	1893	144	22	16.8	27.9	29.9	33.0	29.6	20.6	27.1	25.2	aJ73
24S 12W 34ABC 01	QU	1880	150	29	20.0	21.4	22.9	25.6	23.9	16.8	20.7	20.9	aJ73
24S 13W 16ACA 01	QU	1915	137	18	8.6	22.6	23.4	25.2	24.8	18.9	21.4	20.4	aJ68
24S 13W 20CDD 01		1932				23.6	24.3	25.7	25.7	21.1	23.2	22.2	qJ86
24S 13W 36DDD 01		1907	155	21		21.7	23.3	25.5	23.9	16.1	21.4	21.2	aJ79
24S 14W 17AAC 01	QU	1982	132	27	21.7	33.3	34.4	36.8	34.9	32.4	34.7	34.2	aJ67
24S 14W 31BBD 01	QU	1998	158	23	7.8	22.7	23.8	25.0	24.3	18.4	22.8	19.5	aJ65
24S 15W 10BAB 01	QU	2024	114	24	14.6	31.3	32.4	33.6	33.3	30.0	31.8	30.7	aJ70
24S 15W 32DBC 01	QU	2044	184	21	9.9	27.9	29.5	31.1	29.9	24.9	27.8	24.3	aJ73
25S 11W 02ACB 01	QU	1770	90	10	10.3	11.4	11.8	11.9	11.0	10.9	11.9	11.5	aJ73
25S 11W 23DDD 01	QU	1796	156	13	12.9	14.9	16.0	17.5	17.0	12.8	17.0	16.0	qJ74
25S 12W 11AAA 01		1846	81	16		14.0	15.0	18.3	14.8	11.2	17.0	16.6	aJ84
25S 12W 16DCA 01		1868				12.2	13.5	16.3	13.5	9.9	15.1	14.7	aJ88
25S 12W 24DDB 01	QU	1840	145	17	10.2	12.1	12.8	14.7	13.4	11.0	14.3	13.9	aJ73
25S 13W 16AAC 01		1940	142	22		27.6	29.7	31.9	30.2	21.8	29.5	29.7	qJ77
25S 13W 31DDA 01		1973	221	38		23.4	25.9		25.5	18.6	26.1	25.0	aJ84
25S 13W 36DCC 01		1902	177	22		12.7	14.7	16.1	14.8	11.4	16.1	15.2	aJ84

TABLE 1. SELECTED HYDROLOGIC DATA, STAFFORD COUNTY (cont'd)

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1944	1974	1990	1991	1992	1993	1994	1995	1996	
25S 14W 04AAD 01	QU	1969	149	24	9.2	14.5	15.4	16.1	14.6	12.0	14.7	13.5	aJ73
25S 14W 21DDB 01		1980				14.8	16.1	17.3	15.3	11.8	15.9	14.6	aJ84
25S 14W 30CDB 01	QU	2004	214	14	7.2	16.5	17.8	18.4	16.5	13.6	16.9	16.6	aJ59
25S 15W 11BCB 01	QU	2020	174	16	11.7	20.9	21.4	20.8	21.8	17.8	18.2	12.3	aJ73
25S 15W 29BBD 01	QU	2034	184	16	4.3	12.1	13.4	14.0	11.0	9.1	11.9	10.4	aJ73

STAFFORD COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, STAFFORD COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-96	1974-96	1995-96	1944-96	1974-96	1944	1996	1944-96
21S 11W 07BBB 01		14.6	5		1.6	0.1		173	178	3
21S 12W 10CDD 01	QU									
21S 13W 05CBD 01	QU	26.5			0.5					
21S 13W 27DDD 02	QU	7.4	4	-6.8	0.8	0.1	-0.3	141	145	3
21S 14W 22AAC 01	QU	23.3	-7	-18.5	0.0	-0.1	-0.8	180	173	-4
21S 14W 32BAC 01	QU	33.0	-11	-16.8	-0.3	-0.2	-0.8	197	186	-6
22S 11W 07BBB 01	QU	4.4	6	-1.1	0.4	0.1	-0.1	44	50	14
22S 12W 05BBD 01	QU	15.0	6	-6.1	1.2	0.1	-0.3	199	205	3
22S 12W 30BBD 01	QU	13.3	0	-6.3	1.6	0.0	-0.3	149	149	0
22S 12W 36BBB 02	QU	4.0		-3.3	0.8		-0.2		142	
22S 13W 05CBC 01	QU									
22S 13W 12CAC 01	QU	16.4	4	-7.8	1.3	0.1	-0.4	160	164	3
22S 13W 29DAD 01	QU	17.4	0	-12.2	-0.1	0.0	-0.6	187	187	0
22S 14W 14CCA 01	QU	22.8	-11	-22.0	0.3	-0.2	-1.0	188	177	-6
22S 14W 35DDB 01	QU	29.4	-9	-18.3	-0.5	-0.2	-0.8	110	101	-8
23S 11W 02BBB 01	QU	1.9		-0.9	0.7		0.0		123	
23S 11W 22BCC 01	QU	20.1	-15	-2.7	1.7	-0.3	-0.1	167	152	-9
23S 11W 36CCA 01		16.3			1.9					
23S 12W 07DBD 01	QU	8.3	-7	-7.8	1.3	-0.1	-0.4	173	166	-4
23S 12W 22BCC 01	QU	11.9	-8	-6.5	1.8	-0.2	-0.3	159	151	-5
23S 12W 36BBC 01	QU	13.8	-6	-2.1	1.3	-0.1	-0.1	146	140	-4
23S 13W 08CCB 01	QU	13.3	-5	-8.9	0.1	-0.1	-0.4	112	107	-4
23S 13W 30CBB 01	QU	13.5	-3	-5.6	0.1	-0.1	-0.3	75	73	-3
23S 13W 35CCA 01	QU	17.8	1	-10.5	1.4	0.0	-0.5	131	132	1
23S 14W 15ADD 01	QU	12.3	-5	-9.0	0.9	-0.1	-0.4	69	64	-7
23S 14W 30BBB 01	QU	43.2	-19	-8.8	0.1	-0.4	-0.4	144	125	-13
24S 11W 17DDB 01	QU	21.9	1	0.9	0.4	0.0	0.0	110	111	1
24S 12W 04CDB 01		18.9			1.9					
24S 12W 17CAB 01	QU	25.2	-3	-8.4	1.9	-0.1	-0.4	122	119	-2
24S 12W 34ABC 01	QU	20.9	8	-0.9	-0.2	0.2	0.0	121	129	7
24S 13W 16ACA 01	QU	20.4	-2	-11.8	1.0	0.0	-0.5	119	117	-2
24S 13W 20CDD 01		22.2			1.0					
24S 13W 36DDD 01		21.2	0		0.2	0.0		134	134	0
24S 14W 17AAC 01	QU	34.2	-7	-12.5	0.5	-0.1	-0.6	105	98	-7
24S 14W 31BBD 01	QU	19.5	4	-11.7	3.3	0.1	-0.5	135	139	3
24S 15W 10BAB 01	QU	30.7	-7	-16.1	1.1	-0.1	-0.7	90	83	-8
24S 15W 32DBC 01	QU	24.3	-3	-14.4	3.5	-0.1	-0.7	163	160	-2
25S 11W 02ACB 01	QU	11.5	-2	-1.2	0.4	0.0	-0.1	80	79	-1
25S 11W 23DDD 01	QU	16.0	-3	-3.1	1.0	-0.1	-0.1	143	140	-2
25S 12W 11AAA 01		16.6	-1		0.4	0.0		65	64	-2
25S 12W 16DCA 01		14.7			0.4					
25S 12W 24DDB 01	QU	13.9	3	-3.7	0.4	0.1	-0.2	128	131	2
25S 13W 16AAC 01		29.7	-8		-0.2	-0.2		120	112	-7
25S 13W 31DDA 01		25.0	13		1.1	0.3		183	196	7
25S 13W 36DCC 01		15.2	7		0.9	0.1		155	162	5
25S 14W 04AAD 01	QU	13.5	11	-4.3	1.2	0.2	-0.2	125	136	9
25S 14W 21DDB 01		14.6			1.3					
25S 14W 30CDB 01	QU	16.6	-3	-9.4	0.3	-0.1	-0.4	200	197	-2
25S 15W 11BCB 01	QU	12.3	4	-0.6	5.9	0.1	0.0	158	162	3
25S 15W 29BBD 01	QU	10.4	6	-6.1	1.5	0.1	-0.3	168	174	4

