Kansas Geological Survey Open-file Report 91-12

January 1990 Kansas water levels and data related to water-level changes

Robert W. Buddemeier, Saeed Shamsnia,
John Woods, and Thomas J. McClain

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Acknowledgments

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Figures

In this report we summarize hydrologic data from the program of ground-water-level measurements in Kansas. This program is carried out cooperatively by the Kansas Geological Survey, the Division of Water Resources, and the U.S. Geological Survey and involves water-level measurements on a network of approximately 1,500 monitoring wells. A compilation of the annual measurements is reported by the U.S. Geological Survey (Geiger et al., 1989); however, the purpose of this report is to present the annual data in the context of both recent and long-term water-level changes to provide information on the water resources of the state. As the opportunity arises, additional water-level measurements will be added to the data base, but well measurements by other agencies are not necessarily included in this report. During 1990, the data base underwent a thorough review, as have the procedures used to generate the report. This has resulted in production delays for the present report but will ensure a more timely and accurate report in the future.

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, in the text that follows we provide some basic definitions and descriptions of the occurrence of ground water in Kansas, material on the relationship between precipitation and ground water, and maps summarizing the long- and short-term changes in water level in selected areas of the state.

Measurement Program

Most of the wells in the program are measured annually, some are measured quarterly, and a few are equipped with continuous recorders. For continuous-record wells specific depth values are picked from the record at intervals (typically monthly) and entered into the computer data base. 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 logistic reasons some of the wells are measured in December of the preceding year. For some of the quarterly measured wells, the measurements reported are for March. In using this report, keep in mind that the 1990 water levels reported relate to the beginning of the year, before the 1990 irrigation season, and that they include measurements taken over a period of three to four months.

Ideally, the data should provide a snapshot of regional water levels undisturbed by pumping or other factors. In practice, there are some unavoidable uncertainties. For example it is physically impossible to measure all wells at exactly the same time. Also important is the fact that recovery of the local water level from pumping depends on the schedule and amount of irrigation 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 experimental uncertainties on the measurement process. Thus 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 condition, and 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 consistently related pattern from 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 are areas of relatively low rainfall, ground water is extensively used. In eastern Kansas there are fewer ground-water resources, and surface water is used for most water supplies.

Aquifers can be identified in various ways. In this report the data tables (Appendix B) contain the geologic definition for the aquifer unit, which identifies the type and often the age of the formation. 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 the Equus beds alluvial deposits in south-central Kansas. Throughout Kansas stream and river systems flow across alluvial (streambed) 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 some cases the ground water should probably be treated as part of the river.

Water enters the aquifer through the process of recharge—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 the case of deep aquifers (such as much of the Ogallala), but shallow water tables in permeable sediments may respond promptly to rainfall or streamflow (for example, 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 depth to ground water in a given well as a function of time; they are 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 representative well hydrographs and local rainfall records for various aquifers and geographic regions.

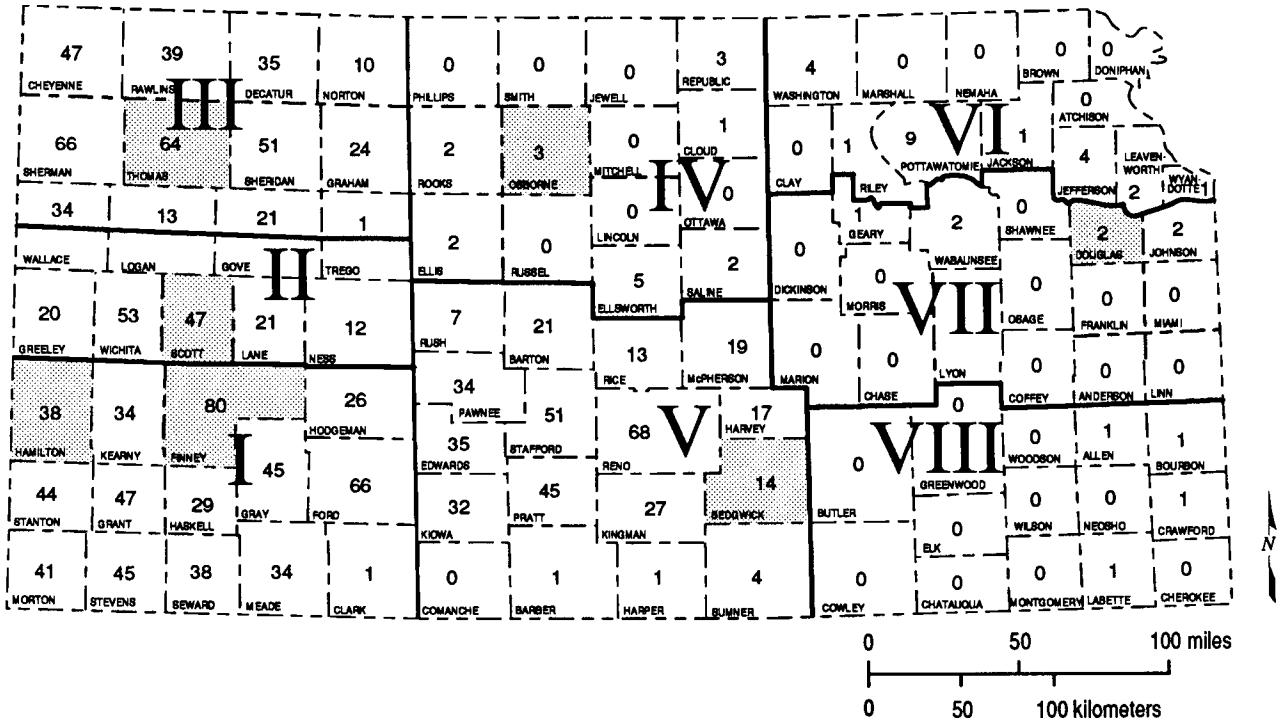

Figure 1. Number of ground-water level observation wells per county, 1990 water year. Shaded counties are those for which precipitation and well hydrograph plots are presented in the text.

The state is divided into eight regions for this report (fig. 1). Regional maps depict ground-water-level changes in the major aquifers of the central and western part 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, which are roughly coincident with Groundwater Management Districts 5 and 2, respectively. Maps are not included in this report for areas of central and eastern Kansas in which there are fewer wells and no laterally extensive major aquifer systems.

Hydrographs and Precipitation Graphs

The rate of recharge to the ground-water reservoir varies with the amount and pattern of precipitation, surface runoff, streamflow, and evaporation. It also varies with the permeability of the soil and other earth materials through which the water must percolate to reach the zone of saturation. The rate of infiltration varies greatly with the condition of the soil at the time of precipitation. The drainage within the watershed and the topography also control infiltration rates. In general, steep slopes favor rapid surface runoff, and more gentle slopes retain water longer, favoring infiltration. However, extremely flat terrain often develops tight surface soils that impede infiltration. Land use, agricultural practices, and vegetation also have important influences on the balance between runoff, recharge, and evaporation.

The intensity and duration of precipitation will affect the rate of water infiltration. Moderate rainfall over an extended period of time favors infiltration. Heavy rain in a short time overpowers the soil's ability to transmit water, thereby increasing runoff to streams.

The hydrographs in figs. 2–8 contain historical information regarding water table fluctuations and precipitation in Douglas, Finney, Hamilton, Osborne, Scott, Sedgwick, and Thomas counties. The increase in ground-water usage and the associated decline in the water table in some counties is known and demonstrated on several of the graphs. Several factors control the fluctuations of the water table of the aquifer (upper graph); for example, the depth to the water table, the volume, rate and timing of ground-water pumping in the area, and the amount of precipitation all vary in different parts of the state. Precipitation (lower graph) may directly affect the water-level change in shallow aquifers. The figures demonstrate trends in the water level and the presence or absence of infiltration effects on various aquifer systems. Deeper aquifers in relatively arid regions, such as the Ogallala, do not show recharge events clearly because of the thickness of the unsaturated zones and the low recharge rate. Water levels in a shallow aquifer, however, may respond rapidly to recharge.

In viewing the graphs it is important to remember that both rainfall and water level are represented by only one measurement per year, although both are quite variable within the year; the total rainfall for one year is plotted under the water level measured at the beginning of the following year. This

reduces the detailed correspondence between the plots, because a wet spring may have less influence on next year's water level than a storm event later in the year.

The abbreviations used in the descriptions of the aquifers are KU, Cretaceous undifferentiated; KJ, Upper Jurassic; KD, Dakota Formation (Cretaceous); TO, Tertiary Ogallala; QA, Quaternary alluvium; and QU, Quaternary undifferentiated. Wells are identified by their legal location (township, range, section). See the introduction to Appendix B for further discussion of location and aquifer identification.

Douglas County, Pleistocene Terrace Deposits (QU)

The two observation wells in Douglas County are in alluvial aquifers. In Douglas County 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 (fig. 2) of the alluvial well in 12S, 20E, 17CCB, illustrates time lags in the recharge of precipitation to the water table. The vertical lines in the graph suggest that there is probably a slight time lag between precipitation and the response of the water table. This is probably due to the depth of the well, the types of sediment through which the water moves, and the volume of water used in the area. During maintained periods of low precipitation (such as 1951–1955), there is a dramatic drop in the water level, indicating imbalance between use and recharge as a result of low rainfall during that time period.

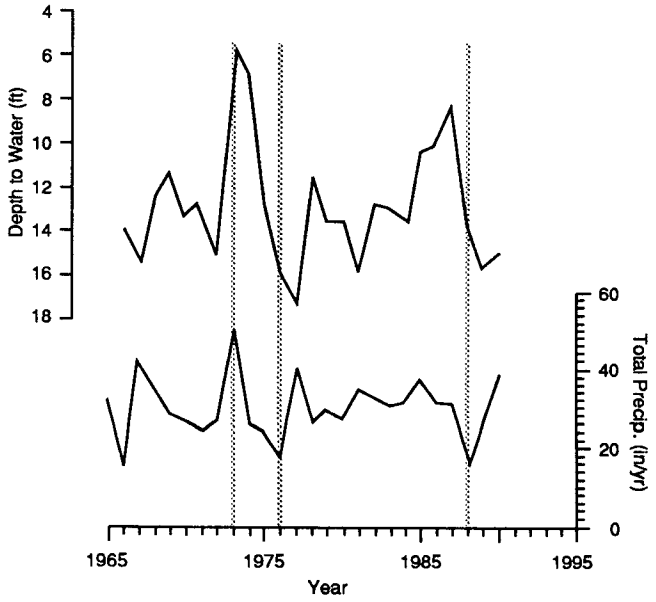

Figure 2. Effect of precipitation recharge on water levels in Douglas County well 12S, 20E, 07CBC [20 ft (9 m), Pleistocene formation]. Precipitation records are from Topeka station.

Finney County, Deposits of Pleistocene Age (QU)

Most of the observation wells in Finney County are within the Ogallala Formation (Tertiary) and in undifferentiated Pleistocene deposits. Of the 80 observation wells in the county, the well in 24S, 32W, 03DAC, is used for the hydrograph (fig. 3). This well is 185 ft (56.4 m) deep, and the formation consists of poorly consolidated sand and gravel of Pleistocene age.

The depth to water was 112.5 ft (34.3 m) in 1989. Compared to the 1950 water level [67.4 ft (20.5 m); table 1], the decline of the water level is 45 ft (14 m), which represents a 67% decline in saturated thickness. This change in saturated thickness for the period 1950–1989 is 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 decline of the water table. As the precipitation graph indicates, there is a fluctuation of precipitation over time with an average of 14–16 in./yr (36–41 cm/yr). As can also be seen from the graph, there is no obvious correlation between the amount of rainfall and the response of the water table.

Hamilton County, Alluvial Deposits (QA)

Various aquifers are used in Hamilton County (KU, KJ, TO, QA, QU). There are 41 observation wells in this county. The hydrograph (fig. 4) of 23S, 43W, 21ABA, is in the Quaternary alluvial aquifer of the Arkansas River valley. Alluvial aquifer systems consist of unconsolidated sand and gravel at relatively shallow depths. The total depth of the well is 29 ft (8.8 m), with a depth to water of 15 ft (4.6 m) in 1950 and 12.9 ft (3.9 m) in 1989. This rise is typical for an alluvial aquifer because the water level fluctuates in response to rainfall events and recharge by the Arkansas River. However, aquifer systems such as the Ogallala and Cretaceous of

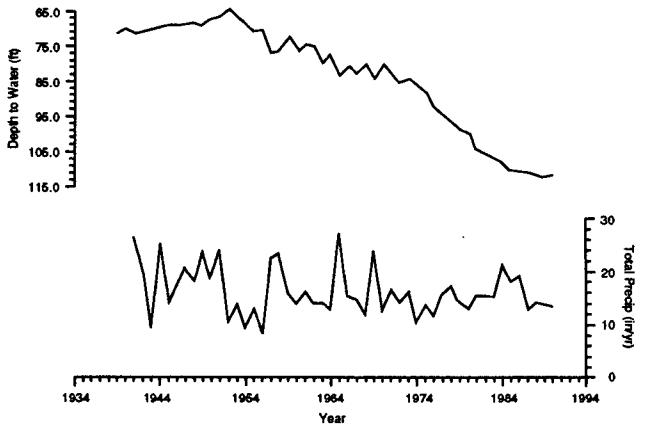

Figure 3. Water levels in Finney County well 24S, 32W, 03DAC [185 ft (56.4 m), Pleistocene/Tertiary formations] compared to precipitation at the Syracuse station.

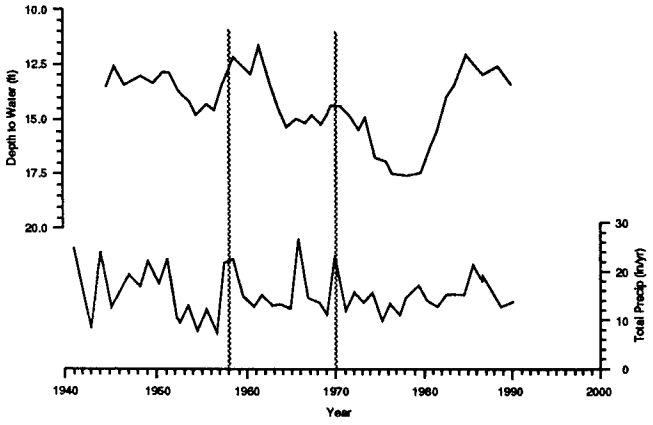

Figure 4. Water levels in the Hamilton County well 23S, 43W, 21ABA [29 ft (8.8 m), alluvial formation] compared to precipitation at the Syracuse station.

Hamilton County show steady declines in the water level as a result of ground-water pumping and low recharge. A well within the Ogallala Formation (TO) shows a decline of 91 ft (28 m), whereas another well penetrating into Cretaceous units shows a decline of 69 ft (21 m) (Appendix B).

The hydrograph (fig. 4) for well 23S, 43W, 21ABA, shows the effects of precipitation on recharge of a shallow well. As can be seen from the graph, there appears to be some relationship between water level and precipitation, but it is neither regular nor strongly correlated. This blurring of the local precipitation signal can probably be attributed to the combination of large-scale and variable local irrigation pumping and to the fact that the stream flows in the Arkansas River basin are influenced by precipitation and water use over a much larger area than that represented by the precipitation at the nearest station.

Osborne County, Terrace Deposits of Pleistocene 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 located at 06S, 12W, 23CDC, is presented in fig. 5. The well is in the alluvium of the north fork of the Solomon River.

This well is 30 ft (9.1 m) deep. The hydrograph (fig. 5) illustrates the effect of recharge, compounded by ground-water pumping, releases from Stockton Reservoir, and surface-water irrigation, on changes in water level on a yearly basis. As shown by the vertical lines, there is a brief time lag between the precipitation pattern (a particularly wet or dry year) and the response of the water table. Because this well is shallow, located in alluvial terrace deposits composed of sands, gravels, and clays, and has a shallow water table [18–25 ft (5.5–7.6 m) on average], it is susceptible to fairly rapid recharge effects on the water table.