STANTON COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, STANTON COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1966	1990	1991	1992	1993	1994	1995	1996	
27S 39W 27BBA 01	QU,TO	3175	395	68	102.2	211.0	205.0	200.7	209.1	205.5	215.9	230.2	qJ58
27S 40W 07ABB 01		3273	228	63		167.9	131.2	138.3	138.6			191.6	aJ85
27S 40W 16CCC 01		3259				122.0	137.7	133.5	138.5	140.2			aJ85
27S 40W 25CBC 01	QU,TO	3228	328	73	85.8	175.4	179.6	189.7	187.5	185.4	189.5	199.2	aJ59
27S 41W 35CCC 01	QU,TO,KJ	3340			135.0	184.0	186.7	187.1	185.9	188.1	189.7	192.8	aJ59
27S 42W 17CCC 01	QU,TO,KJ	3496				230.5	226.7	236.3	236.7	238.2	240.9	248.2	aJ86
28S 39W 14BBC 01		3158	408	53	97.1	152.2		155.5	156.7	158.3	162.1	163.3	qJ59
28S 39W 16CCC 01		3171	391	49		186.4	182.3	185.5	182.7	183.6	190.6	199.2	aJ84
28S 39W 33ACC 01	QU,TO	3201	428	82	120.1	182.8	190.2	191.2	202.3	203.9	209.9	199.4	aJ59
28S 39W 36ABB 01	QU,TO	3145	412	57	100.3	198.4	200.6	203.5	205.6	205.6			qJ59
28S 40W 04CCC 01	QU,TO	3289				223.3	225.4	230.7	233.6	235.1	232.6	250.2	aJ59
28S 40W 12DDD 02		3225	385	83	107.4	218.4	219.2	219.0	217.9	218.9	225.3	228.0	aJ63
28S 40W 32CCB 01		3320	446	158	172.5	256.1	252.6	255.9		257.6	253.2	254.7	aJ59
28S 41W 02CCC 01	QU,TO	3343	343	141		238.8	238.6	236.8	236.5	236.1	234.3	236.9	aJ85
28S 42W 08CCC 01		3539	300	199	233.9	274.5			270.6	268.9			aJ59
28S 42W 20BCC 01		3553				251.6	251.5	251.3	251.0	250.9	251.4	253.1	aJ84
28S 42W 32BBB 01	KJ	3540			215.9	235.5			209.4	209.3	209.5	210.4	aJ59
29S 39W 21DBD 01	QU,TO	3183	413	62	82.6	192.7	196.1	200.8	203.5	204.1	210.3	215.2	aJ59
29S 39W 24DDA 01	QU,TO	3154	449	62	80.0	181.0	185.3	187.0	189.0	194.7	200.2	203.6	aJ48
29S 40W 28ABB 01		3282	422	132		241.6	247.5	261.7	257.1	278.6		268.6	aJ84
29S 41W 13ACC 01	QU,TO	3344	400	176	192.6	275.9	282.5			288.8	292.6	297.7	aJ59
29S 42W 08CDC 01	KJ	3517			186.9	194.7	190.6	191.4	187.8	193.5	188.5	190.7	aJ59
29S 43W 33CDB 01	KJ	3654			119.8	116.4	114.7	111.8	115.1	115.5	121.2	126.3	aJ59
30S 39W 23BBB 01	QU,TO	3179	404	72	89.5	161.8	162.5	164.7	163.0	162.3	160.8	160.9	aJ58
30S 40W 12BBB 01		3274	434	138		258.7	261.0	257.6	257.8	262.5	260.9	268.9	aJ84
30S 40W 24CDC 01	QU,TO,KJ	3237			115.3	173.9		177.8	168.0	183.3		183.4	aJ59
30S 40W 33CCB 01	KJ	3309			164.3	187.5	189.3	190.7	190.2	190.3	191.1	193.0	aJ59
30S 41W 13CCC 02		3347				204.8	212.3	203.6	199.6	200.9	199.7	198.5	aJ77
30S 41W 23DDB 01		3365	205	178		191.0	196.0	198.3	192.8	192.8	191.6	197.4	aJ84
30S 42W 12ACC 01	KJ	3457			188.0	192.0	192.7	194.2	194.3	193.8	193.1	193.6	aJ59
30S 42W 16BDB 01	KJ	3524			187.8	173.8	173.9	173.8	174.4	176.8	172.1	172.5	aJ59
30S 43W 34BBB 01	QU,TO	3622	103	42	66.3	79.3	81.6	89.8	93.8	94.1			qJ58
30S 43W 36BB 01	QU,TO,KJ	3595			71.6	83.0	83.6	84.1	85.0	85.3		86.3	aJ59

STANTON COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, STANTON COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1966-96	1995-96	1940-96	1966-96	1940	1996	1940-96
		1996								
27S 39W 27BBA 01	QU,TO	230.2	-162	-128.0	-14.3	-2.9	-4.3	327	165	-50
27S 40W 07ABB 01		191.6	-129			-2.3		165	36	-78
27S 40W 16CCC 01										
27S 40W 25CBC 01	QU,TO	199.2	-126	-113.4	-9.7	-2.3	-3.8	255	129	-49
27S 41W 35CCC 01		192.8		-57.8	-3.1		-1.9			
27S 42W 17CCC 01	QU,TO,KJ	248.2			-7.3					
28S 39W 14BBC 01		163.3	-110	-66.2	-1.2	-2.0	-2.2	355	245	-31
28S 39W 16CCC 01		199.2	-150		-8.6	-2.7		342	192	-44
28S 39W 33ACC 01	QU,TO	199.4	-117	-79.3	10.5	-2.1	-2.6	346	229	-34
28S 39W 36ABB 01										
28S 40W 04CCC 01	QU,TO	250.2			-17.6					
28S 40W 12DDD 02		228.0	-145	-120.6	-2.7	-2.6	-4.0	302	157	-48
28S 40W 32CCB 01		254.7	-97	-82.2	-1.5	-1.7	-2.7	288	191	-34
28S 41W 02CCC 01	QU,TO	236.9	-96		-2.6	-1.7		202	106	-48
28S 42W 08CCC 01										
28S 42W 20BCC 01	KJ	253.1			-1.7					
28S 42W 32BBB 01		210.4		5.5	-0.9		0.2			
29S 39W 21DBD 01		215.2	-153	-132.6	-4.9	-2.7	-4.4	351	198	-44
29S 39W 24DDA 01	QU,TO	203.6	-142	-123.6	-3.4	-2.5	-4.1	387	245	-37
29S 40W 28ABB 01		268.6	-137			-2.4		290	153	-47
29S 41W 13ACC 01	QU,TO	297.7	-122	-105.1	-5.1	-2.2	-3.5	224	102	-54
29S 42W 08CDC 01		190.7		-3.8	-2.2		-0.1			
29S 43W 33CDB 01		126.3		-6.5	-5.1		-0.2			
30S 39W 23BBB 01	QU,TO	160.9	-89	-71.4	-0.1	-1.6	-2.4	332	243	-27
30S 40W 12BBB 01		268.9	-131		-8.0	-2.3		296	165	-44
30S 40W 24CDC 01	QU,TO,KJ	183.4		-68.1			-2.3			
30S 40W 33CCB 01		193.0		-28.7	-1.9		-1.0			
30S 41W 13CCC 02		198.5			1.2					
30S 41W 23DDB 01	KJ	197.4	-19		-5.8	-0.3		27	8	-70
30S 42W 12ACC 01		193.6		-5.6	-0.5		-0.2			
30S 42W 16BDB 01	QU,TO	172.5		15.3	-0.4		0.5			
30S 43W 34BBB 01										
30S 43W 36BB 01		86.3		-14.7			-0.5			