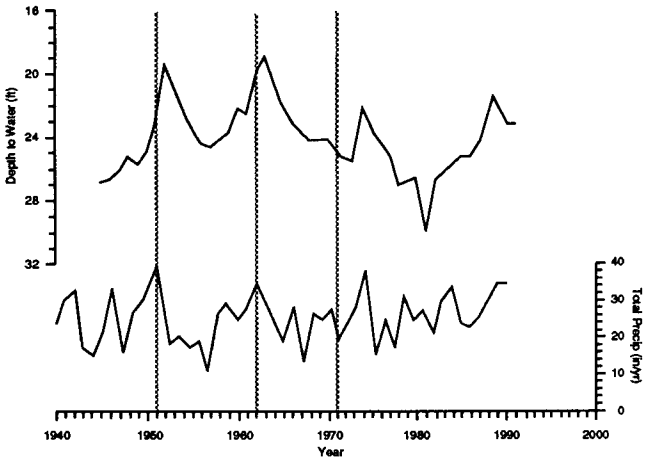

Figure 5. Effects of precipitation (Cawker City station) on water levels in Osborne County well 06S, 12W, 23CDC [30 ft (9.1 m), alluvial formation].

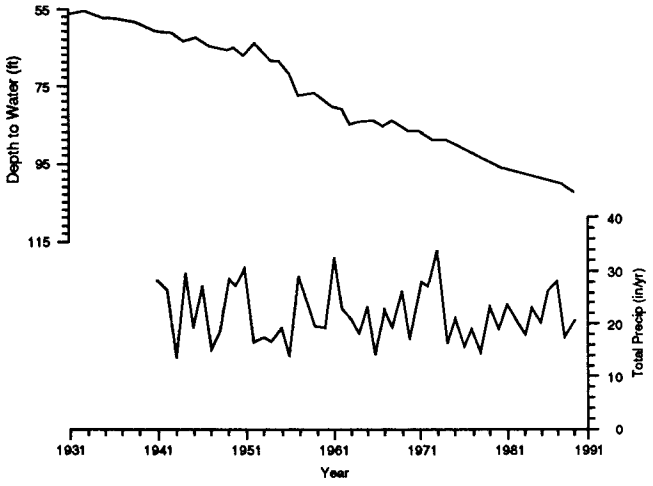

Figure 6. Water levels in Scott County 20S, 33W, 09BBB [128 ft (39.0 m), Ogallala Formation] compared to precipitation at the Utica station.

Scott County, Ogallala Formation of Tertiary Age (TO)

All the observation wells in Scott County are within the Ogallala Formation (TO). Of the 46 observation wells, 20S, 33W, 09BBB, is used for the hydrograph (fig. 6). This observation well consists of 128 ft (39.0 m) of the Ogallala Formation. The Ogallala is composed of coarse-grained sand and gravel and is overlain by Pleistocene loess deposits of sand, silt, and clay.

The depth to water was 101.6 ft (31.0 m) in 1989. Compared to the 1950 level [60 ft (18 m); table 1], the decline of the water level is 42 ft (14 m), which represents a 62% decline in saturated thickness. This change in saturated thickness for the period 1950–1989 is typical of the Ogallala aquifer in Scott County.

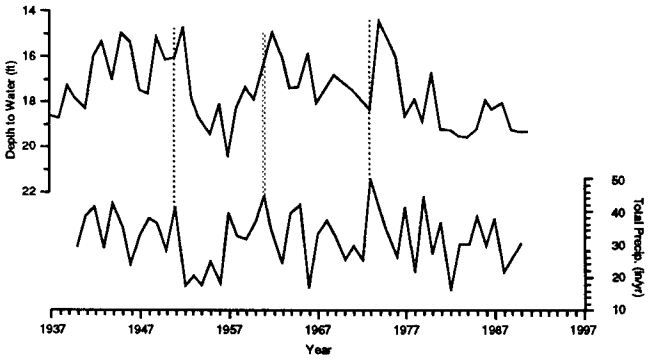

Figure 7. Effect of precipitation recharge on water levels in Sedgwick County well 25S, 01W, 28DBA [54 ft (16 m), Pleistocene alluvial formation]. Precipitation records are from the Sedgwick station.

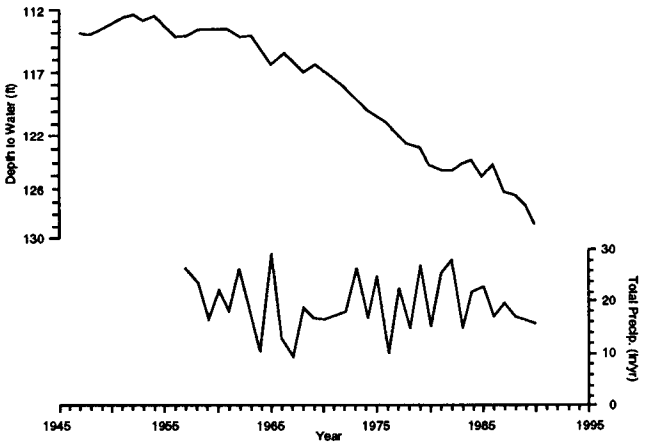

Figure 8. Water levels in Thomas County well 08S, 34W, 01BAC [160 ft (48.8 m), Ogallala Formation] compared to precipitation at the Colby station.

The hydrograph (fig. 6) illustrates that there is no observable relationship between low and variable annual rainfall and the water table variations; this is consistent with other studies that indicate that average annual recharge is of the order of 0.25 in./yr (0.6 cm/yr) and that the time required for water to move from the surface to the water table in some locations may be 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)

Sedgwick County contains 12 observation wells from which data is collected for this report. The hydrograph (fig. 7) of the observation well located at 25S, 01W, 26DBD, 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 (fig. 7) illustrates the effect of recharge on changes in water level on a yearly basis. As shown by the vertical lines, there is a consistent time lag between the recharge source (a high annual rainfall) and the response of the water table. Because this well is shallow, located in alluvial terrace deposits, and has a shallow water table [18–25 ft (5.5–7.6 m) on average], it is susceptible to fairly rapid recharge effects on the water table.

Thomas County, Ogallala Formation of Tertiary Age

There are 62 observation wells in Thomas County. The primary aquifer in Thomas County is the Ogallala Formation. The Ogallala is composed of coarse-grained sand and gravel and is overlain by Pleistocene loess. The depth of the selected observation well in the Ogallala aquifer is 270 ft (82 m) at location 08S, 34W, 01BAC. The depth to water in this well has declined from 113 ft (34.4 m) in 1950 to 127.6 ft (38.9 m) in 1989. This drop of nearly 15 ft (4.6 m) represents approximately 10% of the total saturated thickness.

Like the Scott County example, the hydrograph (fig. 8) illustrates that there is no obvious correlation between the amount of rainfall and the response of 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 a low annual rainfall produces slow precipitation recharge of the aquifer with long time lags between rainfall and recharge. The long-term imbalance between ground-water withdrawal and recharge is evident from the yearly decline of water levels over a 40-year period with a relatively steady amount of precipitation.

Regional Decline Maps

The state of Kansas has been divided into eight regions (see fig. 1). The following maps (figs. 9-12) are divided into two parts. Part A in each case shows the water level change from the predevelopment era (usually taken as 1940–1950, depending on the availability of early data) to 1990, and part B shows the generalized water-level change from January 1989 to January 1990. The location of the major aquifer unit is also shown by shading on each map.

Region I: Southwestern Kansas

As the regional contour map (fig. 9) shows, there have been substantial declines from predevelopment conditions in ground-water levels in the western part of the area, with smaller but still significant declines in the eastern part. The hydrograph from Finney County (fig. 3) illustrates the time history of steady decline of the water table in this area as a result of increased irrigation. However, because of the large original saturated thickness of the Ogallala Formation in this area, substantial reserves of ground-water still exist.

The annual change map indicates significant continuing declines over much of the area but with apparent stabilization or slight recovery of the water table around the perimeter of the aquifer and in the southwest portion of the area. Comparisons with 1989 data (Townsend et al., 1989) indicate that average and peak declines were less this year than last, presumably because higher rainfall reduced the need for irrigation pumping. However, as discussed earlier, extreme caution must be used in interpreting annual changes because of the many sources of year-to-year variability. The primary aquifers in this part of the state are in Cretaceous, Ogallala, and alluvial units.

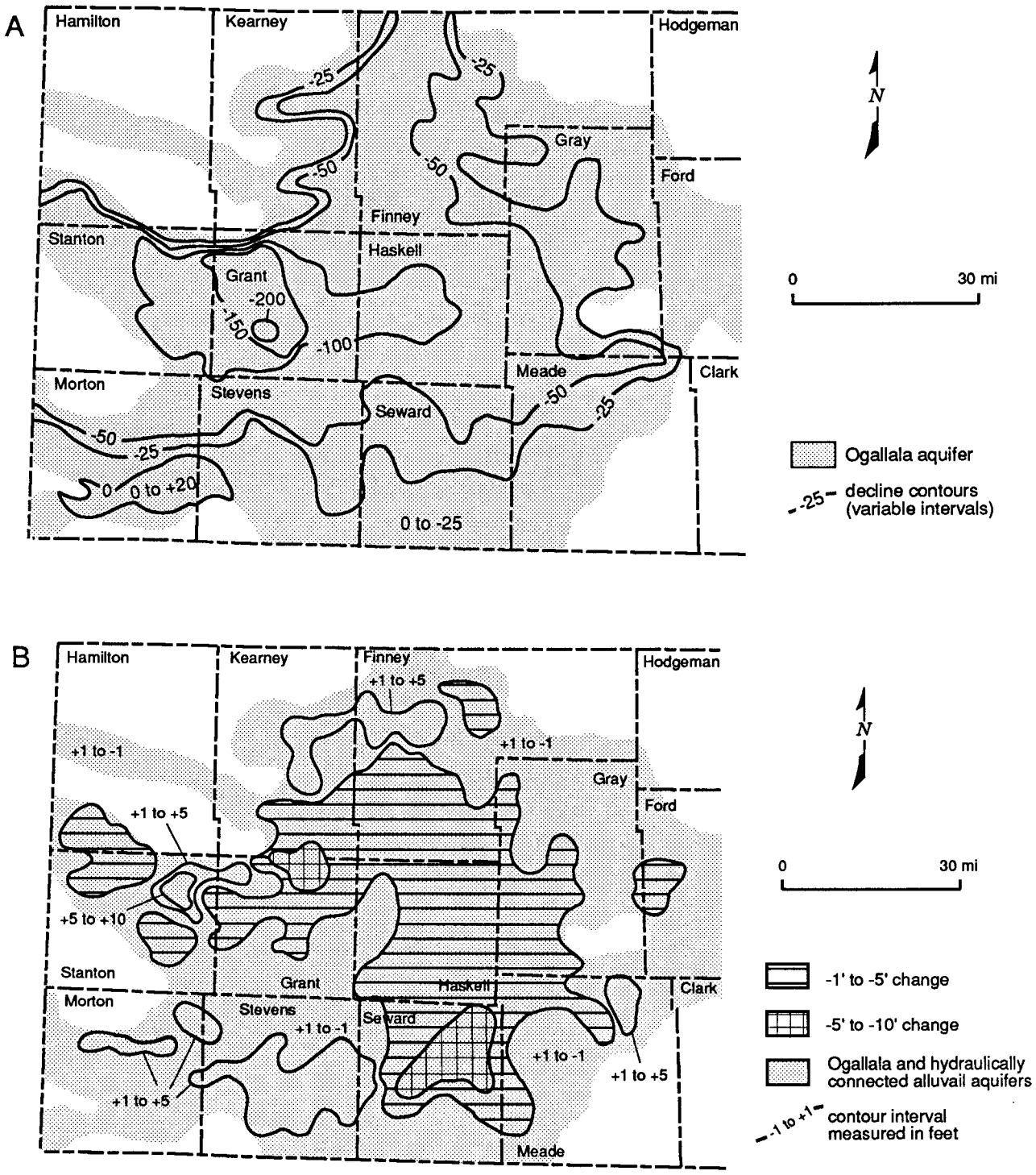

Figure 9. (A) Generalized water-level change map for region I, southwest Kansas, predevelopment to 1990. (B) Generalized annual water-level change map for region I, southwest Kansas, 1989–1990.

Region II: West-central Kansas

The west-central region of Kansas consists of an area 1.5 counties high and 6 counties wide extending eastward from the Kansas–Colorado border. Within this region the primary aquifer is the Ogallala Formation of Tertiary age. Water-level declines since the predevelopment period (fig 10A) exceed 50 ft (15 m) in the central part of the aquifer; because the saturated thickness was originally less in this region, these declines represent a larger fraction of the total water reserves than is the case in portions of the Ogallala in regions I and III. The hydrograph for Scott County (fig. 6) illustrates the general decline in the region.

The Ogallala water-level changes for the annual period 1989–1990 range up to a decline of 5 ft (2 m) in the western part of the region, with little change along the fringes of the aquifer and in the eastern regions (fig. 10B). This pattern differs from that of 1989, when declines were greatest in a more easterly region centered on Scott County.

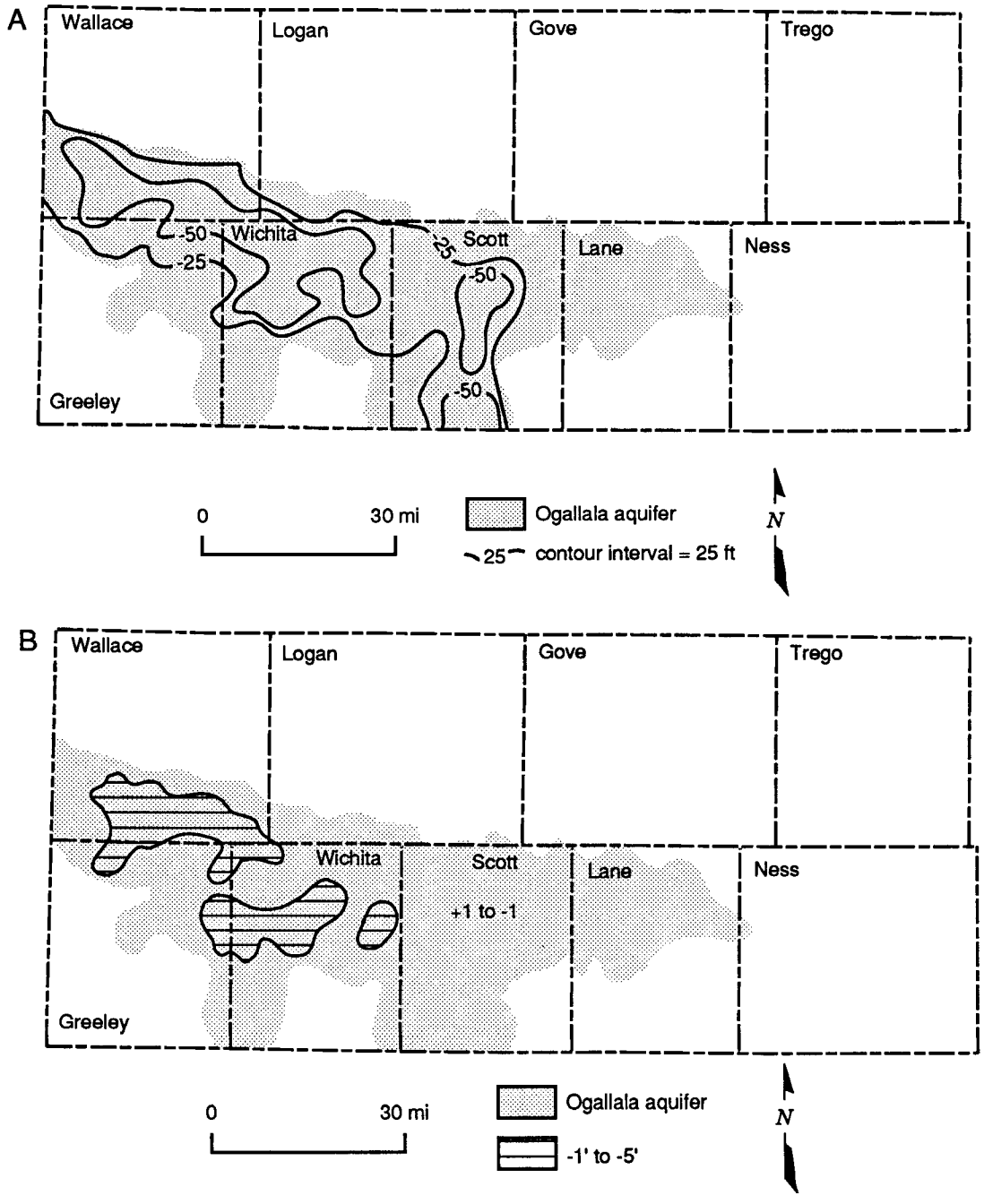

Figure 10. (A) Generalized water-level decline map for region II, west-central Kansas, predevelopment to 1989. (B) Generalized water-level change map for region II, west-central Kansas, 1989–1990.