STEVENS COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, STEVENS COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1940	1970	1990	1991	1992	1993	1994	1995	1996	
31S 35W 15BAA 01	QU,TO	3009	449	224	236.4	291.3	291.0	295.3	298.5	298.9	300.8		aJ59
31S 36W 02CDD 01	QU,TO	3019	365	139	155.8	177.9	176.9	180.6	182.2	183.5		194.1	qJ58
31S 37W 22BCC 01	QU,TO	3096	440	106	128.3	227.9	229.0	236.8	241.5	242.0	247.1	252.8	qJ56
31S 37W 30DDB 01		3138	498	123		224.8	226.0	229.4	232.7	235.2	241.4	247.2	aJ84
31S 39W 23BBB 01	QU,TO	3199	259	98	116.9	178.6		177.0	179.0	181.5	182.6	185.3	aJ58
32S 35W 08DDD 01	QU,TO	3012	502	130		171.7	171.9	177.0	176.9	180.1	183.7	186.8	aJ70
32S 36W 21AAC 01		3067	467	125		195.8	191.8	195.5	193.9	195.8	186.3	192.5	aJ84
32S 37W 10DCC 01	QU,TO	3120	540	127	136.4	174.1	177.0	175.8	176.5	175.9		181.2	aJ58
32S 37W 26BAC 01		3118		124		123.4	126.0	123.7	122.2	123.7	124.5	127.7	aJ83
32S 38W 11ADA 01	QU,TO	3159	529	118	114.1	135.6	136.5	137.5	138.8	139.9	141.3	142.8	aJ65
32S 38W 23BDD 01	QU,TO	3175	505	116	106.2	141.0			149.2	149.8			aJ65
32S 39W 02BBB 01	QU,TO	3216	296	96	132.9	204.3	198.1	191.8	192.8	199.6	203.3	198.1	aJ58
32S 39W 14DDD 01		3202				68.3	77.6	78.5	80.8	74.7	77.0	80.9	aJ84
33S 35W 23CBB 01		2968		104		136.8	132.9	143.6	141.8	145.3	149.9	157.5	aJ81
33S 36W 26DDD 01	QU,TO	3032	422	121	118.7	148.4	147.8	165.2	165.5	173.0	185.4	205.5	aJ42
33S 37W 17CCC 01	QU,TO	3124	554	83	89.3	105.2	109.3	109.0	112.3	114.3	116.9	121.1	aJ64
33S 37W 23CDB 01	QU,TO	3092	562	87	83.8	97.0	97.2	101.5	100.5	101.0	102.9	106.0	aJ64
33S 38W 06AAB 01	QU,TO	3203	378	93	94.6		94.5	94.2	93.8	95.0	95.4	96.4	aJ59
33S 38W 10ACC 01	QU,TO	3166	466	101	107.7	145.9	145.8	150.2	152.0	153.6	156.4	159.9	aJ58
34S 35W 26ACC 01		2977		112		131.2	134.4	137.6	135.2	137.2	141.3	147.8	aJ81
34S 36W 10CAC 01		3065		135		159.1	163.0	169.2	170.6	170.8	173.5	177.5	aJ81
34S 36W 21DBD 01		3079		144		163.8	165.6	170.2	174.0	178.4	181.3	185.8	aJ84
34S 37W 08DAC 01	QU,TO	3162	642	133	113.0	135.6	135.0	137.3	138.8	140.4	142.6	144.7	aJ64
34S 37W 29BBD 01		3170	550	138		150.7	151.4	153.4	155.6	157.8		162.6	aJ84
34S 37W 35AAD 01		3111	666	129		124.7	125.4	129.4	133.0	131.0	138.6	141.7	aJ84
34S 38W 34CAA 01		3194				163.9		169.0	171.7	174.1		180.1	aJ84
34S 39W 02CCA 01	QU,TO	3248	533	118	108.3	100.6	100.7	106.6	101.0	101.6	102.2	103.8	aJ64
34S 39W 15CAD 01	QU,TO	3280	510	141	141.7	138.1		138.1		139.3	140.5	142.0	aJ65
35S 35W 15BCC 01		2978	618	107		112.6	113.3	113.6	118.1	120.5	123.4	126.9	aJ84
35S 36W 01AAA 01	QU,TO	3022	590	120		130.4	131.7	134.1	138.4	142.2	139.1	144.6	aJ70
35S 37W 16BCC 01		3138				135.9		139.4	141.4	143.3	145.1	150.1	aJ84
35S 39W 10CAD 01	QU,TO	3302	502	183	188.0	199.8	198.3	199.6	204.5	203.1	208.0	213.1	aJ67

STEVENS COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, STEVENS COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1940-96	1970-96	1995-96	1940-96	1970-96	1940	1996	1940-96
31S 35W 15BAA 01	QU,TO									
31S 36W 02CDD 01	QU,TO	194.1	-55	-38.3		-1.0	-1.5	226	171	-24
31S 37W 22BCC 01	QU,TO	252.8	-147	-124.5	-5.7	-2.6	-4.8	334	187	-44
31S 37W 30DDB 01		247.2	-124		-5.8	-2.2		375	251	-33
31S 39W 23BBB 01	QU,TO	185.3	-87	-68.4	-2.7	-1.6	-2.6	161	74	-54
32S 35W 08DDD 01	QU,TO	186.8	-57		-3.1	-1.0		372	315	-15
32S 36W 21AAC 01		192.5	-68		-6.2	-1.2		342	275	-20
32S 37W 10DCC 01	QU,TO	181.2	-54	-44.8		-1.0	-1.7	413	359	-13
32S 37W 26BAC 01		127.7	-4		-3.2	-0.1				
32S 38W 11ADA 01	QU,TO	142.8	-25	-28.7	-1.5	-0.4	-1.1	411	386	-6
32S 38W 23BDD 01	QU,TO									
32S 39W 02BBB 01	QU,TO	198.1	-102	-65.2	5.2	-1.8	-2.5	200	98	-51
32S 39W 14DDD 01		80.9			-3.9					
33S 35W 23CBB 01		157.5	-54		-7.6	-1.0				
33S 36W 26DDD 01	QU,TO	205.5	-85	-86.8	-20.1	-1.5	-3.3	301	217	-28
33S 37W 17CCC 01	QU,TO	121.1	-38	-31.8	-4.2	-0.7	-1.2	471	433	-8
33S 37W 23CDB 01	QU,TO	106.0	-19	-22.2	-3.1	-0.3	-0.9	475	456	-4
33S 38W 06AAB 01	QU,TO	96.4	-3	-1.8	-1.0	-0.1	-0.1	285	282	-1
33S 38W 10ACC 01	QU,TO	159.9	-59	-52.2	-3.5	-1.1	-2.0	365	306	-16
34S 35W 26ACC 01		147.8	-36		-6.5	-0.6				
34S 36W 10CAC 01		177.5	-43		-4.0	-0.8				
34S 36W 21DBD 01		185.8	-42		-4.5	-0.8				
34S 37W 08DAC 01	QU,TO	144.7	-12	-31.7	-2.1	-0.2	-1.2	509	497	-2
34S 37W 29BBB 01		162.6	-25			-0.4		412	387	-6
34S 37W 35AAD 01		141.7	-13		-3.1	-0.2		537	524	-2
34S 38W 34CAA 01		180.1								
34S 39W 02CCA 01	QU,TO	103.8	14	4.5	-1.6	0.3	0.2	415	429	3
34S 39W 15CAD 01	QU,TO	142.0	-1	-0.3	-1.5	0.0	0.0	369	368	0
35S 35W 15BCC 01		126.9	-20		-3.5	-0.4		511	491	-4
35S 36W 01AAA 01	QU,TO	144.6	-25		-5.5	-0.4		470	445	-5
35S 37W 16BCC 01		150.1			-5.0					
35S 39W 10CAD 01	QU,TO	213.1	-30	-25.1	-5.1	-0.5	-1.0	319	289	-9

SUMNER COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, SUMNER COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type	
				1950	1966	1990	1991	1992	1993	1994	1995	1996		
30S 04W 34BAA 01		1460				24.9		28.3	27.3				24.4	aU81
31S 04W 01DAC 01		1441				18.4		22.0	20.3				16.4	aU86
31S 04W 02BBB 01		1435				7.9		11.4	8.9				8.2	aU86

SUMNER COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, SUMNER COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
		1996								
30S 04W 34BAA 01		24.4								
31S 04W 01DAC 01		16.4								
31S 04W 02BBB 01		8.2								

THOMAS COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, THOMAS COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
*06S 31W 03ADB 01	TO	2957	192	109	115.0	115.6	115.1			115.0	115.1	113.9	aJ65
*06S 31W 33CCD 01	QA,TO	2916	131	18	10.0	34.5		29.7	34.7	37.7	34.7	36.1	aJ64
*06S 32W 12CBC 01	TO	3020	210	115	114.0	123.2	117.6	117.8	118.3	118.2	118.1	118.1	aJ42
06S 32W 29CDC 01	TO	3077	204	113	111.0	126.2	125.4	125.8	124.0	123.8		126.1	aJ64
*06S 33W 07BBB 01	TO	3177	234	137		141.3	141.4	141.5	141.8	139.5	140.1	144.1	aJ79
*06S 33W 23DDD 01	QA	2997	81	9		16.0	16.4	16.4	10.0	9.7	11.0	12.4	aJ78
06S 34W 01DDD 01	TO	3180				144.9	145.0	145.2	145.0	142.9			aJ71
06S 34W 11CDD 01	TO	3218	253	158	156.0	163.1	162.9	163.9	163.1	163.7	164.2		aJ67
*06S 34W 17CBC 01	TO	3261	258	151	151.0	160.9	161.2	167.6	166.8	159.7	159.8	160.5	aJ62
*06S 34W 22DCA 01		3207				131.4	131.8	132.5	130.5	131.7	131.1	130.5	aJ84
*06S 34W 31CDB 01						134.6	134.0	135.9	134.9	136.1	136.3	136.4	aJ85
*06S 35W 02CDD 01	TO	3245	250	117	127.0	129.3	130.7	131.1	130.5	130.5	131.0	132.3	aJ64
*06S 35W 26ACB 01	TO	3300	255	151	150.0	159.5	158.4	159.7	158.0	161.5	159.5	158.8	aJ65
*06S 36W 11ACC 01	TO	3360	280	168	161.0	170.7	171.4	171.4		172.0	173.6	174.8	aJ64
*06S 36W 30DCB 01	TO	3417	307	152	147.0	156.9	157.6	156.9		157.3	162.6	158.9	aJ64
*06S 36W 34DDB 01	TO	3334	246	99	94.0	103.6	104.1	104.5	103.9	104.4	109.8	106.4	aJ64
*07S 31W 01DCA 01	TO	2956	246	108	101.0		121.7	122.4	122.5	119.2	126.3	122.5	aJ64
*07S 32W 07ACA 01	TO	3056	146	68	64.0	81.5	82.2			81.8	82.1	81.0	aJ42
*07S 32W 33BCB 01		3082				120.7	120.9	121.7	119.7	121.0	122.1	126.1	aJ84
*07S 33W 07BDA 01	TO	3203	254	141	149.0	155.8	155.1	156.2		155.4	156.1	156.8	aJ64
07S 33W 35ADD 01	TO	3145	252	131	131.0	160.8	158.6		157.0	156.9			aJ65
*07S 34W 25AAA 01	TO	3167	240	106	106.0	115.0	119.0	121.7	120.5	114.3	115.2	115.5	aJ66
*07S 34W 26DBD 01	TO	3177	230	104	104.0	113.9	114.6	127.2		127.6	123.6	121.8	aJ64
*07S 35W 09CCC 01	TO	3315	265	124		132.6	132.8		131.8	127.6	127.3	132.7	aJ80
*07S 36W 17CCC 01	TO	3417	267	139	134.0	150.5	149.2	153.8	149.3	149.7	149.7	148.7	aJ62
*08S 31W 03CDD 01	TO	3003		110		144.1	146.2	148.3	146.2	145.8	146.1	147.8	aJ80
*08S 31W 20CDD 01	TO	3026	220	98	101.0	125.9	128.0	130.3	132.0	122.9	126.8	127.8	aJ64
*08S 32W 07BAA 01	TO	3102	272	98	99.0	133.3	129.5	129.8	128.3	127.3	127.6	128.1	aJ64
08S 32W 12DBC 01	TO	3057	217	110	108.0	123.9	124.8	125.9	126.9	126.0			aJ64
*08S 32W 27DAB 01	TO	3078	228	112	110.0	127.2	128.2	129.2	129.3	128.8	128.1	129.0	aJ42
08S 33W 34BBC 01	TO	3168	197	130	130.0	159.4	161.0	162.0	160.7	160.9		161.0	aJ64
08S 34W 01BAC 01	TO	3177	270	113	116.0	128.7	129.3	131.0	130.8	129.9	130.5	130.5	aJ47
*08S 34W 06CBC 01	TO	3266	227	130	135.0	140.0	139.1	145.5	137.9	138.4	141.5	139.8	aJ64
*08S 34W 23CBD 01	TO	3232	235	162	155.0	184.6	182.5	182.9		185.0	185.8	186.1	aJ64
*08S 34W 29CCC 01		3283				211.4	210.3			212.6	213.2	213.5	aJ84
*08S 35W 04CCC 01		3302				95.2	95.2	95.3	95.4	95.1	94.7	95.4	aJ84
*08S 36W 15CBB 01		3365				87.0	87.1	87.5	87.2	86.6	86.7	86.4	aJ84
*08S 36W 18ABA 02	TO	3428		120		131.9	131.3	132.1	132.5	131.5	132.1	131.3	aJ42
*08S 36W 31BCD 01		3369				46.7	50.8			38.0	38.1	37.5	aJ84
09S 31W 10BBB 01	TO	2999	177	85	83.0	95.3	93.0	94.3	93.5	93.0	92.7		aJ66
*09S 31W 17CCC 01		3016				92.8	93.5	94.1	92.6	89.5	90.1	90.5	aJ84
*09S 31W 36AAB 01	TO	3013	209	130	131.0	147.0	148.3	152.6	148.3	146.6	149.1	156.7	aJ64
*09S 32W 03AAA 01		3051				101.7	103.3	103.6	100.6	100.3	100.8	101.3	aJ84
*09S 32W 27BCD 01	TO	3076	207	97	98.0	125.1	126.1	126.6	125.4	122.0	124.4	124.2	aJ64
*09S 33W 35AAD 01	TO	3145	250	125	129.0	162.8	164.7	166.4		166.4	168.0	168.3	aJ64

TABLE 1. SELECTED HYDROLOGIC DATA, THOMAS COUNTY (cont'd)