Region III: Northwest Kansas

In the northwest part of the state the primary aquifer is the Ogallala Formation. Counties in this region have the highest number of observation wells; therefore abundant information concerning the declining water level of the Ogallala exists (fig. 11). The hydrograph for Thomas County (fig. 8) illustrates the continued water table decline, which is typical for the entire region. Declines from predevelopment levels range from 0 to 50 ft (0–15 m).

The decline of the water table for 1989–1990 is shown on the regional map (fig. 11B) as 1–5 ft (1–2 m) for some areas in the western and central portions of the region. Some areas show little decline throughout the year, and there are limited areas of apparent rise.

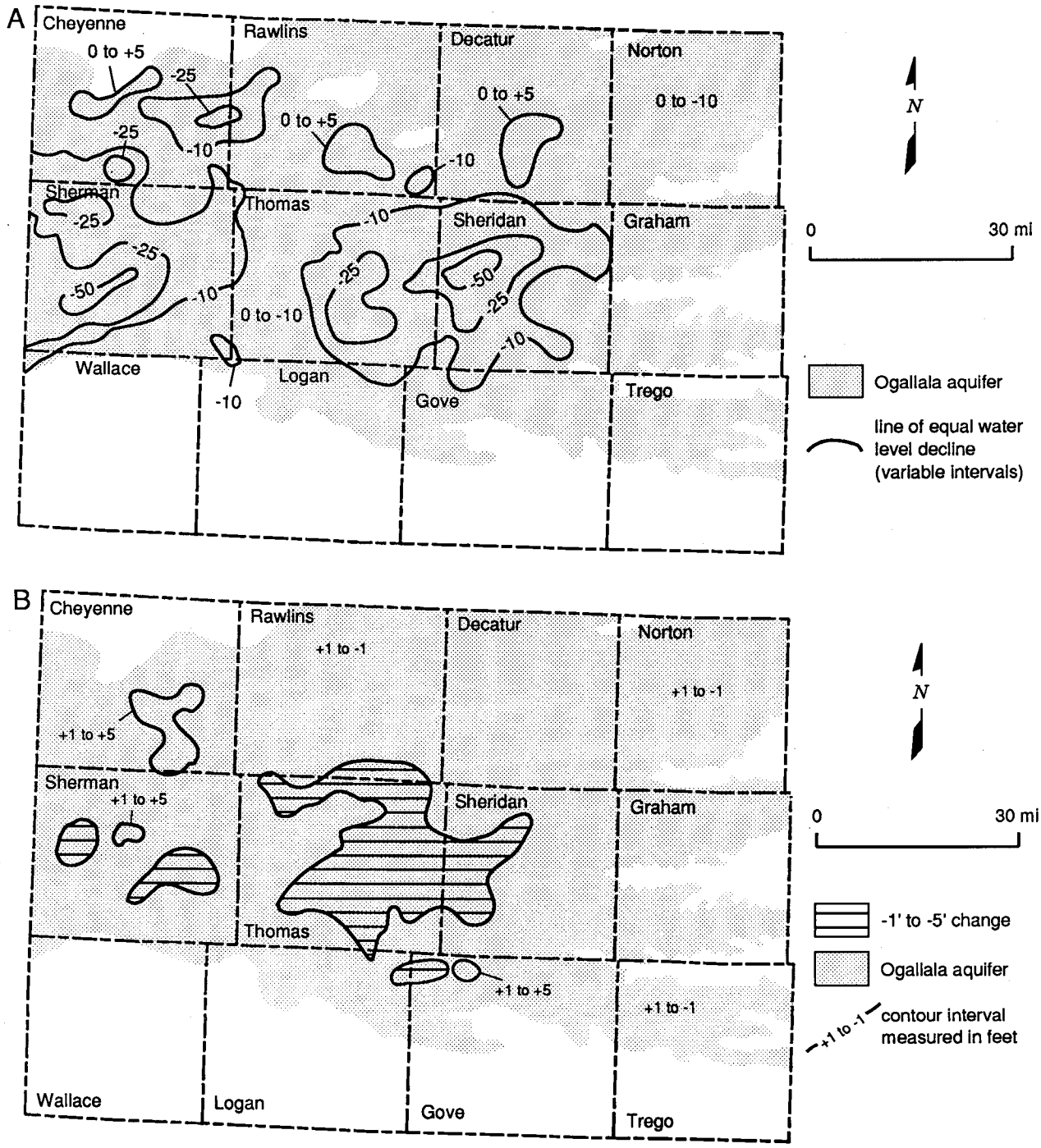

Figure 11. (A) Generalized water-level decline map for region III, northwest Kansas, predevelopment to 1990. (B) Generalized annual water-level change map for region III, northwest Kansas, 1989–1990.

Region V: South-central Kansas

The south-central region is located east of the easternmost extension of the Ogallala Formation. In this region the primary aquifer is the Quaternary alluvium, with agriculture being the leading consumer of ground water. There are some significant areas of water table decline (fig. 12) since the predevelopment period, but water-level decline is minimal if the earliest dates (1940's) are excluded from the interpretation. The initial period of pumping for irrigation has suppressed the original high water table, and levels have remained relatively unchanged for the last 30 years.

Annual water level changes for the period 1989–1990 are minimal, with most of the area showing general stability to slight rises (fig. 12B). In the central portion of this area the freshwater aquifer is underlain by formations containing saltwater, which can move up to replace the freshwater if pumping exceeds recharge. In a situation of this sort, depletion of the ground-water resource must be monitored by changes in water quality rather than by the simpler and more conventional measurements of water level.

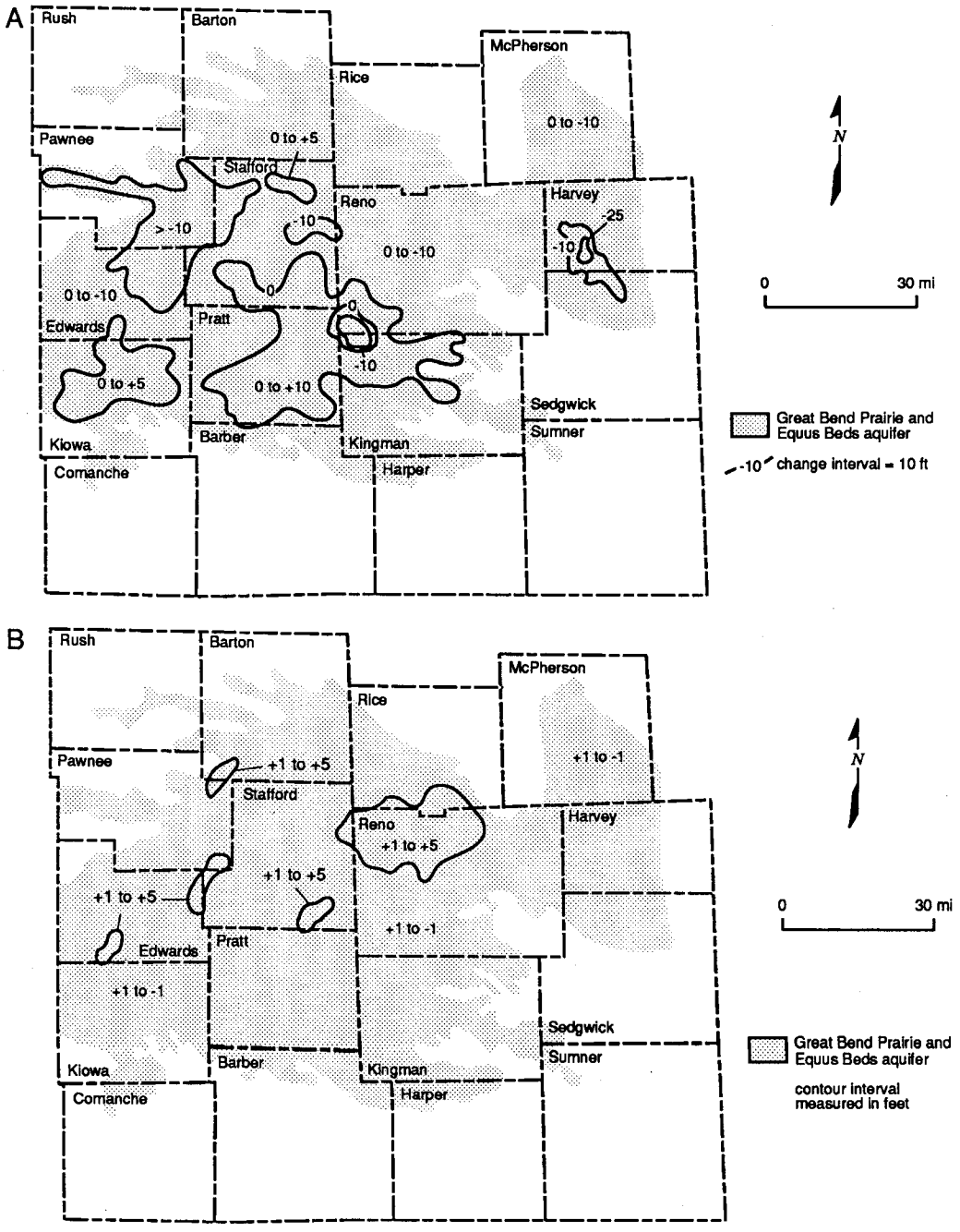

Figure 12. (A) Generalized water-level change map for region V, south-central Kansas, predevelopment to 1990. (B) Generalized annual water-level change map for region V, south-central Kansas, 1989–1990.

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 made in Kansas during 1956–1965 have been published in Kansas Geological Survey Bulletins, listed in table A.2.

In addition to the publications listed, records of annual water-level measurements in Kansas Can be found in the references cited in the reference list.

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
1957–1961	1781
1962–1966	1976
1966–1971	2090

a. Can be purchased from the U.S. Geological Survey, Books and Open-File Reports, Federal Center, Box 25425, Denver, CO 80225.

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.

Appendix B: Water-level-data Tables

Water-level data are presented in tables 1 and 2, which are organized alphabetically by county. Table 1 lists the basic hydrologic and geologic data, and table 2 presents information on changes in water resources derived by calculations from the data presented in table 1. The information that follows describes the nature of the information presented and how to use the tables.

As a result of detailed comparison of the data base with previous publications, a small number of errors were identified in earlier reports. In the tables that follow, wells marked with a leading asterisk (*) are those for which corrections have resulted in discrepancies between this report and previous publications. The corrected data will be used in all future publications. Two wells in Finney County are marked with a leading plus sign (+). In these wells the water level listed is below the top of 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 bedrock to act as an aquifer.

Table 1

Column 1 contains the well number, a unique identifier based primarily on the geographic location 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 denotes the 160-acre tract; the second, the 40-acre tract; and the third, the 10-acre tract. The letters A, B, C, and D designate the tract in a counterclockwise manner. Therefore

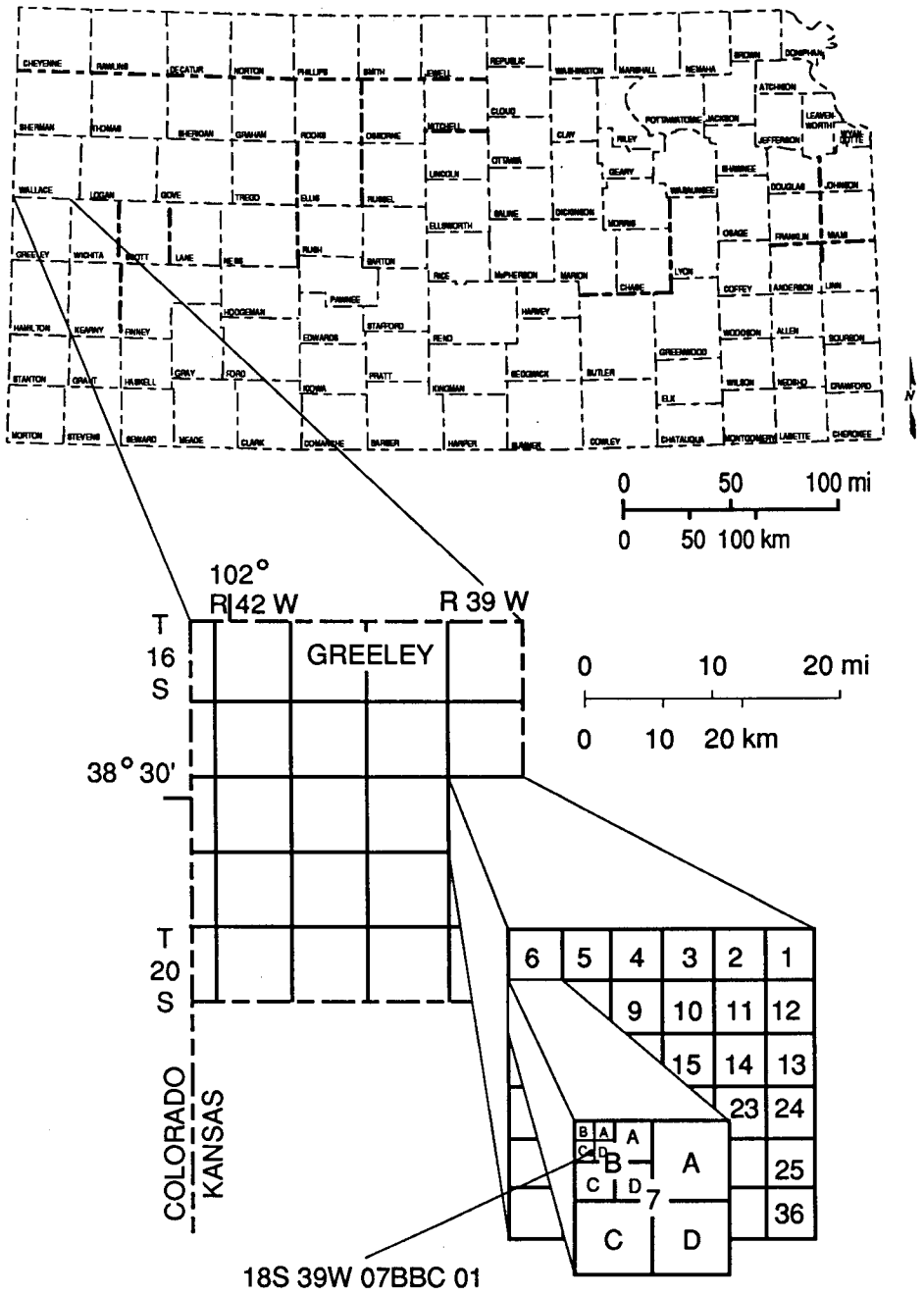

Figure 13. Well location diagram.

a location denoted as SWNWNW sec. 7, T. 18 S., R. 39 W., of Greeley County is expressed as 18S, 39W, 07BBC, of the same county. The final number is used to identify the specific well in cases where there are more than one well in the same 10-acre tract.

Column 2 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 1989 water levels are treated as 1990 values). It should be noted that measurement frequency and month of observation may not be consistent throughout the entire record. Monthly records are actually obtained from wells with continuous water-level recorders, from which monthly values are extracted and entered into the digital record.