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
*09S 34W 11CCC 01		3180				128.5	130.4	136.8	137.9	136.9	131.7	131.1	aJ85
*09S 34W 12ADA 01	TO	3199	269	134		167.8	170.0	190.0	170.7	171.0	171.0	171.3	aJ79
09S 34W 17ABA 01		3229				158.7	159.7	160.2	159.1	159.1	160.2		aJ84
*09S 35W 32DAA 01	TO	3361	235	182	188.0	205.2	189.4	211.2	209.6	194.0	186.0	193.7	aJ68
*10S 31W 26AAA 01	QA,TO	2891	31	11	5.0	12.6	13.2	14.5	11.0	10.3	10.9	10.5	aJ64
10S 31W 29AAB 01	TO	2997	190	82	82.0	91.6	91.8	92.7	92.3	91.8	91.0		aJ64
*10S 32W 11BAA 01	TO	3072	171	110	105.0	121.2	122.0	123.0	123.7	123.8	125.3	124.9	aJ65
*10S 32W 29DCB 01	TO	3064	184	78	80.0	97.1	103.4	98.6	105.2	96.5	97.1	101.3	aJ64
*10S 33W 06BBC 01	TO	3191	315	136		178.5	178.5	181.5		177.8	175.2	177.9	aJ71
*10S 33W 19CBD 01	TO	3161	166	100	99.0	106.1	106.5	107.3	105.9	102.8	101.7	107.0	aJ64
*10S 34W 12BCD 01	TO	3220	297	157	169.0	172.5	178.4	179.7		175.4	172.8	178.6	aJ64
*10S 34W 29BBC 01		3208				88.6	88.8	88.7		82.6	84.5	83.3	aJ84
*10S 35W 09ABB 01		3290				113.2	112.7	112.4	112.2	111.8	110.5	111.4	aJ84
*10S 36W 16CCC 01		3366				132.2	133.5	133.1	133.9	134.1	134.1	133.8	aJ84

THOMAS COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, THOMAS COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
*06S 31W 03ADB 01	TO	113.9	-5	1.1	1.2	-0.1	0.0	83	78	-6
*06S 31W 33CCD 01	QA,TO	36.1	-18	-26.1	-1.4	-0.4	-0.9	113	95	-16
*06S 32W 12CBC 01	TO	118.1	-3	-4.1	0.0	-0.1	-0.1	95	92	-3
*06S 32W 29CDC 01	TO	126.1	-13	-15.1		-0.3	-0.5	91	78	-14
*06S 33W 07BBB 01	TO	144.1	-7		-4.0	-0.2		97	90	-7
*06S 33W 23DDD 01	QA	12.4	-3		-1.4	-0.1		72	69	-4
*06S 34W 01DDD 01	TO									
*06S 34W 11CDD 01	TO									
*06S 34W 17CBC 01	TO	160.5	-10	-9.5	-0.7	-0.2	-0.3	107	98	-8
*06S 34W 22DCA 01		130.5			0.6					
*06S 34W 31CDB 01		136.4			-0.1					
*06S 35W 02CDD 01	TO	132.3	-15	-5.3	-1.3	-0.3	-0.2	133	118	-11
*06S 35W 26ACB 01	TO	158.8	-8	-8.8	0.7	-0.2	-0.3	104	96	-8
*06S 36W 11ACC 01	TO	174.8	-7	-13.8	-1.2	-0.2	-0.5	112	105	-6
*06S 36W 30DCB 01	TO	158.9	-7	-11.9	3.7	-0.2	-0.4	155	148	-5
*06S 36W 34DDB 01	TO	106.4	-7	-12.4	3.4	-0.2	-0.4	147	140	-5
*07S 31W 01DCA 01	TO	122.5	-15	-21.5	3.8	-0.3	-0.7	138	124	-10
*07S 32W 07ACA 01	TO	81.0	-13	-17.0	1.1	-0.3	-0.6	78	65	-17
*07S 32W 33BCB 01		126.1			-4.0					
*07S 33W 07BDA 01	TO	156.8	-16	-7.8	-0.7	-0.3	-0.3	113	97	-14
07S 33W 35ADD 01	TO									
*07S 34W 25AAA 01	TO	115.5	-10	-9.5	-0.3	-0.2	-0.3	134	125	-7
*07S 34W 26DBD 01	TO	121.8	-18	-17.8	1.8	-0.4	-0.6	126	108	-14
*07S 35W 09CCC 01	TO	132.7	-9		-5.4	-0.2		141	132	-6
*07S 36W 17CCC 01	TO	148.7	-10	-14.7	1.0	-0.2	-0.5	128	118	-8
*08S 31W 03CDD 01	TO	147.8	-38		-1.7	-0.8				
*08S 31W 20CDD 01	TO	127.8	-30	-26.8	-1.0	-0.7	-0.9	122	92	-25
*08S 32W 07BAA 01	TO	128.1	-30	-29.1	-0.5	-0.7	-1.0	174	144	-17
08S 32W 12DBC 01	TO									
*08S 32W 27DAB 01	TO	129.0	-17	-19.0	-0.9	-0.4	-0.6	116	99	-15
08S 33W 34BBC 01	TO	161.0	-31	-31.0		-0.7	-1.0	67	36	-46
08S 34W 01BAC 01	TO	130.5	-18	-14.5	0.0	-0.4	-0.5	157	140	-11
*08S 34W 06CBC 01	TO	139.8	-10	-4.8	1.7	-0.2	-0.2	97	87	-10
*08S 34W 23CBD 01	TO	186.1	-24	-31.1	-0.3	-0.5	-1.0	73	49	-33
*08S 34W 29CCC 01		213.5			-0.3					
*08S 35W 04CCC 01		95.4			-0.7					
*08S 36W 15CBB 01		86.4			0.3					
*08S 36W 18ABA 02	TO	131.3	-11		0.8	-0.2				
*08S 36W 31BCD 01		37.5			0.6					
09S 31W 10BBB 01	TO									
*09S 31W 17CCC 01		90.5			-0.4					
*09S 31W 36AAB 01	TO	156.7	-27	-25.7	-7.6	-0.6	-0.9	79	52	-34
*09S 32W 03AAA 01		101.3			-0.5					
*09S 32W 27BCD 01	TO	124.2	-27	-26.2	0.2	-0.6	-0.9	110	83	-25
*09S 33W 35AAD 01	TO	168.3	-43	-39.3	-0.3	-0.9	-1.3	125	82	-34
*09S 34W 11CCC 01		131.1			0.6					
*09S 34W 12ADA 01	TO	171.3	-37		-0.3	-0.8		135	98	-27
09S 34W 17ABA 01										
*09S 35W 32DAA 01	TO	193.7	-12	-5.7	-7.7	-0.3	-0.2	53	41	-23
*10S 31W 26AAA 01	QA,TO	10.5	1	-5.5	0.4	0.0	-0.2	20	21	5

TABLE 2. DERIVED HYDROLOGIC DATA, THOMAS COUNTY (cont'd)

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
10S 31W 29AAB 01	TO									
*10S 32W 11BAA 01	TO	124.9	-15	-19.9	0.4	-0.3	-0.7	61	46	-25
*10S 32W 29DCB 01	TO	101.3	-23	-21.3	-4.2	-0.5	-0.7	106	83	-22
*10S 33W 06BBC 01	TO	177.9	-42		-2.7	-0.9		179	137	-23
*10S 33W 19CBD 01	TO	107.0	-7	-8.0	-5.3	-0.2	-0.3	66	59	-11
*10S 34W 12BCD 01	TO	178.6	-22	-9.6	-5.8	-0.5	-0.3	140	118	-16
*10S 34W 29BBC 01		83.3			1.2					
*10S 35W 09ABB 01		111.4			-0.9					
*10S 36W 16CCC 01		133.8			0.3					

TREGO COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, TREGO COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)								Data type	
				1950	1966	1990	1991	1992	1993	1994	1995		1996
12S 23W 20CCC 01		2374				21.3	20.9			16.5		17.2	qD60

TREGO COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, TREGO COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
										saturated thickness
			1996	1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996
12S 23W 20CCC 01		17.2								

WALLACE COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, WALLACE COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
*11S 38W 35CCC 02	TO	3372	189	81	76.0	120.3	120.3	118.7	116.5	113.8	114.3	115.0	aJ66
11S 42W 08DDC 01	TO	3953	98	98		108.9	110.9	112.7	111.8	111.3	112.0	113.8	aJ69
11S 42W 10AAD 01	TO	3948				134.1	136.7	132.5	130.6	130.4	130.4	131.6	aJ70
13S 39W 33BBB 01	TO	3322				27.2	27.2	27.2	26.8	25.8	27.0	26.7	qJ70
13S 43W 36ABB 01	TO	3894	270	149	149.0	189.4	191.6	184.4	189.2	189.2	191.9	193.7	aJ57
14S 38W 21DCC 01	TO	3538	94	82	80.1	82.5	82.6	82.4		82.8	82.7	82.8	aJ51
14S 39W 28CAA 01	TO	3602				155.0	150.8	149.9		150.7	151.6	152.8	aJ88
14S 40W 29ABA 01	TO	3702	230	137		185.3	183.0	184.0	185.1	185.9	187.2	188.6	aJ69
14S 41W 18DCB 01	TO	3778	387	106		169.5	170.8	167.6	167.5	168.0	167.9	171.6	aJ77
14S 41W 22BBC 01	TO	3729	218	84	86.1	138.4	142.8	144.4	144.3	144.5	147.2	150.3	aJ58
14S 42W 10BAA 01	TO	3838	403	133		193.9	195.3	195.6	196.5	196.2	206.3	199.7	aJ69
15S 38W 05CCB 01	TO	3531	144	76		106.1	106.3	106.3		106.6	107.0	107.5	aJ77
15S 38W 14CCD 01	TO	3486	150	70	81.1	105.8	106.6	106.5	107.4	108.0	108.5	109.2	aJ58
15S 38W 21CCC 01		3510				149.9	150.6	151.4	150.4	150.7	153.4	154.4	aJ88
15S 39W 02BCA 01	TO	3585	195	109	125.0	154.6	155.9	154.7		150.3	151.4	155.5	aJ58
15S 39W 06CBC 01	TO	3631	223	106	118.8	159.4	163.6	162.8			167.8	168.3	aJ65
15S 39W 08ACC 01	TO	3623	222	113	129.9	165.5	166.0	169.3		171.6	169.4	167.8	qJ48
15S 39W 26ACC 01	TO	3561	239	90	111.5	161.8	160.0	159.8		163.7	170.7	185.2	aJ60
15S 40W 03BAB 01	TO	3636	254	86	85.0	130.6	132.4	134.0	133.6	134.1	137.2	139.0	qJ57
15S 40W 09DCB 01	TO	3653	261	85	90.8	137.1	142.4			143.8	145.6	147.4	aJ67
15S 40W 26CAB 01	TO	3646	245	100	102.0	143.8	146.3	148.8	148.5	150.8	153.8		aJ69
*15S 41W 02AAA 01	TO	3766				218.1	211.4	215.9	214.7	214.6	216.3	222.8	aJ88
15S 41W 05ACB 01	TO	3794	235	136	147.2	207.7	199.4	200.7	201.2	197.2	203.4	204.9	aJ58
15S 41W 27CBC 01	TO	3750	230	145		197.1	198.8	200.1	199.2	199.6	203.1	204.6	aJ69
15S 41W 36DDB 02	TO	3695	265	104	113.1	151.0	153.1	155.4	154.0	154.6	157.8	157.5	aJ66
15S 42W 02BBB 01	TO	3854	225	159	166.9	205.0	205.9	206.0	207.3	208.7	209.4	210.6	aJ69
15S 42W 32BDA 01	TO	3901	271	216	233.9	247.6	247.4	244.6		244.4	246.1	250.3	aJ69
15S 42W 36CDC 01	TO	3844	270	194	214.1	248.7	249.4	250.7	250.6	251.4	252.3	259.7	aJ51

WALLACE COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, WALLACE COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
*11S 38W 35CCC 02	TO	115.0	-34	-39.0	-0.7	-0.7	-1.3	108	74	-31
11S 42W 08DDC 01	TO	113.8	-16		-1.8	-0.3		0	-16	
11S 42W 10AAD 01	TO	131.6			-1.2					
13S 39W 33BBB 01	TO	26.7			0.3					
13S 43W 36ABB 01	TO	193.7	-45	-44.7	-1.8	-1.0	-1.5	121	76	-37
14S 38W 21DCC 01	TO	82.8	-1	-2.7	-0.1	0.0	-0.1	12	11	-8
14S 39W 28CAA 01	TO	152.8			-1.2					
14S 40W 29ABA 01	TO	188.6	-52		-1.4	-1.1		93	41	-56
14S 41W 18DCB 01	TO	171.6	-66		-3.7	-1.4		281	215	-23
14S 41W 22BBC 01	TO	150.3	-66	-64.2	-3.1	-1.4	-2.1	134	68	-49
14S 42W 10BAA 01	TO	199.7	-67		6.6	-1.5		270	203	-25
15S 38W 05CCB 01	TO	107.5	-32		-0.5	-0.7		68	37	-46
15S 38W 14CCD 01	TO	109.2	-39	-28.1	-0.7	-0.8	-0.9	80	41	-49
15S 38W 21CCC 01		154.4			-1.0					
15S 39W 02BCA 01	TO	155.5	-47	-30.5	-4.1	-1.0	-1.0	86	40	-53
15S 39W 06CBC 01	TO	168.3	-62	-49.5	-0.5	-1.3	-1.7	117	55	-53
15S 39W 08ACC 01	TO	167.8	-55	-37.9	1.6	-1.2	-1.3	109	54	-50
15S 39W 26ACC 01	TO	185.2	-95	-73.7	-14.5	-2.1	-2.5	149	54	-64
15S 40W 03BAB 01	TO	139.0	-53	-54.0	-1.8	-1.2	-1.8	168	115	-32
15S 40W 09DCB 01	TO	147.4	-62	-56.6	-1.8	-1.3	-1.9	176	114	-35
15S 40W 26CAB 01	TO									
*15S 41W 02AAA 01	TO	222.8			-6.5					
15S 41W 05ACB 01	TO	204.9	-69	-57.7	-1.5	-1.5	-1.9	99	30	-70
15S 41W 27CBC 01	TO	204.6	-60		-1.5	-1.3		85	25	-71
15S 41W 36DDB 02	TO	157.5	-54	-44.4	0.3	-1.2	-1.5	161	108	-33
15S 42W 02BBB 01	TO	210.6	-52	-43.7	-1.2	-1.1	-1.5	66	14	-79
15S 42W 32BDA 01	TO	250.3	-34	-16.4	-4.2	-0.7	-0.5	55	21	-62
15S 42W 36CDC 01	TO	259.7	-66	-45.6	-7.4	-1.4	-1.5	76	10	-87

WASHINGTON COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, WASHINGTON COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
01S 05E 05ADA 01		1370				41.1	39.2	42.6	39.5	32.9		35.9	qD79
04S 02E 14CCC 01		1485				44.3	45.5	16.9	47.8	45.6		43.8	qD79
05S 01E 31DDD 01		1278				17.6	18.8	19.8	16.9	13.0		16.6	qD75

WASHINGTON COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, WASHINGTON COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
		1996								
01S 05E 05ADA 01		35.9								
04S 02E 14CCC 01		43.8								
05S 01E 31DDD 01		16.6								