Column 3 identifies the principal geologic unit in which the well is located. Letter designations for the geologic units in the tables are: KJ, undifferentiated Lower Cretaceous and

Upper Jurassic rocks; KD, Dakota Formation (Cretaceous); KN, Niobrara Chalk (Cretaceous); KU, undifferentiated Lower Cretaceous rocks; TO, Ogallala Formation (Tertiary); QA, Quaternary alluvium; and QU, undifferentiated Quaternary deposits. Geologic unit designations are not given in cases where there is no record of field observations, although in many locations the geologic unit can 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 it indicates 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 may be influenced by more than one unit.

Column 4 gives the land-surface altitude of the well (in feet above sea level). By subtracting the depth to water (below) from the land-surface altitude, one can find the altitude (elevation) of the water table. The primary wells in the observation network have been surveyed, but land-surface altitudes have not been measured for many of the secondary wells that are included in this publication to provide an expanded data base.

Column 5 presents the depth to bedrock where that is known. The bedrock is normally assumed to occur at the bottom of the aquifer, so the difference between the depth to water and the depth to bedrock is the saturated thickness of the formation.

Column 6 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 reliable water table maps are available. Predevelopment water levels are assigned to the well location on the basis of such maps because the specific wells were generally not in existence then,

Column 7 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 8–14 give the depths to water measured in each year from 1984 through 1990. Larger numbers indicate greater depths and therefore declining water reserves.

Table 2

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

Column 3 gives the 1990 depth to water (see table 1 for actual month of measurement).

Column 4 gives water-level change from the base-reference (predevelopment) year to 1990.

Column 5 gives water-level change from the reference year (1966 or 1974) to 1990.

Column 6 gives the water-level change over the preceding year (1989–1990).

Columns 7 and 8 present the average annual rates of change between the base reference (predevelopment) year and 1990 and between the reference year (1966 or 1974) and 1990, respectively.

Columns 9 and 10 present the saturated thicknesses of the water-bearing deposits in the base-reference (predevelopment) year and in 1990, respectively. These values are available only for wells for which depth to bedrock is known.

Column 11 gives the percentage change in saturated thickness from the base-reference year to 1989. This is roughly equivalent to the percentage depletion of the original water resource.

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Allen County

TABLE 1. -- SELECTED HYDROLOGIC DATA, ALLEN COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
24S 18E 28CDD 01	qM64		948.				13.9	4.1	9.3	4.0	7.9	14.2	10.5

TABLE 2. -- DERIVED HYDROLOGIC DATA, ALLEN COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1940	1989	Percentage change saturated thickness 1940-90
24S 18E 28CDD 01		10.5			3.7					

Barber County

TABLE 1. -- SELECTED HYDROLOGIC DATA, BARBER COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1940	1966	1984	1985	1986	1987	1988	1989	1990
*32S 12W 04DBC 01	aD40		1480.		16	16.4	15.0	15.1	13.0	13.7	13.5	14.6	14.1

TABLE 2. -- DERIVED HYDROLOGIC DATA, BARBER COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
*32S 12W 04DBC 01		14.1	2	2.3	.5		.1			

Barton County

TABLE 1. -- SELECTED HYDROLOGIC DATA, BARTON COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1944	1974	1984	1985	1986	1987	1988	1989	1990
18S 14W 27CDD 01	aJ72		1896.							45.2	43.1	47.1	46.9
18S 15W 28CCC 03	aJ60	QA	1912.		9		22.7	22.4	22.2	23.5	17.7	21.7	22.7
19S 11W 19BDD 01	aJ85		1791.		13			19.6	20.4	20.4	19.8	20.5	20.7
19S 11W 26BDA 01	aJ85		1772.		7			13.9	12.8	13.4	12.5	14.2	
19S 12W 06ADA 01	aJ85		1800.					6.7	4.1	4.7	3.4		
19S 13W 08BAD 01	aJ77		1855.		11		20.4	20.6	20.4	19.9	17.2	19.8	20.4
19S 13W 33DDB 01	aJ63	QA	1847.		4	4.4	10.6	9.6	9.0	9.5	8.8	10.4	
19S 14W 06BBB 01	aJ79		1895.		13		20.6	21.4	20.7	20.5	17.4	20.0	21.2
19S 14W 23BBD 01	aJ86		1873.							19.5	17.7	20.1	19.2
19S 14W 29DDB 01	aJ79		1895.		20		28.1	28.7	29.2	29.2	28.5	30.1	29.6
19S 14W 36BBC 01	aJ85		1868.		8			11.7	11.2	11.8	10.2	12.1	11.2
20S 11W 06CCC 01	aJ67	QA	1788.	138	9	5.6	11.9	10.9	9.8	10.4	9.5	11.0	10.9
20S 11W 26AAC 01	aJ73	QU	1752.	112	3	1.6	11.0	11.0	7.8	10.0	9.1	11.4	11.7
20S 12W 03DAC 01	aJ72		1799.	144	2	1.3	8.0		7.0	7.6	6.6		8.0
20S 12W 06AAC 01	aJ73	QU	1822.	117	7	5.1	10.0	9.6	9.2	9.8		9.7	9.8
20S 12W 23CCA 01	aJ73	QU	1814.	159	11	3.7	16.8	17.8	13.3	14.4	12.7	16.0	16.0
20S 13W 17DDC 01	aJ73	QU	1876.	126	11	7.2	16.6	17.7	16.3	16.8	14.9	17.4	15.4
20S 13W 24DCB 01	aJ68	QU	1850.	140	12	9.6	22.0	23.3	20.5	20.7	18.9	20.9	20.9
20S 14W 22DCB 01	aJ67		1897.	152	6	6.5	14.4	15.0	14.2	14.3	12.6	15.3	14.1
20S 15W 24DBD 01	aJ77		1915.		10		14.4	14.8	14.6	14.5	12.3	14.7	12.9
20S 15W 33ADD 01	aJ84		1945.		15			20.3	19.9	19.9	17.6	19.7	18.1

TABLE 2. -- DERIVED HYDROLOGIC DATA, BARTON COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	Water-level change (feet) 1974-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1944-90	Average annual water-level change (feet/year) 1974-90	Saturated thickness (feet) 1944	Saturated thickness (feet) 1990	Percentage change saturated thickness 1944-90
18S 14W 27CDD 01		46.9			.2					
18S 15W 28CCC 03	QA	22.7	-14		-1.0	-.4				
19S 11W 19BDD 01		20.7	-8		-.2	-.2				
19S 11W 26BDA 01										
19S 12W 06ADA 01										
19S 13W 08BAD 01		20.4	-9		-.6	-.2				
19S 13W 33DDB 01	QA									
19S 14W 06BBB 01		21.2	-8		-1.2	-.2				
19S 14W 23BBD 01		19.2			.9					
19S 14W 29DDB 01		29.6	-10		.5	-.3				
19S 14W 36BBC 01		11.2	-3		.9	-.1				
20S 11W 06CCC 01	QA	10.9	-2	-5.3	.1	-.1	-.2	129	127	-2
20S 11W 26AAC 01	QU	11.7	-9	-10.1	-.3	-.2	-.4	109	100	-8
20S 12W 03DAC 01		8.0	-6	-6.7		-.1	-.3	142	136	-4
20S 12W 06AAC 01	QU	9.8	-3	-4.7	-.1	-.1	-.2	110	107	-3
20S 12W 23CCA 01	QU	16.0	-5	-12.3	.0	-.1	-.5	148	143	-3
20S 13W 17DDC 01	QU	15.4	-4	-8.2	2.0	-.1	-.3	115	111	-3
20S 13W 24DCB 01	QU	20.9	-9	-11.3	.0	-.2	-.5	128	119	-7
20S 14W 22DCB 01		14.1	-8	-7.6	1.2	-.2	-.3	146	138	-5
20S 15W 24DBD 01		12.9	-3		1.8	-.1				
20S 15W 33ADD 01		18.1	-3		1.6	-.1				

Bourbon County

TABLE 1. -- SELECTED HYDROLOGIC DATA, BOURBON COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
25S 24E 36AAC 01	qM77		916.				185.7	186.0	196.0	223.0	222.6	229.9	225.7

TABLE 2. -- DERIVED HYDROLOGIC DATA, BOURBON COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
25S 24E 36AAC 01		225.7			4.2					

Cheyenne County

TABLE 1. -- SELECTED HYDROLOGIC DATA, CHEYENNE COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
01S 38W 02CDC 01	aJ48	TO	3034.	41	23	22.6	24.3	24.1	24.1	24.2	24.0	24.1	23.7
01S 38W 08DCC 01	aJ46	QA	3057.	33	12	12.3	13.9	13.9	13.4	13.6	13.8	13.7	13.0
01S 38W 30BDC 01	aJ64	QA	3090.	28	7	8.0	8.8	9.1	9.1	9.6	8.9	9.0	9.2
01S 39W 25CBC 01	aJ66	QA	3102.	26	7	8.5	9.6	9.7	9.5	10.2	9.5	9.7	9.6
02S 37W 33DCC 01	aJ84		3420.					215.9	212.7	213.3	213.1	218.0	220.3
02S 39W 27BBB 01	aJ46	QA	3235.	28	18	17.8	17.9	17.7	17.9	18.2	18.2	18.1	18.2
02S 40W 28DBA 01	aJ65	TO	3452.	140	112	112.5	112.3	112.1	116.5	115.8	111.2	110.9	111.2
02S 40W 32BCB 01	aJ84	TO	3492.					130.6	130.5	130.4	130.4	132.2	130.3
02S 41W 27BBD 01	aJ64	TO	3620.	242	200	198.6		207.5	200.8	207.4	200.5	201.5	201.2
02S 41W 33DBC 01	aJ65	TO	3650.	288	235	235.2	236.8	238.5	236.5	236.3	236.8	236.5	237.1
03S 37W 19BBC 01	aJ50	TO	3468.	325	215	219.8	230.5	228.5	229.7	230.2	230.3	230.8	231.0
03S 37W 21DDD 01	aJ79	TO	3422.	312	194		218.5		218.3	218.6	217.8	218.2	218.6
03S 37W 36ADB 01	aJ65	TO	3381.	300	175	182.0	200.0	201.2	199.9	201.7	201.4	204.5	204.3
03S 38W 04BCC 01	aJ66	TO	3479.					230.7	217.9	217.9	217.6	217.6	218.3
03S 38W 21BCB 01	aJ66	TO	3512.					237.0	240.1	240.1	239.7	243.5	245.7
03S 38W 25BBB 01	aJ85		3479.					226.7	227.0	227.2	227.0	232.7	227.0
03S 39W 04CCC 01	aJ50	TO	3351.					67.5	65.6	66.4	66.8	67.9	71.2
03S 39W 20DAC 01	aJ64	TO	3450.	199	130	140.4	144.1	143.2	140.2	140.2	139.4	141.0	140.6
03S 39W 24DDD 01	aJ78	TO	3505.	275	205		220.7	221.5	221.5	222.0	221.7	222.7	222.7
03S 39W 32BDB 01	aJ60	TO	3490.	223	150	153.6	153.5	154.5	153.5	153.6	153.3	158.4	153.1
03S 40W 09BAA 02	aJ51	QA,TO	3358.	22	20	19.9	20.6	20.4	19.9	19.9	19.8	19.7	19.7
03S 40W 35AAC 01	aJ64	TO	3445.	144	95	96.1	98.8	98.5	97.9	96.6	97.8	96.9	97.3
03S 41W 33ABB 01	aJ81		3594.	184	164		165.4	164.1	163.5	165.0	162.1	161.8	161.8
03S 42W 04AAA 01	aJ78	TO	3727.	255	230		231.0	231.0	231.3	230.9	231.0	230.9	230.9
03S 42W 26CCD 01	aJ85		3702.					206.2	205.2	205.0	205.2	212.0	205.8
04S 37W 17AAC 01	aJ66	TO	3446.	325	187	187.9	195.7	196.3	197.3	197.5	197.6	197.0	200.0
04S 37W 25DCA 01	aJ64	TO	3374.	284	147	141.5	151.1	151.2	151.9	151.8		152.4	153.3
04S 38W 04BAC 01	aJ66	TO	3509.	327	207	207.0	216.9	217.7	218.6	218.9	218.7	228.3	220.5
04S 38W 20CCC 01	aJ67	TO	3485.	297	151	149.5	156.6	156.9	157.0	157.2	157.3	160.4	157.5
04S 38W 21ADC 01	aJ65	TO	3491.	316	178	188.0	184.8	185.1	185.4	185.9	187.6	186.1	190.1
04S 40W 22BCB 01	aJ50	TO	3520.	215	123	123.9	125.0	124.9	124.6	124.3	124.3	124.4	126.4
04S 41W 16DAA 01	aJ64	QA	3403.	38	13	14.2	15.3	15.2	15.5	15.6	15.7	15.8	15.9
04S 41W 23AAA 01	aJ85		3526.					121.0	120.9	120.5	120.9	120.6	122.2
04S 41W 25BCB 01	aJ46	TO	3571.	211	141	139.6		142.7	142.8	142.8	142.8	142.9	143.3
04S 41W 31ACA 01	aJ46	TO	3552.	142	94	94.0	98.3	96.0	96.6	96.4	97.1	97.0	97.4
04S 42W 02BCC 01	aJ85		3704.					213.4	213.1	214.6	213.6	213.7	216.0
04S 42W 16CCD 01	aJ84		3590.						87.4	86.2	88.9	89.2	89.9
05S 37W 15DBB 01	aJ64	TO	3397.	297	137	136.4	149.3	150.1	150.1	145.7	143.9	151.3	151.1
05S 38W 13BAD 01	aJ64	TO	3390.	220	74	72.5	77.7	77.9	78.1	78.7	78.0	78.1	77.9
05S 38W 22ACB 01	aJ64	TO	3437.	270	90	90.6	98.1	97.7	97.7	97.8	99.9	103.5	95.3
05S 39W 06DAA 01	aJ80						210.8	211.4	212.1	214.5	218.1	213.0	213.5
05S 39W 11CBC 01	aJ65	TO	3530.	291	140	140.1		151.1	150.1	150.5	149.2	149.0	149.3
05S 39W 18CCC 01	aJ78	TO	3630.	325	185		212.9	220.0	218.9	218.9	216.9	218.7	221.5
05S 39W 25CDA 01	aJ65	TO	3533.	295	127	125.0	132.6	133.1	132.1	132.6	134.7	135.1	132.6
05S 40W 14BCD 01	aJ75	TO	3645.	325	187		222.1	221.4	221.9	220.8	220.7	221.9	222.2
05S 41W 20DAA 01	aJ64	TO	3742.	309	207	211.6	224.1	227.7	227.4	225.8	226.1	226.3	226.9
05S 42W 14DCC 01	aJ87			215							131.3	132.7	134.1