WICHITA COUNTY

TABLE 1. SELECTED HYDROLOGIC DATA, WICHITA COUNTY

Well Number	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to water by year (feet)									Data type
				1950	1966	1990	1991	1992	1993	1994	1995	1996	
16S 35W 06AAB 01	TO	3208	118	71	81.5	84.0	86.9	77.6	81.5	81.5	79.5	79.1	aJ48
16S 35W 13CCC 01	TO	3182	170	118	126.6	159.9	159.7		161.2	160.7	162.6	161.6	aJ65
16S 35W 20CCC 01	TO	3228	189	103	124.6	159.5	160.0	159.1	159.4		160.3	161.2	aJ50
16S 36W 03DCC 01	TO	3267	138	87		136.6	136.6	135.6			133.9		aJ47
16S 36W 07BCB 01	TO	3319	140	80	91.8	119.9	119.6	120.3	121.5	122.3		123.4	aJ48
16S 36W 30CBC 01	TO	3319	218	87	109.3	153.7	155.3	157.1	156.3	156.1	157.2	158.0	aJ56
16S 36W 34CCC 02	TO	3275				142.3	145.0	143.8		145.8	144.5	145.4	aJ85
16S 37W 17BBB 01	TO	3399	194	86	101.0	148.9	150.0	151.7	151.4	151.3	153.3	154.6	aJ66
16S 37W 30BAB 01	TO	3404				158.2	159.4	160.3	160.0		163.7	163.2	aJ85
16S 38W 10ABB 01	TO	3458	208	83	96.3	155.4	154.0	153.8		150.0	154.7	156.2	aJ51
16S 38W 26BBB 01	TO	3424	197	75	112.0	143.9	144.8	142.8		146.9	147.4	147.6	aJ61
17S 35W 27CCC 01	TO	3195	210	91	109.6	155.7	152.5	151.3	149.7	146.8	149.3	153.3	aJ55
17S 35W 30CBB 01	TO	3235	218	94	126.6	167.6	171.3	169.6	166.2	162.6	168.8	171.6	aJ51
17S 36W 33BCB 01	TO	3286	208	98	113.3	148.1	151.7	149.6	154.0	151.3	153.4	154.0	uJ65
17S 37W 08BAA 01	TO	3374	196	84	101.2	137.9	143.3	144.1		140.4		141.4	aJ51
17S 37W 13CDD 01	TO	3300	175	70		114.5	118.8	116.7	115.8	116.9	118.5	118.6	aJ72
17S 38W 21BBB 01	TO	3446	165	100	100.3	126.2	126.7	126.9	126.8	127.0	127.6	127.7	aJ64
17S 38W 28CCC 01	TO	3446	190	105	113.6		147.1	150.5	146.2		148.2		aJ67
18S 35W 08BBC 02	TO	3217	186	82		137.9	139.4	139.4	138.8	137.4	140.1	142.8	aJ70
18S 35W 14DCD 01	TO	3171	137	80	91.1	116.8	118.8	116.9	115.5	116.1	115.2	114.7	aJ51
18S 35W 31DDD 01	TO	3210					99.7	100.5	98.7	99.6	98.8	99.4	aJ72
18S 37W 21BBB 01	TO	3360	175	85	113.6	162.9	166.6	159.5	158.6	158.6	156.6	160.1	aJ62
18S 38W 02BCC 01	TO	3414	199	95	115.7	159.3	156.3	156.9	156.2	155.3	159.1	156.9	aJ65
18S 38W 20ACC 02	TO	3440	169	90	108.7	131.9	133.6	133.2	129.8	133.0	134.3	135.4	aJ51
18S 38W 23BAB 01	QA,TO	3340	108	23		42.5	47.1	36.0	45.7		76.0	71.6	aJ71
18S 38W 31DBC 01	TO	3450	148	109	108.7	118.9	119.1	119.7	123.3	117.8	118.5	118.1	aJ48
19S 35W 08BBB 01	TO	3217	135	85		100.0	101.6	99.8	99.4	99.6	99.9	100.4	aJ77
19S 36W 15BAA 01	TO	3236	112	71		80.5	79.8	80.3		80.5	80.4	80.9	aJ69
19S 37W 22AAB 01	TO	3330	138	98			103.4	104.7	103.8	102.4	103.6	104.1	aJ69
19S 37W 28ABB 01	TO	3357				103.5	103.6	105.1	104.3	103.9	104.6		aJ88
19S 38W 26CCB 01	TO	3408	173	96		98.2	98.4	99.7		101.3	98.1	99.5	aJ69
19S 38W 31CBC 01	TO	3463	205	140		139.5	139.6	140.8		140.8	140.9	141.3	aJ69
20S 35W 15BBB 01	TO	3129				67.9	67.9	68.0	68.1	67.9	68.1	68.1	aJ81
20S 37W 29DCC 01	TO	3359	139	98		99.0	104.2	103.7	108.2	103.1	103.0	102.7	aJ70
20S 38W 17CBD 01	TO	3442	232	135		142.5	141.7	141.9		138.5	139.0	139.2	aJ71
20S 38W 33BBA 01	TO	3424	205	126	134.0	139.7	140.3	138.9	138.8	138.0	137.9	137.8	aJ63

WICHITA COUNTY

TABLE 2. DERIVED HYDROLOGIC DATA, WICHITA COUNTY

Well number	Geologic unit	Depth to water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-96	1966-96	1995-96	1950-96	1966-96	1950	1996	1950-96
16S 35W 06AAB 01	TO	79.1	-8	2.4	0.4	-0.2	0.1	47	39	-17
16S 35W 13CCC 01	TO	161.6	-44	-35.0	1.0	-1.0	-1.2	52	8	-85
16S 35W 20CCC 01	TO	161.2	-58	-36.6	-0.9	-1.3	-1.2	86	28	-67
16S 36W 03DCC 01	TO									
16S 36W 07BCB 01	TO	123.4	-43	-31.6		-0.9	-1.1	60	17	-72
16S 36W 30CBC 01	TO	158.0	-71	-48.7	-0.8	-1.5	-1.6	131	60	-54
16S 36W 34CCC 02	TO	145.4			-0.9					
16S 37W 17BBB 01	TO	154.6	-69	-53.6	-1.3	-1.5	-1.8	108	39	-64
16S 37W 30BAB 01	TO	163.2			0.5					
16S 38W 10ABB 01	TO	156.2	-73	-59.9	-1.5	-1.6	-2.0	125	52	-58
16S 38W 26BBB 01	TO	147.6	-73	-35.6	-0.2	-1.6	-1.2	122	49	-60
17S 35W 27CCC 01	TO	153.3	-62	-43.7	-4.0	-1.3	-1.5	119	57	-52
17S 35W 30CBB 01	TO	171.6	-78	-45.0	-2.8	-1.7	-1.5	124	46	-63
17S 36W 33BCB 01	TO	154.0	-56	-40.7	-0.6	-1.2	-1.4	110	54	-51
17S 37W 08BAA 01	TO	141.4	-57	-40.2		-1.2	-1.3	112	55	-51
17S 37W 13CDD 01	TO	118.6	-49		-0.1	-1.1		105	56	-47
17S 38W 21BBB 01	TO	127.7	-28	-27.4	-0.1	-0.6	-0.9	65	37	-43
17S 38W 28CCC 01	TO									
18S 35W 08BBC 02	TO	142.8	-61		-2.7	-1.3		104	43	-59
18S 35W 14DCD 01	TO	114.7	-35	-23.6	0.5	-0.8	-0.8	57	22	-61
18S 35W 31DDD 01	TO	99.4			-0.6					
18S 37W 21BBB 01	TO	160.1	-75	-46.5	-3.5	-1.6	-1.6	90	15	-83
18S 38W 02BCC 01	TO	156.9	-62	-41.2	2.2	-1.3	-1.4	104	42	-60
18S 38W 20ACC 02	TO	135.4	-45	-26.7	-1.1	-1.0	-0.9	79	34	-57
18S 38W 23BAB 01	QA,TO	71.6	-49		4.4	-1.1		85	36	-58
18S 38W 31DBC 01	TO	118.1	-9	-9.4	0.4	-0.2	-0.3	39	30	-23
19S 35W 08BBB 01	TO	100.4	-15		-0.5	-0.3		50	35	-30
19S 36W 15BAA 01	TO	80.9	-10		-0.5	-0.2		41	31	-24
19S 37W 22AAB 01	TO	104.1	-6		-0.5	-0.1		40	34	-15
19S 37W 28ABB 01	TO									
19S 38W 26CCB 01	TO	99.5	-4		-1.4	-0.1		77	74	-4
19S 38W 31CBC 01	TO	141.3	-1		-0.4	0.0		65	64	-2
20S 35W 15BBB 01	TO	68.1			0.0					
20S 37W 29DCC 01	TO	102.7	-5		0.3	-0.1		41	36	-12
20S 38W 17CBD 01	TO	139.2	-4		-0.2	-0.1		97	93	-4
20S 38W 33BBA 01	TO	137.8	-12	-3.8	0.1	-0.3	-0.1	79	67	-15

Appendix C: Wells not appearing in this report because of no recent measurements

01S 03W 09CBD 01	11S 18E 08DAC 01	18S 38W 08BBD 01
01S 04W 15AAA 01	11S 19E 29CCA 01	18S 38W 12BCC 01
02S 36W 15CDD 01	11S 24E 14BDA 01	18S 38W 36DDD 01
02S 39W 27BBB 01	11S 27W 04CCD 01	18S 39W 23CCB 01
03S 31W 23BBB 01	11S 28W 17DDC 01	19S 03W 31BBA 01
04S 31W 25DDD 01	11S 28W 26ABA 01	19S 12W 06ADA 01
04S 35W 13DAD 01	11S 32W 04ACD 01	19S 13W 33DDB 01
04S 41W 25BCB 01	11S 35W 01DCC 01	19S 14W 06BBB 01
05S 01E 20ADA 01	12S 22E 21BCD 01	19S 14W 29DDB 01
05S 29W 11BAA 01	12S 22E 22CAA 01	19S 33W 12DDC 01
05S 35W 10CDD 01	12S 22E 25BCCB01	19S 35W 01AAA 01
05S 39W 18CCC 01	12S 22E 29BBD 01	20S 01W 29DDD 01
06S 22W 28ACA 01	12S 27W 12ABB 01	20S 33W 02DBB 01
06S 24W 35DDD 01	14S 40W 23ADD 01	20S 33W 17BAB 01
06S 27W 27BCC 01	14S 42W 14DBD 01	20S 33W 21ABD 01
06S 36W 06BCD 01	14S 42W 30BCA 01	20S 33W 35DBA 01
06S 38W 09ABD 01	15S 37W 29AAA 01	20S 36W 14DAD 01
06S 41W 01ABB 01	15S 38W 28DBB 01	21S 29W 36CCB 01
07S 17W 24BBB 01	15S 38W 36CBB 01	21S 30W 05BBB 01
07S 23W 17BBC 01	15S 41W 10BAB 01	21S 31W 08ABB 01
07S 32W 13AAA 01	16S 30W 34DAB 01	21S 32W 08ABD 01
07S 36W 35CBB 01	16S 36W 21CCC 01	21S 33W 07DDAA01
08S 28W 09ABC 01	16S 36W 36CBC 01	21S 34W 16AADA02
08S 40W 20CCC 01	16S 41W 20BAD 01	22S 05W 17BCC 01
09S 11E 19CDB 01	16S 41W 33AAB 01	22S 05W 33DBD 01
09S 11E 27CAA 01	17S 09W 31ADC 01	22S 08W 33CCD 01
09S 11E 31DCC 01	17S 29W 03BDC 01	22S 15W 09CCA 01
09S 11E 32ADC 01	17S 32W 31BCB 01	22S 15W 20CDC 01
09S 11E 35DDD 01	17S 33W 07BBB 01	22S 23W 31ADD 01
09S 22W 19BBB 01	17S 35W 02BBB 01	22S 24W 16ADB 02
09S 24W 12BCC 01	17S 35W 15CDC 01	22S 31W 29DCC 01
09S 41W 28AAA 01	17S 35W 18ACB 01	22S 33W 36AAA 02
09S 42W 29CBB 01	17S 36W 10CBB 01	22S 36W 28DCC 01
10S 08E 14CBA 01	17S 36W 23BCC 01	22S 39W 08DDD 01
10S 10E 10DBC 01	17S 37W 28CCC 01	23S 07W 01ABA 01
10S 10E 15DCC 01	17S 38W 24ACC 01	23S 07W 05ABA 01
10S 11E 03BCA 01	17S 42W 27CBB 01	23S 10W 02BAB 01
10S 11E 04ACB 01	18S 29W 04DAD 01	23S 15W 18DDB 01
10S 12E 07BBC 01	18S 33W 11ABB 01	23S 15W 21DCC 01
10S 12E 29ADD 01	18S 33W 15DDD 01	23S 16W 16BAB 01
10S 26W 08BAA 01	18S 33W 26DAD 02	23S 17W 10CDB 01
10S 33W 03DBC 01	18S 33W 34ADB 01	23S 17W 25ADC 01
10S 36W 36ACC 01	18S 36W 15DAD 01	23S 17W 33CCA 01
11S 16E 25CBA 01	18S 37W 01BBB 01	23S 25W 22DBB 01
11S 17E 27BBC 01	18S 37W 36ABB 01	23S 27W 12CCC 01

23S 31W 35CCC 01	26S 43W 10DBB 01	29S 39W 17BCB 01
23S 32W 11ADC 01	27S 18W 36CCA 01	29S 41W 31CBD 01
23S 33W 17BBB 01	27S 22W 09DAB 01	29S 42W 24CCC 01
23S 35W 12CCC 01	27S 23W 28AAA 01	30S 32W 11BBB 01
23S 37W 19CCC 01	27S 30W 23BBA 01	30S 33W 06DBD 01
24S 04W 14DAC 01	27S 33W 29DAA 01	30S 33W 30CBD 01
24S 04W 31DAB 01	27S 36W 18DCB 01	30S 39W 18BBB 01
24S 11W 14CAB 01	27S 36W 25CC 01	31S 04W 01BBB 01
24S 28W 36ACA 01	27S 37W 11ABA 01	31S 31W 13BBC 01
24S 30W 15CCC 01	27S 38W 22CBB 01	31S 31W 32DCC 01
24S 32W 03DAC 01	27S 38W 32BCC 01	31S 35W 19CCC 01
24S 32W 35DD 01	27S 39W 02BBB 01	31S 35W 26DCC 01
25S 02W 16DDA 01	27S 41W 31CCB 02	31S 36W 27BCB 01
25S 23W 14ADD 01	27S 42W 11DBD 01	31S 37W 09BCC 01
25S 24E 36AAC 01	27S 42W 31CCC 01	31S 38W 17CDA 01
25S 29W 27CCB 01	27S 43W 02BBD 01	31S 39W 33BCC 01
25S 31W 21CAB 01	28S 17W 05DDB 01	31S 40W 01DA 01
25S 31W 35DBA 01	28S 18W 09BAC 01	32S 30W 28BBC 01
25S 33W 35DBD 01	28S 18W 26DCA 01	32S 31W 02BBB 01
25S 38W 02BDA 01	28S 26W 10BAA 01	32S 33W 04BAA 01
25S 38W 26ACC 01	28S 28W 07CDD 01	32S 34W 17DCC 01
25S 43W 21AAB 01	28S 28W 20ADD 02	32S 36W 27DDD 01
26S 02W 13ACA 01	28S 32W 18BBB 01	32S 43W 17DCC 01
26S 07W 21DDC 01	28S 33W 29CD 01	33S 30W 21ACC 01
26S 08W 30DCB 01	28S 34W 13BBB 01	33S 30W 35CBB 01
26S 12W 02DBD 01	28S 35W 15CBB 01	33S 36W 03ACA 01
26S 14W 17DCB 01	28S 36W 02CDD 02	33S 38W 20DAD 01
26S 15W 18DAB 01	28S 36W 21CDD 01	33S 41W 03AAD 01
26S 17W 04AAC 01	28S 37W 10BCD 02	33S 41W 33DDD 01
26S 19W 31BAC 01	28S 38W 12DDD 01	33S 43W 09DBA 01
26S 24W 32CBA 01	28S 38W 17AAA 01	34S 33W 04BCD 01
26S 27W 13BBC 01	28S 40W 23ACC 01	34S 35W 03DCC 01
26S 29W 15BCA 01	28S 41W 19CBB 01	34S 35W 07CBB 01
26S 33W 26ABB 01	28S 41W 31BDD 01	34S 37W 27ABC 01
26S 34W 05ADC 01	29S 23W 12BAC 01	34S 38W 02CAC 01
26S 34W 30BD 01	29S 26W 01CDD 01	35S 31W 18BBA 01
26S 41W 12DCC 01	29S 26W 20BDD 01	35S 36W 15AAD 01
26S 41W 32DDB 01	29S 31W 34BCA 01	
26S 41W 36CCC 01	29S 34W 11CCC 01	
26S 42W 22CDB 01	29S 38W 20CDC 01	



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1996