TABLE 2. -- DERIVED HYDROLOGIC DATA, CHEYENNE COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
01S 38W 02CDC 01	TO	23.7	-1	-1.1	.4			18	17	-6
01S 38W 08DCC 01	QA	13.0	-1	-.7	.7			21	20	-5
01S 38W 30BDC 01	QA	9.2	-2	-1.2	-.2	-.1		21	19	-10
01S 39W 25CBC 01	QA	9.6	-3	-1.1	.1	-.1		19	16	-16
02S 37W 33DCC 01		220.3			-2.3					
02S 39W 27BBB 01	QA	18.2	0	-.4	-.1			10	10	0
02S 40W 28DBA 01	TO	111.2	1	1.3	-.3		.1	28	29	4
02S 40W 32BCB 01	TO	130.3			1.9					
02S 41W 27BBD 01	TO	201.2	-1	-2.6	.3		-.1	42	41	-2
02S 41W 33DBC 01	TO	237.1	-2	-1.9	-.6	-.1	-.1	53	51	-4
03S 37W 19BBC 01	TO	231.0	-16	-11.2	-.2	-.4	-.5	110	94	-15
03S 37W 21DDD 01	TO	218.6	-25		-.4	-.6		118	93	-21
03S 37W 36ADB 01	TO	204.3	-29	-22.3	.2	-.7	-.9	125	96	-23
03S 38W 04BCC 01	TO	218.3			-.7					
03S 38W 21BCB 01	TO	245.7			-2.2					
03S 38W 25BBB 01		227.0			5.7					
03S 39W 04CCC 01	TO	71.2			-3.3					
03S 39W 20DAC 01	TO	140.6	-11	-.2	.4	-.3		69	58	-16
03S 39W 24DDD 01	TO	222.7	-18		.0	-.4		70	52	-26
03S 39W 32BDB 01	TO	153.1	-3	.5	5.3	-.1		73	70	-4
03S 40W 09BAA 02	QA,TO	19.7	0	.2	.0			2	2	0
03S 40W 35AAC 01	TO	97.3	-2	-1.2	-.4	-.1		49	47	-4
03S 41W 33ABB 01		161.8	2		.0	.1		20	22	10
03S 42W 04AAA 01	TO	230.9	-1		.0			25	24	-4
03S 42W 26CCD 01		205.8			6.2					
04S 37W 17AAC 01	TO	200.0	-13	-12.1	-3.0	-.3	-.5	138	125	-9
04S 37W 25DCA 01	TO	153.3	-6	-11.8	-.9	-.1	-.5	137	131	-4
04S 38W 04BAC 01	TO	220.5	-14	-13.5	7.8	-.4	-.6	120	107	-11
04S 38W 20CCC 01	TO	157.5	-7	-8.0	2.9	-.2	-.3	146	140	-4
04S 38W 21ADC 01	TO	190.1	-12	-2.1	-4.0	-.3	-.1	138	126	-9
04S 40W 22BCB 01	TO	126.4	-3	-2.5	-2.0	-.1	-.1	92	89	-3
04S 41W 16DAA 01	QA	15.9	-3	-1.7	-.1	-.1	-.1	25	22	-12
04S 41W 23AAA 01		122.2			-1.6					
04S 41W 25BCB 01	TO	143.3	-2	-3.7	-.4	-.1	-.2	70	68	-3
04S 41W 31ACA 01	TO	97.4	-3	-3.4	-.4	-.1	-.1	48	45	-6
04S 42W 02BCC 01		216.0			-2.3					
04S 42W 16CCD 01		89.9			-.7					
05S 37W 15DBB 01	TO	151.1	-14	-14.7	.2	-.4	-.6	160	146	-9
05S 38W 13BAD 01	TO	77.9	-4	-5.4	.2	-.1	-.2	146	142	-3
05S 38W 22ACB 01	TO	95.3	-5	-4.7	8.2	-.1	-.2	180	175	-3
05S 39W 06DAA 01		213.5			-.5					
05S 39W 11CBC 01	TO	149.3	-9	-9.2	-.3	-.2	-.4	151	142	-6
05S 39W 18CCC 01	TO	221.5	-37		-2.8	-.9		140	104	-26
05S 39W 25CDA 01	TO	132.6	-6	-7.6	2.5	-.1	-.3	168	162	-4
05S 40W 14BCD 01	TO	222.2	-35		-.3	-.9		138	103	-25
05S 41W 20DAA 01	TO	226.9	-20	-15.3	-.6	-.5	-.6	102	82	-20
05S 42W 14DCC 01		134.1			-1.4				81	

Clark County

TABLE 1. -- SELECTED HYDROLOGIC DATA, CLARK COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1940	1966	1984	1985	1986	1987	1988	1989	1990
*30S 23W 06AAA 01	aD39		2556.			140.6	141.5	141.7	142.0	144.6	146.7	143.1	145.1
33S 22W 30CBC 01	aD61						16.4	17.4	15.4	14.1	13.2	14.5	12.8

TABLE 2. -- DERIVED HYDROLOGIC DATA, CLARK COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	1966-90	1989-90	Average annual water-level change (feet/year) 1940-90	1966-90	Saturated thickness (feet) 1940	1990	Percentage change saturated thickness 1940-90
*30S 23W 06AAA 01		145.1		-4.5	-2.0		-.2			
33S 22W 30CBC 01		12.8			1.7					

Cloud County

TABLE 1. -- SELECTED HYDROLOGIC DATA, CLOUD COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1944	1974	1984	1985	1986	1987	1988	1989	1990
05S 02W 01BAC 01	aM70		1380.			43.9	43.6	43.7	42.5	40.8	40.0	41.7	26.0

TABLE 2. -- DERIVED HYDROLOGIC DATA, CLOUD COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-90	1974-90	1989-90	1944-90	1974-90	1944	1990	1944-90
05S 02W 01BAC 01		26.0		17.9	15.7		1.1			

Crawford County

TABLE 1. – SELECTED HYDROLOGIC DATA, CRAWFORD COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
29S 23E 24DBA 01	qM77		995.				304.5	306.4	305.0	305.3	305.6	306.9	307.8

TABLE 2. -- DERIVED HYDROLOGIC DATA, CRAWFORD COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
29S 23E 24DBA 01		307.8			-.9					

Decatur County

TABLE 1. – SELECTED HYDROLOGIC DATA, DECATUR COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
01S 26W 18DDB 01	aD59	QA	2413.	59	28	26.4		26.8	27.8	28.1	28.0	27.9	27.8
01S 29W 03DDB 01	aD65	QA	2539.	45	23	23.0		28.8	28.6	28.0	28.4	27.6	28.5
01S 29W 19BDD 01	qD59	QA	2572.	53	10	10.9	18.1	17.2	17.0	17.4	17.4	17.9	17.5
01S 30W 34DDD 01	aD62	QA	2610.	60	20	21.5	26.2	25.8	26.1	27.5	28.3	29.5	29.5
02S 26W 11BBA 01	aD66	TO	2509.	110	85	87.3	86.3	86.2	87.8	85.7	87.2	85.4	85.5
02S 28W 13ABA 01	aD62		2487.		27	26.2	26.3	26.6	28.2	29.1	28.7	26.8	28.0
02S 30W 23ADD 01	aD87		2835.								139.8	136.3	
03S 26W 30CBB 02	uD65	TO	2610.	142	119	119.4	125.9	125.8	125.5	125.3	125.1		124.4
03S 27W 32ABA 01	aD67	TO	2637.	120	74	74.8	73.4	72.6	72.1	69.9	71.1	70.6	70.2
03S 28W 06DCB 01	aD67	QA	2571.	55	34	25.6		37.7	37.1	30.6	35.4	35.4	35.9
03S 28W 32BCA 01	aD62	TO	2749.	180	133	133.6		130.6	135.3	130.8		130.5	132.5
03S 29W 12BBA 01	qD59	QA	2556.	55	26	24.9	25.3	24.4	25.0	25.4	25.3	22.4	25.2
03S 29W 17DCB 01	aD62	QA,TO	2587.	50	19	20.0	21.8	21.9	21.8	20.4	19.1	21.6	22.7
03S 29W 31DCC 01	aD62	QA	2633.	38	20	20.3	25.3	24.4	24.1	23.4	22.5	23.2	24.2
03S 30W 03CBA 01	aD64	TO	2807.	177	96	98.6		93.6			93.5	96.4	96.7
03S 30W 26BBB 01	aD62	QA	2629.	49	7	10.2		6.7	4.8	4.1	3.0	3.9	15.7
04S 26W 08DDD 01	aD59	QA	2455.	70	26	28.7	30.4	31.7	29.4	29.7	30.6	29.4	29.2
04S 26W 19DCA 01	aD62	QA	2464.	37	14	14.0		17.5	16.2	16.1	16.6	15.3	15.0
04S 27W 17DAC 01	aD62	TO	2648.	162	105	103.8		105.5	103.6	103.8		105.6	105.8
04S 27W 33BBB 01	aD62	QA	2528.	54	13	16.0	19.2	18.3	17.9	17.4	17.1	18.0	18.0
04S 28W 15AAA 01	aD53	TO	2700.	130	92	94.1					91.7	91.8	91.3
04S 28W 30DDD 01	aD62	TO	2726.	110	92	92.7	91.9	91.0	90.9	90.6	92.5	91.1	90.5
04S 30W 07BBB 01	aD64	QA	2697.	21	7	7.3		12.1		12.0	12.8	13.2	13.1
05S 26W 05ADD 01	aD62	TO	2607.	170	128	128.9	127.8	127.7	126.9	127.2	126.9	127.1	126.2
05S 26W 26DDA 01	aD62	QA	2437.	74	26	22.4	24.1	23.6	23.8	23.1	22.6	24.0	22.0
05S 26W 33DCC 01	aD62	QA	2475.	60	20	18.2	19.3	18.6	18.3	18.5	18.3	18.3	19.9
05S 27W 21CCA 01	aD64	TO	2675.		103	104.2			103.6	103.3	103.4	103.5	104.9
05S 28W 07BBC 01	aD64	QA	2644.	52	19	19.9	20.4	20.1	19.1	17.9	16.2	18.0	19.3
05S 28W 10BBB 01	aD64	QA	2600.	47	12	8.0	9.0	8.8	9.0	8.7	8.2	9.7	10.2
05S 28W 14ADD 01	aD62	TO	2723.	160	133	135.0	136.0	133.9	133.9	135.8	136.1	134.3	133.6
05S 28W 17DAC 01	aD62	TO	2734.	124	102	102.3		102.0	101.9	95.6	104.3	101.7	100.5
05S 29W 11BAA 01	aD64	QA	2670.	42	10	12.3	12.6	12.5	12.6	12.6	11.9		
05S 29W 22CBB 01	aD66	QA	2686.	46	11	12.6	13.1	13.8	12.4	13.1	13.9		13.5
05S 30W 15CCB 01	aD84		2878.					95.1	97.3	99.0	90.5	93.7	93.8
05S 30W 35BCB 01	aD66	TO	2891.	200	112	111.6	118.9	119.3	124.7	125.8	122.7	118.8	118.9

TABLE 2. -- DERIVED HYDROLOGIC DATA, DECATUR COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1950-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1950	Saturated thickness (feet) 1990	Percentage change saturated thickness 1950-90
01S 26W 18DDB 01	QA	27.8	0	-1.4	.1		-.1	31	31	0
01S 29W 03DDB 01	QA	28.5	-6	-5.5	-.9	-.1	-.2	22	17	-23
01S 29W 19BDD 01	QA	17.5	-8	-6.6	.4	-.2	-.3	43	36	-16
01S 30W 34DDD 01	QA	29.5	-10	-8.0	.0	-.3	-.3	40	31	-23
02S 26W 11BBA 01	TO	85.5	-1	1.8	-.1		.1	25	25	0
02S 28W 13ABA 01		28.0	-1	-1.8	-1.2		-.1			
02S 30W 23ADD 01										
03S 26W 30CBB 02	TO	124.4	-5	-5.0		-.1	-.2	23	18	-22
03S 27W 32ABA 01	TO	70.2	4	4.6	.4	.1	.2	46	50	9
03S 28W 06DCB 01	QA	35.9	-2	-10.3	-.5	-.1	-.4	21	19	-10
03S 28W 32BCA 01	TO	132.5	1	1.1	-2.0			47	48	2
03S 29W 12BBA 01	QA	25.2	1	-.3	-2.8			29	30	3
03S 29W 17DCB 01	QA,TO	22.7	-4	-2.7	-1.1	-.1	-.1	31	27	-13
03S 29W 31DCC 01	QA	24.2	-4	-3.9	-1.0	-.1	-.2	18	14	-22
03S 30W 03CBA 01	TO	96.7	-1	1.9	-.3		.1	81	80	-1
03S 30W 26BBB 01	QA	15.7	-9	-5.5	-11.8	-.2	-.2	42	33	-21
04S 26W 08DDD 01	QA	29.2	-3	-.5	.2	-.1		44	41	-7
04S 26W 19DCA 01	QA	15.0	-1	-1.0	.3			23	22	-4
04S 27W 17DAC 01	TO	105.8	-1	-2.0	-.2		-.1	57	56	-2
04S 27W 33BBB 01	QA	18.0	-5	-2.0	.0	-.1	-.1	41	36	-12
04S 28W 15AAA 01	TO	91.3	1	2.8	.5		.1	38	39	3
04S 28W 30DDD 01	TO	90.5	2	2.2	.6	.1	.1	18	20	11
04S 30W 07BBB 01	QA	13.1	-6	-5.8	.1	-.1	-.2	14	8	-43
05S 26W 05ADD 01	TO	126.2	2	2.7	.9	.1	.1	42	44	5
05S 26W 26DDA 01	QA	22.0	4	.4	2.0	.1		48	52	8
05S 26W 33DCC 01	QA	19.9	0	-1.7	-1.6		-.1	40	40	0
05S 27W 21CCA 01	TO	104.9	-2	-.7	-1.4	-.1				
05S 28W 07BBC 01	QA	19.3	0	.6	-1.3			33	33	0
05S 28W 10BBB 01	QA	10.2	2	-2.2	-.5	.1	-.1	35	37	6
05S 28W 14ADD 01	TO	133.6	-1	1.4	.7		.1	27	26	-4
05S 28W 17DAC 01	TO	100.5	2	1.8	1.2	.1	.1	22	24	9
05S 29W 11BAA 01	QA									
05S 29W 22CBB 01	QA	13.5	-3	-.9		-.1		35	33	-6
05S 30W 15CCB 01		93.8			-.1					
05S 30W 35BCB 01	TO	118.9	-7	-7.3	-.1	-.2	-.3	88	81	-8

Douglas County

TABLE 1. -- SELECTED HYDROLOGIC DATA, DOUGLAS COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
12S 20E 07CBC 01	qM66		826.			14.0	13.5	10.4	10.2	8.4	13.6	15.8	15.0
15S 19E 15AAD 01	aM72		1120.				44.4	43.7	39.5	39.4	40.6	42.0	42.9

TABLE 2. -- DERIVED HYDROLOGIC DATA, DOUGLAS COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
12S 20E 07CBC 01		15.0		-1.0	.8					
15S 19E 15AAD 01		42.9			-.9					

Edwards County

TABLE 1. – SELECTED HYDROLOGIC DATA, EDWARDS COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
24S 16W 12CBC 01	aJ70	QU	2055.	130	5	9.2	23.1	24.9	24.4	24.0	21.7	24.3	26.7
24S 17W 20ADC 01	aJ73	QU	2126.	121	3	15.8	26.9	27.9	28.6	28.6		29.7	30.6
24S 17W 24DDD 01	qJ73	QU	2100.	170	15	13.3	25.0	29.4	30.0	29.5	28.6	30.8	32.1
24S 18W 13DAC 01	aJ86		2130.	115					28.1	28.7	27.9	29.6	30.3
24S 18W 17ABD 01	aJ73	QU	2147.	92	27	18.8	28.7	30.1	29.8	29.7	28.4		30.2
24S 18W 28DAC 01	aJ73	QU	2158.	98	25	16.6	31.2	32.6	34.1	33.8	34.7	33.1	34.5
24S 18W 36DDC 01	aJ72	QU	2149.	119	28	24.2	36.7	38.3	38.3		34.9	38.4	35.7
24S 19W 34ADD 01	qJ61	QA	2160.		8	7.0	9.2	8.8	8.9	8.6	9.0	9.6	8.8
25S 16W 02BBB 01	aJ73	QU	2069.	184	6	6.6	23.8	25.0	25.3	24.9	20.4	24.4	25.9
25S 16W 27AAC 01	aJ73	QU	2063.	188	3	6.1	16.4	16.9	17.7	16.8	16.2	17.7	17.4
25S 16W 31DCC 01	qJ81	TO					19.1	20.7	20.6	19.3	15.2	19.4	19.1
25S 17W 01DAB 01	aJ45	QU	2102.	162	12	8.8	25.0	26.6	27.1	26.6	23.5	26.9	28.2
25S 17W 17AAC 01	aJ73	QU	2129.	74	14	14.4	28.2	28.6	30.1	29.5	27.7	30.4	31.1
25S 17W 31BBD 01	aJ64	QU	2148.	178	22	11.1	22.4		24.2	24.0	22.7	24.5	25.1
25S 18W 09AAA 01	qJ73	QU	2161.	131	21	15.6	27.7	29.1	29.6	29.3	26.0	28.9	30.4
25S 18W 20AAB 01	aJ88											36.8	37.9
25S 18W 33CDC 01	aJ72	QU	2182.	172	29	23.2	28.9	28.0	30.5	30.6	30.2	31.4	32.3
25S 19W 08BDD 01	aJ84							6.1	6.6	5.7	3.9	6.4	5.8
25S 19W 26DDB 01	aJ73	QU	2206.	146	31	30.1	36.2	37.4	38.8	37.9		41.8	37.6
25S 19W 31CAB 01	aJ73	QU	2220.		17	15.2		20.0	19.5	18.3	17.7	18.5	18.7
25S 20W 03BCD 01	aJ84		2237.					29.5	28.0	28.9	27.4	26.9	27.5
25S 20W 34CCC 01	aJ45		2219.						8.2	8.2	7.0	8.3	7.6
26S 16W 10CCC 01	aJ73	QU	2065.	220	5	3.8	9.5	11.2	9.6	9.8	7.6	10.4	9.0
26S 16W 31CCA 01	aJ73	QU	2110.	285	25	19.6	31.7	32.7	31.4	32.1	29.3	33.0	32.0
26S 16W 34ABC 01	aJ66	QU	2079.	289	25	6.8	22.1	23.4	21.3	22.8	18.6	23.1	22.3
26S 17W 04AAC 01	aJ72	QU	2146.	216	44			39.3	43.4		41.6		
26S 17W 14BAA 01	aJ73	QU	2109.	194	16	20.7	24.0	24.4	25.6	24.6	20.5	26.9	23.5
26S 17W 33DDB 01	aJ73	QU	2127.	227	22	12.4	23.1	23.9	22.7	23.5	20.2	23.6	23.5
26S 18W 15DCB 01	aJ69	QU	2174.	229	33	22.0	28.8	30.3	30.5	30.4	28.9	30.6	31.6
26S 18W 31CCC 01	aJ73		2215.	195	47	33.6	43.4	45.1	45.5	45.8	44.5	46.8	47.6
26S 19W 12ABB 02	qJ79		2210.	155	38		49.1	52.1	50.3	49.9	42.5	44.5	49.0
26S 19W 16BCB 01	aJ66	QU	2231.	176	35	29.4	35.6	37.2	37.8	38.3	36.9	38.7	39.1
26S 19W 31BAC 01	aJ84		2257.	187					40.2	43.8		44.5	
26S 19W 34BBD 01	aJ73	QU	2232.	187	36	30.8	36.6	37.7	38.1	38.2	37.6	38.7	40.6
26S 20W 20BBC 01	aJ85		2251.		19			23.5	11.4	11.4	10.0	12.5	11.3

TABLE 2. -- DERIVED HYDROLOGIC DATA, EDWARDS COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
24S 16W 12CBC 01	QU	26.7	-22	-17.5	-2.4	-.6	-.7	125	103	-18
24S 17W 20ADC 01	QU	30.6	-28	-14.8	-.9	-.7	-.6	118	90	-24
24S 17W 24DDD 01	QU	32.1	-17	-18.8	-1.3	-.4	-.8	155	138	-11
24S 18W 13DAC 01		30.3			-.7				85	
24S 18W 17ABD 01	QU	30.2	-3	-11.4		-.1	-.5	65	62	-5
24S 18W 28DAC 01	QU	34.5	-10	-17.9	-1.4	-.3	-.7	73	64	-12
24S 18W 36DDC 01	QU	35.7	-8	-11.5	2.7	-.2	-.5	91	83	-9
24S 19W 34ADD 01	QA	8.8	-1	-1.8	.8		-.1			
25S 16W 02BBB 01	QU	25.9	-20	-19.3	-1.5	-.5	-.8	178	158	-11
25S 16W 27AAC 01	QU	17.4	-14	-11.3	.3	-.4	-.5	185	171	-8
25S 16W 31DCC 01	TO	19.1			.3					
25S 17W 01DAB 01	QU	28.2	-16	-19.4	-1.3	-.4	-.8	150	134	-11
25S 17W 17AAC 01	QU	31.1	-17	-16.7	-.7	-.4	-.7	60	43	-28
25S 17W 31BBD 01	QU	25.1	-3	-14.0	-.6	-.1	-.6	156	153	-2
25S 18W 09AAA 01	QU	30.4	-9	-14.8	-1.5	-.2	-.6	110	101	-8
25S 18W 20AAB 01		37.9			-1.1					
25S 18W 33CDC 01	QU	32.3	-3	-9.1	-.9	-.1	-.4	143	140	-2
25S 19W 08BDD 01		5.8			.6					
25S 19W 26DDB 01	QU	37.6	-7	-7.5	4.2	-.2	-.3	115	108	-6
25S 19W 31CAB 01	QU	18.7	-2	-3.5	-.2	-.1	-.1			
25S 20W 03BCD 01		27.5			-.6					
25S 20W 34CCC 01		7.6			.7					
26S 16W 10CCC 01	QU	9.0	-4	-5.2	1.4	-.1	-.2	215	211	-2
26S 16W 31CCA 01	QU	32.0	-7	-12.4	1.0	-.2	-.5	260	253	-3
26S 16W 34ABC 01	QU	22.3	3	-15.5	.8	.1	-.6	264	267	1
26S 17W 04AAC 01	QU									
26S 17W 14BAA 01	QU	23.5	-8	-2.8	3.4	-.2	-.1	178	171	-4
26S 17W 33DDB 01	QU	23.5	-2	-11.1	.1	-.1	-.5	205	204	0
26S 18W 15DCB 01	QU	31.6	1	-9.6	-1.0		-.4	196	197	1
26S 18W 31CCC 01		47.6	-1	-14.0	-.8		-.6	148	147	-1
26S 19W 12ABB 02		49.0	-11		-4.5	-.3		117	106	-9
26S 19W 16BCB 01	QU	39.1	-4	-9.7	-.4	-.1	-.4	141	137	-3
26S 19W 31BAC 01										
26S 19W 34BBD 01	QU	40.6	-5	-9.8	-1.9	-.1	-.4	151	146	-3
26S 20W 20BBC 01		11.3	8		1.2	.2				

Ellis County

TABLE 1. – SELECTED HYDROLOGIC DATA, ELLIS COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
*13S 18W 29CCC 01	qM82		2000.				22.0	21.3	21.6	21.7	19.8	20.9	21.1
14S 18W 12AAD 01	qM76						26.9	26.5	26.3	26.4	24.9	25.7	26.3
15S 18W 25CCD 01	qM82						16.7	16.4	15.3	15.7	15.6	16.2	15.9
15S 19W 25CAB 01	qM82		1937.				16.1	16.2	16.1	16.4	16.0	16.1	16.1

TABLE 2. – DERIVED HYDROLOGIC DATA, ELLIS COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
*13S 18W 29CCC 01		21.1			-.2					
14S 18W 12AAD 01		26.3			-.6					
15S 18W 25CCD 01		15.9			.3					
15S 19W 25CAB 01		16.1			.0					

Ellsworth County

TABLE 1. -- SELECTED HYDROLOGIC DATA, ELLSWORTH COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
17S 09W 20BCD 01	qM61						24.9	21.7	21.9	23.1	20.3	23.0	23.8
17S 09W 21BCC 01	qM66		1775.			92.2	78.1	78.4	73.8	76.2	73.3	77.7	77.0
17S 09W 28CBB 02	qM66						38.5	37.7	36.6	36.8	35.0	35.2	36.7
17S 09W 31AAB 01	qM66		1762.			99.6	73.5	76.2	61.7	69.4	65.8	68.1	49.0
17S 09W 31ADC 01	qM66						66.9	67.1	60.6	65.5	59.6	63.5	68.8

TABLE 2. -- DERIVED HYDROLOGIC DATA, ELLSWORTH COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-90	1966-90	1989-90	1950-90	1966-90	1950	1989	1950-90
17S 09W 20BCD 01		23.8			-.8					
17S 09W 21BCC 01		77.0		15.2	.7		.6			
17S 09W 28CBB 02		36.7			-1.5					
17S 09W 31AAB 01		49.0		50.6	19.1		2.1			
17S 09W 31ADC 01		68.8			-5.3					

Finney County

TABLE 1. -- SELECTED HYDROLOGIC DATA, FINNEY COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
21S 29W 36CCB 01	aJ39	QA	2611.	23	17	17.7	22.0	21.6					
21S 30W 05BBB 01	aJ40	QU,TO	2863.	78	35	28.6	38.1	37.5	36.7	38.3	36.0	36.2	35.6
21S 31W 26CCC 01	au85	QU,TO	2900.		75			73.8	73.9	74.2	74.3	75.2	
21S 32W 08ABD 01	au58	QU	2910.	150	36	41.3	97.2	100.3	100.6	103.8	104.5	115.6	
21S 32W 20CBD 01	aJ64	QU,TO	2898.	200	31	45.1		97.6	98.4		105.2	109.0	110.2
21S 32W 26DAA 01	aJ61	QU,TO	2946.	171	96	98.8	105.6	107.0	105.7	107.3	108.6	108.5	109.5
21S 33W 07DDA 01	aJ61	QU	2918.	95	33	48.3	76.3	77.2	79.2	80.0	81.4	82.5	
21S 33W 29BBC 01	aJ85		2891.	106	16			79.1	79.7	81.4	81.5	84.7	85.9
†21S 34W 14DBB 01	aJ61	KN	2947.	97	56	69.0	105.5	103.6	101.7	104.2	103.4		106.4
21S 34W 16AAD 02	aJ62	QU,TO	2981.	120	80	95.3	94.7	92.8	93.2	93.0	92.8	93.2	93.1
22S 27W 14ADC 01	aJ70	KJ	2458.				180.9	179.4	181.4	177.3	175.2	181.2	178.4
22S 31W 08CCC 01	aJ85		2911.	171	81			99.7	98.2	99.0	99.1	100.8	102.7
22S 31W 16ADD 01	aJ61	QU,TO	2904.	181	84	85.5	103.4	104.9	105.5	107.0	107.2	108.3	110.0
22S 31W 29DCC 01	aJ85		2904.		85			108.2	105.5				
22S 32W 08ACB 01	aJ60	QU,TO	2884.	224	33	40.0	84.3	85.9	87.5	90.4	94.8	95.5	99.2
22S 32W 21CDC 01	aJ58	QU,TO	2903.	198	58	66.4	120.8	123.2	123.8	128.0	130.1	134.5	134.1
22S 33W 22BAA 01	qJ60	QU,TO	2900.	190	40	47.1	94.8	98.6	105.8	114.3	114.2	117.7	
22S 33W 36AAA 02	qJ58	QU,TO	2860.	200	14	21.5	70.0	66.7	62.9	63.1	61.4	60.2	55.6
†22S 34W 08BCB 01	aJ61	KN	2987.	132	87	108.9	135.8	133.4	132.8	134.1	134.4	134.7	134.9
22S 34W 10AAA 01	aJ61	QU,TO	2933.	153	43	59.2	110.3	112.0	110.7	107.9	109.1	107.5	107.6
22S 34W 18CDD 01	aJ85		2984.	234	67			148.3	147.9	149.5	149.8	151.3	148.4
22S 34W 26CCC 01	qJ85		2939.						165.4	167.7	168.0	171.0	172.8
23S 27W 22DAB 01	aJ76	TO,TO	2654.		82		81.1	86.0	80.5	81.4	79.4	82.6	81.5
23S 28W 22DCD 01	aJ76	QU,TO	2729.		74		74.8	75.0	75.0	75.1	74.9	75.6	75.1
23S 28W 34DDC 01	aJ76	QU,TO	2738.		76		91.3	92.0	92.5	92.1	91.6	93.2	92.9
23S 29W 30BBB 01	aJ76	QU,TO	2794.		75		78.1	78.2	78.5	78.8	79.0	79.0	84.4
23S 29W 34CDD 01	aJ66	TO	2772.	147	84	84.0	89.3	90.2	90.3	90.5	89.4	91.0	89.9
23S 30W 04ACC 01	aJ76	QU,TO	2846.		65		68.3	67.5	67.6	68.2	68.3	69.2	68.6
23S 30W 19CCB 01	aJ61	QU,TO	2862.	142	89	82.2	86.3	86.9	87.4	87.9	88.5	89.1	87.4
23S 31W 03DCD 01	aJ61	QU,TO	2877.	167	72	83.0		105.7	107.3	107.8	107.1	108.5	116.9
23S 31W 17ABA 01	aJ85		2900.	210	90			106.3	107.3	108.5	108.6	109.9	112.6
23S 31W 35CCC 01	aJ61	QU,TO	2875.	200	95	96.7		113.7	114.6	116.5	115.5	119.5	
23S 32W 31CBD 01	aJ58	QU,TO	2876.	324	41	49.4	99.1	94.5		90.2	84.8	85.5	85.8
23S 33W 17BBB 01	aJ58	QU,TO	2904.	340	26	60.3	153.4	150.6	144.8	150.4	141.5		145.3
23S 33W 26ABB 01	aJ58	QU,TO	2890.	327	42	50.4	118.8	114.7	105.6	109.4	109.3	111.0	106.5
23S 33W 28CDC 01	qJ58	TO,TO	2904.		46	61.2	127.2	118.5	109.6	111.6	104.9	112.4	104.3
23S 34W 17CCC 01	aJ58	QU,TO	2974.	349	46	70.0	159.3	153.2	138.3	141.6	145.0	139.6	130.8
*23S 34W 21DDC 01	mJ58	QU,TO	2961.	356	41	71.6	151.2	141.9	130.2	128.6	124.8	129.5	123.4
24S 31W 27CCB 01	qD42	QU,TO	2883.	295	114	119.5	129.9	131.0	130.0	131.3	131.1	142.0	142.0
24S 32W 03DAC 01	qJ34	QU,TO	2881.	299	70	80.9	107.8	109.7	110.0	110.9	111.2	112.5	111.8
24S 32W 35DD 01	aD62	QU,TO	2811.	256	21	27.2					39.2	43.4	44.4
*24S 33W 09CCD 01	mJ77	QU	2865.	355	11		71.2	66.7	57.2	55.1	46.7	52.1	48.5
*24S 33W 09CCD 02	mJ77	QA	2865.				35.0	27.5	16.5	15.1	12.3	13.0	14.6
24S 33W 09CCD 03	mJ80	KD	2865.				71.4	71.3	62.7	65.8	59.6	60.4	60.3
24S 33W 18BDB 02	aJ79		2878.	338	8		93.0	94.2	67.4	71.3	60.7	70.3	94.2
24S 33W 19DBB 02	aJ77		2927.	447	57		134.3	134.6	114.3	114.0	108.2	112.8	135.6
24S 33W 22BCC 01	qD75		2888.		38		82.3	80.9	73.7	73.2	71.2	70.7	71.1

TABLE 1, con't. -- SELECTED HYDROLOGIC DATA, FINNEY COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
24S 33W 22DCA 01	qD73	QU,TO	2905.	405	71		116.4	117.6		111.5	107.3	108.7	109.0
24S 33W 28DAA 01	qD73	QU,TO	2886.	386	34		98.6	103.8	99.7	100.0	96.0	96.2	
24S 33W 34CAC 01	aD74	QU,TO	2910.	435	60		121.4	127.9	126.2	127.3	123.6	124.7	127.9
24S 34W 01BCB 01	aJ61	QU,TO	2894.	316	12	24.7	81.6	76.7	65.6	66.4	58.9	62.5	64.2
25S 31W 21CAB 01	aJ61	QU	2788.	228	27	20.4					35.1	45.5	46.1
25S 31W 35DBA 01	aD58	QU	2801.	256	52	49.9	72.5		77.0			75.4	83.6
25S 32W 22DBC 01	aD68	QU,TO	2865.	373	65	62.0	92.2	95.8	98.7	101.3	103.1	116.7	131.0
25S 32W 31DDC 01	qD83		2871.				99.8				111.5	115.7	117.6
25S 32W 35ADB 01	aD60	QU,TO	2857.	417	67	68.0	94.0	97.1	100.0	102.5	104.3	107.6	109.8
25S 33W 03BCC 01	qD75		2902.		47		51.6	52.4		52.9	53.0	54.8	52.8
25S 33W 05ABD 01	qD73	QU,TO	2920.	510	52		113.3	121.3	121.3	123.2	122.0	124.7	129.4
25S 33W 09ABD 01	qD73	QU,TO	2909.	514	50		109.6	118.1	118.4	120.5	119.4	120.7	125.3
25S 33W 15DAC 01	qD72	QU,TO	2915.	535	71		129.3	137.2	138.7	140.1	140.7	142.9	146.5
25S 33W 16DCC 01	qD75		2920.		62		87.7	89.4	90.1	90.2	92.5	92.5	94.1
25S 33W 17DBD 01	qD73	QU,TO	2940.	530	78		126.9	134.1	135.1	136.3	138.2	142.9	148.1
25S 33W 33CDA 01	aJ85		2915.	460	65			113.6	117.6	122.8	124.1	131.7	132.1
25S 33W 35DBD 01	aJ74	QU,TO	2894.	474	63			105.9	109.5	114.2		124.3	128.0
25S 34W 06AAA 01	aJ75	QU,TO	2972.	397	52		102.3	107.2	109.3	110.0	111.4	113.4	117.6
25S 34W 10ABB 01	qJ75	QU,TO	2962.	412	62		93.3	98.0	95.3	100.5	103.0	103.6	106.1
25S 34W 34DBD 01	aJ70	QU,TO	2945.	440	65	70.0	108.8	114.7	117.4	126.7	122.4	128.1	146.5
26S 31W 01DDA 01	aD59	QU,TO	2811.	301	75	74.0	99.3	101.9	104.7	107.1	108.4	111.8	113.6
26S 31W 06BBB 01	aD61	QU,TO	2832.	327	55	55.6	82.4	85.3	88.0	90.4	92.3	95.6	97.5
26S 31W 31CDC 01	aJ61	QU,TO	2841.	496	83	86.1	128.6	132.0	135.1	138.5	139.9	144.6	145.7
26S 31W 36CAB 01	aD61	QU,TO	2817.	332	82	80.3	120.1	123.1	126.0	127.4	128.7	131.8	134.3
26S 32W 22ABB 01	aD62	QU,TO	2899.	564	113	115.6	143.3	145.7	147.3	149.3	150.3	154.3	155.1
26S 33W 17DBD 01	aJ81		2900.	520	60		104.1	107.6	111.0	114.4	117.0	121.4	124.6
26S 33W 26ABB 01	qJ61	QU,TO	2929.	554	113	118.3	154.9	159.4	162.4	166.6	170.5	175.3	178.7
26S 34W 05ADC 01	aJ81		2960.		72		110.9	116.4	114.7	123.2		130.6	132.4
26S 34W 21BBD 01	aJ81		2955.		77		122.4	126.2	130.2	133.4	137.1	143.2	146.7
26S 34W 30BD 01	aJ61	QU	3005.	455	115	132.6	169.4	172.5	177.7	182.1	187.1		

TABLE 2. -- DERIVED HYDROLOGIC DATA, FINNEY COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1940-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1940	Saturated thickness (feet) 1990	Percentage change saturated thickness 1940-90
21S 29W 36CCB 01	QA									
21S 30W 05BBB 01	QU,TO	35.6	-1	-7.0	.6		-.3	43	42	-2
21S 31W 08ABB 01	QU,TO									
21S 31W 26CCC 01	QU,TO									
21S 32W 08ABD 01	QU									
21S 32W 20CBD 01	QU,TO	110.2	-79	-65.1	-1.2	-1.6	-2.7	169	90	-47
21S 32W 26DAA 01	QU,TO	109.5	-14	-10.7	-1.0	-.3	-.4	75	62	-17
21S 33W 07DDA 01	QU									
21S 33W 29BBC 01		85.9	-70		-1.2	-1.4		90	20	-78
21S 34W 14DBB 01	KN	106.4	-50	-37.4		-1.0	-1.6	41	-9	-122
21S 34W 16AAD 02	QU,TO	93.1	-13	2.2	.1	-.3	.1	40	27	-33
22S 27W 14ADC 01	KJ	178.4			2.8					
22S 31W 08CCC 01		102.7	-22		-1.9	-.4		90	68	-24
22S 31W 16ADD 01	QU,TO	110.0	-26	-24.5	-1.7	-.5	-1.0	97	71	-27
22S 31W 29DCC 01										
22S 32W 08ACB 01	QU,TO	99.2	-66	-59.2	-3.7	-1.3	-2.5	191	125	-35
22S 32W 21CDC 01	QU,TO	134.1	-76	-67.7	.4	-1.5	-2.8	140	64	-54
22S 33W 22BAA 01	QU,TO									
22S 33W 36AAA 02	QU,TO	55.6	-42	-34.1	4.6	-.8	-1.4	186	144	-23
22S 34W 08BCB 01	KN	134.9	-48	-26.0	-.2	-1.0	-1.1	45	-3	-107
22S 34W 10AAA 01	QU,TO	107.6	-65	-48.4	-.1	-1.3	-2.0	110	45	-59
22S 34W 18CDD 01		148.4	-81		2.9	-1.6		167	86	-49
22S 34W 26CCC 01		172.8			-1.8					
23S 27W 12CCC 01	QU,TO									
23S 27W 22DAB 01	TO,TO	81.5	1		1.1					
23S 28W 22DCD 01	QU,TO	75.1	-1		.5					
23S 28W 34DDC 01	QU,TO	92.9	-17		.3	-.3				
23S 29W 30BBB 01	QU,TO	84.4	-9		-5.4	-.2				
23S 29W 34CDD 01	TO	89.9	-6	-5.9	1.1	-.1	-.2	63	57	-10
23S 30W 04ACC 01	QU,TO	68.6	-4		.6	-.1				
23S 30W 19CCB 01	QU,TO	87.4	2	-5.2	1.7		-.2	53	55	4
23S 31W 03DCD 01	QU,TO	116.9	-45	-33.9	-8.4	-.9	-1.4	95	50	-47
23S 31W 17ABA 01		112.6	-23		-2.7	-.5		120	97	-19
23S 31W 35CCC 01	QU,TO									
23S 32W 11ADC 01	QU,TO									
23S 32W 31CBD 01	QU,TO	85.8	-45	-36.4	-.3	-.9	-1.5	283	238	-16
23S 33W 17BBB 01	QU,TO	145.3	-119	-85.0		-2.4	-3.5	314	195	-38
23S 33W 26ABB 01	QU,TO	106.5	-65	-56.1	4.5	-1.3	-2.3	285	221	-22
23S 33W 28CDC 01	TO,TO	104.3	-58	-43.1	8.1	-1.2	-1.8			
23S 34W 17CCC 01	QU,TO	130.8	-85	-60.8	8.8	-1.7	-2.5	303	218	-28
*23S 34W 21DDC 01	QU,TO	123.4	-82	-51.8	6.1	-1.6	-2.2	315	233	-26
24S 31W 27CCB 01	QU,TO	142.0	-28	-22.5	.0	-.6	-.9	181	153	-15
24S 32W 03DAC 01	QU,TO	111.8	-42	-30.9	.7	-.8	-1.3	229	187	-18
24S 32W 35DD 01	QU,TO	44.4	-23	-17.2	-1.0	-.5	-.7	235	212	-10
*24S 33W 09CCD 01	QU	48.5	-38		3.6	-.8		344	307	-11

TABLE 2, con't. -- DERIVED HYDROLOGIC DATA, FINNEY COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	1966-90	1989-90	Average annual water-level change (feet/year) 1940-90	1966-90	Saturated thickness (feet) 1940	1990	Percentage change saturated thickness 1940-90
*24S 33W 09CCD 02	QA	14.6			-1.6					
24S 33W 09CCD 03	KD	60.3			.1					
24S 33W 18BDB 02		94.2	-86		-23.9	-1.7		330	244	-26
24S 33W 19DBB 02		135.6	-79		-22.8	-1.6		390	311	-20
24S 33W 22BCC 01		71.1	-33		-.4	-.7				
24S 33W 22DCA 01	QU,TO	109.0	-38		-.3	-.8		334	296	-11
24S 33W 28DAA 01	QU,TO									
24S 33W 34CAC 01	QU,TO	127.9	-68		-3.2	-1.4		375	307	-18
24S 34W 01BCB 01	QU,TO	64.2	-52	-39.5	-1.7	-1.0	-1.6	304	252	-17
25S 31W 21CAB 01	QU	46.1	-19	-25.7	-.6	-.4	-1.1	201	182	-9
25S 31W 35DBA 01	QU	83.6	-32	-33.7	-8.2	-.6	-1.4	204	172	-16
25S 32W 22DBC 01	QU,TO	131.0	-66	-69.0	-14.3	-1.3	-2.9	308	242	-21
25S 32W 31DDC 01		117.6			-1.9					
25S 32W 35ADB 01	QU,TO	109.8	-43	-41.8	-2.2	-.9	-1.7	350	307	-12
25S 33W 03BCC 01		52.8	-6		2.0	-.1				
25S 33W 05ABD 01	QU,TO	129.4	-77		-4.7	-1.5		458	381	-17
25S 33W 09ABD 01	QU,TO	125.3	-75		-4.6	-1.5		464	389	-16
25S 33W 15DAC 01	QU,TO	146.5	-76		-3.6	-1.5		464	389	-16
25S 33W 16DCC 01		94.1	-32		-1.6	-.6				
25S 33W 17DBD 01	QU,TO	148.1	-70		-5.2	-1.4		452	382	-15
25S 33W 33CDA 01		132.1	-67		-.4	-1.3		395	328	-17
25S 33W 35DBD 01	QU,TO	128.0	-65		-3.7	-1.3		411	346	-16
25S 34W 06AAA 01	QU,TO	117.6	-66		-4.2	-1.3		345	279	-19
25S 34W 10ABB 01	QU,TO	106.1	-44		-2.5	-.9		350	306	-13
25S 34W 34DBD 01	QU,TO	146.5	-82	-76.5	-18.4	-1.6	-3.2	375	294	-22
26S 31W 01DDA 01	QU,TO	113.6	-39	-39.6	-1.8	-.8	-1.7	226	187	-17
26S 31W 06BBB 01	QU,TO	97.5	-43	-41.9	-1.9	-.9	-1.7	272	230	-15
26S 31W 31CDC 01	QU,TO	145.7	-63	-59.6	-1.1	-1.3	-2.5	413	350	-15
26S 31W 36CAB 01	QU,TO	134.3	-52	-54.0	-2.5	-1.0	-2.3	250	198	-21
26S 32W 22ABB 01	QU,TO	155.1	-42	-39.5	-.8	-.8	-1.6	451	409	-9
26S 33W 17DBD 01		124.6	-65		-3.2	-1.3		460	395	-14
26S 33W 26ABB 01	QU,TO	178.7	-66	-60.4	-3.4	-1.3	-2.5	441	375	-15
26S 34W 05ADC 01		132.4	-60		-1.8	-1.2				
26S 34W 21BBD 01		146.7	-70		-3.5	-1.4				
26S 34W 30BD 01	QU									

Ford County

TABLE 1. – SELECTED HYDROLOGIC DATA, FORD COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
25S 22W 20AAA 01	qD39	TO	2437.		65	62.6	60.7	60.5	60.4	60.1	59.8	59.5	59.2
25S 22W 27CCD 01	qD70	KD	2432.				123.1	127.7	119.8	129.3	128.5	137.4	133.7
25S 23W 11CCC 01	aD68	KD	2424.				86.6	88.2	78.6	63.2	53.4	95.9	93.0
25S 23W 12BBB 01	qD72	KD	2390.				152.6	160.1	152.7	158.4	157.4	156.9	155.0
*25S 23W 14ADD 01	aD69	KD	2452.				208.8		217.2		213.5	209.9	
*25S 25W 32CDD 01	aJ81	QU,KD	2607.				186.9	189.0	186.7	188.2	187.9	193.4	194.1
25S 25W 32DAD 01	aJ85		2593.					73.6	73.8	73.8	73.5	74.0	74.3
25S 26W 25CDD 01	aJ77	TO	2623.	187	79		76.3		77.0	72.0	76.7	79.0	84.5
25S 26W 30ABC 01	aJ77	TO	2679.	225	104			111.5	111.1	110.9	111.3		115.4
26S 21W 17DBC 01	qD73	KD	2348.				60.8	61.5	60.7	58.7	60.8	63.6	62.0
26S 21W 23ADA 01	qD38	QA	2262.		6	7.3	8.7	8.7	8.2	7.4	7.0	8.2	8.9
26S 21W 25CCC 01	aJ85		2270.					7.2	6.3	5.8	5.2	6.8	6.2
26S 22W 21DCD 01	aJ82		2377.					44.1	40.6	41.5	38.1	43.6	40.3
26S 23W 02ABB 01	aJ85		2451.					78.3	79.5	79.2	79.9	79.2	81.2
26S 23W 10DAD 01	qD68		2463.				178.8	183.2	177.8	180.0	176.9	176.5	177.2
26S 24W 29DDD 01	qD68	TO	2575.		130		134.7	138.4	137.3	137.2	139.9	142.5	139.4
26S 24W 31DDA 01	qD68	TO	2463.		11		14.9	17.1	17.0	16.1	14.0	18.3	18.9
26S 24W 32CBA 01	aJ62	TO	2468.		20		22.4	24.5	24.1	23.3	21.7	23.8	
26S 24W 33CDA 01	aD68	TO	2466.		26		30.3	32.1	31.2	27.8	25.6	32.6	33.0
26S 25W 16DCC 01	aJ80		2619.				140.9	143.2		143.5	139.9	142.4	141.7
26S 26W 18CCB 01	aJ81		2558.				9.6	9.6	9.4	10.1	8.9	11.9	10.6
*26S 26W 32DCC 01	qD77		2616.		74		84.1	85.3	86.3	85.7		87.7	89.2
26S 26W 36DCC 01	aJ77	TO	2543.	168	31		39.0	41.5	42.3	47.4	41.7	41.8	43.3
27S 21W 10DBB 01	aJ85		2291.					7.6	7.0		6.2	7.2	6.7
27S 22W 09DAB 01	aJ82		2418.				55.9	58.3		59.5	59.5	64.6	64.2
27S 23W 24BCB 01	aD74	KD	2395.				30.3	48.1	41.1	38.6	43.6	42.0	53.1
27S 23W 28AAA 01	aJ81		2421.				29.5	37.7	37.3	35.9	37.3		
*27S 23W 36CCC 01	aJ77	TO	2428.	147	46		44.0		45.4	45.5	45.5	46.5	46.8
27S 24W 03BBD 01	aD68	TO	2455.		19		24.3	24.3	24.5	24.5	24.2	24.4	24.8
*27S 24W 03CDD 01	qD73	TO	2445.				11.3	10.9	11.9	11.5	10.7	14.7	13.8
27S 24W 04BBC 01	qD68	TO	2453.		11		13.8	15.0	15.1	14.4	14.2	16.4	16.7
27S 24W 09AAD 01	aD72	TO	2448.		10		19.3	19.8	20.6	20.1	20.2	23.7	23.2
27S 24W 16BDB 01	qD73		2515.				74.5	74.9	76.1	75.8	76.2	78.1	78.6
27S 24W 26DAA 01	aJ77	TO	2512.	191	79		89.5	90.1	90.7	91.1	92.4	92.4	
27S 25W 09ACA 01	aJ81		2546.				65.4		68.6	68.9	68.0	69.6	68.7
27S 25W 25BBB 01	aJ81		2574.				114.2	115.8	116.4	117.2	117.9	119.6	119.8
28S 21W 10DDD 01	aJ77		2349.		41		42.9	43.7	42.8	42.1	41.6	44.2	42.9
28S 21W 23DBC 01	aJ77	TO					76.0	77.0		74.6	73.8	76.7	76.0
28S 21W 25ABB 01	aJ81		2365.	149			71.4	72.3	71.1	70.5	70.1	72.1	71.2
28S 22W 05ADD 01	aJ81		2370.					18.4	17.4	17.6	18.0	19.2	19.3
28S 22W 12CAC 01	aJ76	TO	2405.	82	66		60.4	60.9	61.5	61.2	61.1	62.8	62.8
28S 22W 32BAB 01	aJ77	TO	2485.	161	121		122.6	123.9	127.1	129.7	123.2		132.8
*28S 23W 18BAB 01	aJ81		2547.	239			134.3	136.0	136.5	136.6	137.2	138.0	138.5
28S 23W 24ABB 01	aJ80		2465.				94.1	94.5		94.7	94.9	95.3	95.7
28S 24W 08DCC 01	qD77		2578.		133		138.1	139.5	145.2	140.8	143.4	142.8	143.4

TABLE 1, con't. -- SELECTED HYDROLOGIC DATA, FORD COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
*28S 24W 22CDA 01	aJ76		2500.				104.1	104.8	104.4	106.4	106.7	107.7	108.3
28S 24W 35CAB 01	aJ81		2528.	450				101.3	102.9	102.3	103.1	103.8	104.1
28S 25W 06ABB 01	qD72		2643.		144		147.9	148.9	149.2	149.6	150.8	166.2	151.6
28S 25W 19BBB 01	aJ77	TO	2635.	265	133		142.8	143.6	142.9	145.1	144.9	146.9	147.3
28S 26W 06ABB 01	aJ77	TO	2685.	195	133				162.5	163.6		165.8	172.5
28S 26W 10BAA 01	aJ85		2608.	192				98.0	98.5	99.3	99.9	101.6	102.5
28S 26W 13CAA 01	qD78		2635.				137.1	137.7	138.2	139.6	139.1	147.7	141.6
29S 21W 05BBB 01	qD56	TO	2418.		98	96.6	99.6	100.1	104.8	100.2	99.8	100.6	100.9
29S 21W 20CAD 01	aJ80		2445.				134.1	134.3	134.2	133.8	134.1	135.0	134.6
29S 22W 17DAD 01	aJ77	TO	2475.	240	119		129.1	129.9	128.4	127.8	127.8	129.7	129.3
*29S 22W 36ACA 01	aJ79		2445.	242			134.5	135.2	138.9	136.8	135.8	136.5	136.8
*29S 23W 12BAC 01	aJ80		2547.					179.0	182.4	178.3	178.5	179.9	
29S 24W 01ABA 01	aJ76	TO	2560.	220	140		142.3	143.3	143.5	144.3	144.4	145.3	145.6
29S 24W 13BCA 01	aJ80		2530.	212			113.0	113.5	113.7	114.1	114.1	114.9	114.9
29S 24W 18BAA 01	aJ76	TO	2610.	210	149		157.3	156.8	157.6	158.0	158.6	163.0	159.6
29S 25W 03ADA 01	aJ77	TO	2630.	220	152		179.3	176.4	177.1	183.7	180.5	183.8	184.9
29S 25W 10BBB 01	aJ78		2617.		139		154.9	155.9	157.7	161.5	158.4	164.4	165.3
29S 26W 01CDD 01	aJ77	TO	2583.	163	78		91.0	93.4	91.9	92.5	94.3	98.5	98.4
29S 26W 20BDD 01	aJ80		2575.	164				99.9	103.6	101.8	102.1	104.8	106.1
29S 26W 29ABB 01	aJ71		2558.					84.2	84.3	88.7	86.9	89.9	93.1
29S 26W 36BBB 01	aJ77	TO	2532.	212	26		23.5	23.9	23.6	28.5	26.5	30.4	30.4

TABLE 2. -- DERIVED HYDROLOGIC DATA, FORD COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	1966-90	1989-90	Average annual water-level change (feet/year) 1940-90	1966-90	Saturated thickness (feet) 1940	1989	Percentage change saturated thickness 1940-90
25S 22W 20AAA 01	TO	59.2	6	3.4	.3	.1	.1			
25S 22W 27CCD 01	KD	133.7			3.7					
25S 23W 11CCC 01	KD	93.0			2.9					
25S 23W 12BBB 01	KD	155.0			1.9					
*25S 23W 14ADD 01	KD									
*25S 25W 32CDD 01	QU,KD	194.1			-.7					
25S 25W 32DAD 01		74.3			-.3					
25S 26W 25CDD 01	TO	84.5	-6		-5.5	-.1		108	103	-5
25S 26W 30ABC 01	TO	115.4	-11			-.2		121	110	-9
26S 21W 17DBC 01	KD	62.0			1.6					
26S 21W 23ADA 01	QA	8.9	-3	-1.6	-.7	-.1	-.1			
26S 21W 25CCC 01		6.2			.6					
26S 22W 21DCD 01		40.3			3.3					
26S 23W 02ABB 01		81.2			-2.0					
26S 23W 10DAD 01		177.2			-.7					
26S 24W 29DDD 01	TO	139.4	-9		3.1	-.2				
26S 24W 31DDA 01	TO	18.9	-8		-.6	-.2				
26S 24W 32CBA 01	TO									
26S 24W 33CDA 01	TO	33.0	-7		-.4	-.1				
26S 25W 16DCC 01		141.7			.7					
26S 26W 18CCB 01		10.6			1.3					
*26S 26W 32DCC 01		89.2	-15		-1.5	-.3				
26S 26W 36DCC 01	TO	43.3	-12		-1.5	-.2		137	125	-9
27S 21W 10DBB 01		6.7			.5					
27S 22W 09DAB 01		64.2			.4					
27S 23W 24BCB 01	KD	53.1			-11.1					
27S 23W 28AAA 01										
*27S 23W 36CCC 01	TO	46.8	-1		-.3			101	100	-1
27S 24W 03BBD 01	TO	24.8	-6		-.4	-.1				
27S 24W 03CDD 01	TO	13.8			.9					
27S 24W 04BBC 01	TO	16.7	-6		-.3	-.1				
27S 24W 09AAD 01	TO	23.2	-13		.5	-.3				
27S 24W 16BDB 01		78.6			-.5					
27S 24W 26DAA 01	TO									
27S 25W 09ACA 01		68.7			.9					
27S 25W 25BBB 01		119.8			-.2					
28S 21W 10DDD 01		42.9	-2		1.3					
28S 21W 23DBC 01	TO	76.0			.7					
28S 21W 25ABB 01		71.2			.9				78	
28S 22W 05ADD 01		19.3			-.1					
28S 22W 12CAC 01	TO	62.8	3		.0	.1		16	19	19
28S 22W 32BAB 01	TO	132.8	-12			-.2		40	28	-30
*28S 23W 18BAB 01		138.5			-.5				101	
28S 23W 24ABB 01		95.7			-.4					
28S 24W 08DCC 01		143.4	-10		-.6	-.2				

TABLE 2, con't. -- DERIVED HYDROLOGIC DATA, FORD COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	1966-90	1989-90	Average annual water-level change (feet/year) 1940-90	1966-90	Saturated thickness (feet) 1940	1989	Percentage change saturated thickness 1940-90
*28S 24W 22CDA 01		108.3			-.6					
28S 24W 35CAB 01		104.1			-.3				346	
28S 25W 06ABB 01		151.6	-8		14.6	-.2				
28S 25W 19BBB 01	TO	147.3	-14		-.4	-.3		132	118	-11
28S 26W 06ABB 01	TO	172.5	-40		-6.7	-.8		62	23	-63
28S 26W 10BAA 01		102.5			-.9				90	
28S 26W 13CAA 01		141.6			6.1					
29S 21W 05BBB 01	TO	100.9	-3	-4.3	-.3	-.1	-.2			
29S 21W 20CAD 01		134.6			.4					
29S 22W 17DAD 01	TO	129.3	-10		.4	-.2		121	111	-8
*29S 22W 36ACA 01		136.8			-.3				105	
*29S 23W 12BAC 01										
29S 24W 01ABA 01	TO	145.6	-6		-.3	-.1		80	74	-8
29S 24W 13BCA 01		114.9			.0				97	
29S 24W 18BAA 01	TO	159.6	-11		3.4	-.2		61	50	-18
29S 25W 03ADA 01	TO	184.9	-33		-1.1	-.7		68	35	-49
29S 25W 10BBB 01		165.3	-26		-.9	-.5				
29S 26W 01CDD 01	TO	98.4	-20		.1	-.4		85	65	-24
29S 26W 20BDD 01		106.1			-1.3				58	
29S 26W 29ABB 01		93.1			-3.2					
29S 26W 36BBB 01	TO	30.4	-4		.0	-.1		186	182	-2

Geary County

TABLE 1. -- SELECTED HYDROLOGIC DATA, GEARY COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
11S 06E 27CBB 01	qM66		1057.			20.7	13.7	19.2	17.7	15.3	15.7	16.9	17.8

TABLE 2. -- DERIVED HYDROLOGIC DATA, GEARY COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
11S 06E 27CBB 01		17.8		2.9	-.9		.1			

Gove County

TABLE 1. -- SELECTED HYDROLOGIC DATA, GOVE COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
11S 26W 04CDC 01	aJ70	TO	2583.	190	62	60.0	64.7	63.6	62.5	67.4	64.5	64.3	64.4
11S 27W 04CCD 01	aJ70	TO	2708.				96.5	93.7		97.9	98.5	100.1	98.4
11S 27W 13ABB 01	aJ84		2671.					118.3	115.4	118.5	118.8	125.4	126.5
11S 27W 36BCC 01	aJ70	TO	2676.	140	71		78.2	77.3	75.8	76.6	74.8	79.2	76.3
11S 28W 08AAA 01	aJ84		2797.					116.8	116.2	117.8	117.2	116.1	116.1
11S 28W 17DDC 01	aJ70	TO	2784.					95.9	95.4	95.9	95.4	95.4	95.6
11S 28W 26ABA 01	aJ84		2749.					92.0	91.9	92.6		92.9	92.5
11S 29W 04DAD 01	aJ68	TO	2844.	170	109		113.4	113.0	112.9	113.2	113.0	114.3	113.2
11S 29W 33BBA 01	aJ84		2857.					104.9	104.8	105.0	105.0	105.1	105.2
11S 30W 27ABB 01	aJ70	TO	2922.	165	117		131.8	132.2	129.1	129.3	128.5	130.1	128.8
11S 30W 28CBA 01	aJ85		2925.					125.0	124.1	124.8	124.9	126.7	125.1
11S 30W 36CBB 01	aJ85		2885.					106.9	106.4	107.5	106.5	109.1	107.3
11S 31W 12AAB 01	aJ70	TO	2959.					103.6	105.0		104.3	105.5	105.0
11S 31W 27ADC 01	aJ84		2913.					49.5	51.8	50.7	50.2	49.7	51.4
11S 31W 35BDC 01	aJ84		2951.					97.3	97.4	98.7		98.1	100.0
12S 26W 12BCC 01	aJ70	TO	2573.					38.8	38.2	38.6	37.2	38.3	38.1
12S 27W 10CCB 01	aJ85		2700.					78.7	77.9	79.7	77.8	77.8	79.0
12S 27W 12ABB 01	aJ84	TO	2636.					50.4	50.5	52.1	50.1	49.7	50.1
12S 28W 07DDD 01	aJ84		2742.					48.4	48.8	49.5	48.0	48.8	49.5
12S 28W 12DDD 01	aJ68	TO	2741.					94.4	94.4	95.2	94.9	95.1	95.1
13S 26W 20CBC 01	aJ71	QA	2432.	43		11.1	16.5	16.3	15.8	16.4	12.1	14.3	14.5

TABLE 2. -- DERIVED HYDROLOGIC DATA, GOVE COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1950-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1950	Saturated thickness (feet) 1990	Percentage change saturated thickness 1950-90
11S 26W 04CDC 01	TO	64.4	-2	-4.4	-.1	-.1	-.2	128	126	-2
11S 27W 04CCD 01	TO	98.4			1.7					
11S 27W 13ABB 01		126.5			-1.1					
11S 27W 36BCC 01	TO	76.3	-5		2.9	-.1		69	64	-7
11S 28W 08AAA 01		116.1			.0					
11S 28W 17DDC 01	TO	95.6			-.2					
11S 28W 26ABA 01		92.5			.4					
11S 29W 04DAD 01	TO	113.2	-4		1.1	-.1		61	57	-7
11S 29W 33BBA 01		105.2			-.1					
11S 30W 27ABB 01	TO	128.8	-12		1.3	-.3		48	36	-25
11S 30W 28CBA 01		125.1			1.6					
11S 30W 36CBB 01		107.3			1.8					
11S 31W 12AAB 01	TO	105.0			.5					
11S 31W 27ADC 01		51.4			-1.7					
11S 31W 35BDC 01		100.0			-1.9					
12S 26W 12BCC 01	TO	38.1			.2					
12S 27W 10CCB 01		79.0			-1.2					
12S 27W 12ABB 01	TO	50.1			-.4					
12S 28W 07DDD 01		49.5			-.7					
12S 28W 12DDD 01	TO	95.1			.0					
13S 26W 20CBC 01	QA	14.5		-3.4	-.2		-.1		29	

Graham County

TABLE 1. -- SELECTED HYDROLOGIC DATA, GRAHAM COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
06S 21W 19CDC 01	aD78	TO	2305.	135				100.9	100.5	99.8		100.4	100.3
06S 22W 19CCC 01	aD76	TO	2395.	198			108.6	109.0	108.6	108.2	107.7	107.6	107.3
06S 22W 28ACA 01	aD78	TO	2360.	180			117.1		121.0	120.2	112.7	112.1	
06S 23W 13BBB 01	aD76	TO	2340.	183	55		58.1	57.7	57.5	57.6	57.0	57.3	56.9
06S 23W 17CCA 01	aD84		2406.					70.0	74.0	74.2	73.8	74.2	74.0
06S 24W 14AAA 01	aD84		2527.					116.8	116.5	116.9	116.2	116.1	117.3
06S 24W 28BAB 01	qD76	TO	2478.		96		104.7	103.7	101.2	101.9	100.8	101.1	102.0
06S 24W 35DDD 01	qD77	TO	2492.		142		148.0	146.9	146.7	147.6	145.5	146.3	
06S 25W 12CCC 01	aD76	TO	2538.	224	135		144.9	142.1	142.0	142.5	142.3	142.2	142.5
06S 25W 28CBC 01	qD62	TO	2540.	180	109	102.7	109.1	113.2	112.5	106.8	106.7	107.3	108.1
07S 22W 10BBC 01	aD78	TO	2217.	72	6		9.0	9.4	8.4	9.9	8.2	8.6	8.7
07S 22W 19BBB 01	aD76	TO	2295.	63	39		39.4	37.6	37.5	38.5	36.6	38.0	37.6
07S 23W 17BBC 01	aD84		2430.					103.8	103.3	103.0	102.2	102.0	
07S 24W 08CBA 01	aD78	TO	2519.	244	126		128.4	127.8	127.2	127.7	127.4	128.0	
07S 25W 24BBB 01	aD78	TO	2495.	210	85				87.7	88.1	88.0	88.4	88.4
07S 25W 33DDD 01	aD84		2502.					104.1	107.8	101.6	99.8	100.3	100.7
08S 21W 17ABB 01	qD75	QA	2035.				26.3	24.6	23.8	26.6	22.8	23.8	23.2
08S 22W 18CDC 01	qD77	QA					10.5	9.8	8.4	9.3	8.9	10.3	8.7
08S 24W 23ACC 01	qD76	QA					34.1	35.7	33.4	31.9	34.5	35.3	35.6
08S 25W 24BAB 01	aD84		2302.					29.0	30.6	31.7	29.9	30.1	29.5
09S 22W 19BBB 01	aD76	TO	2416.	134	95		96.2	96.4	95.8	91.1	93.8	94.6	
09S 24W 12BCC 01	aD84		2461.					100.8	100.0	98.8			
09S 24W 22BAA 01	aD77	TO	2491.	110	94		93.9	93.7	94.5	97.2	92.1	92.2	92.7
09S 25W 14DDD 01	aD79	TO	2534.	134	90		91.9	92.2	92.0	92.2	91.8	91.8	92.2

TABLE 2. -- DERIVED HYDROLOGIC DATA, GRAHAM COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
06S 21W 19CDC 01	TO	100.3			.1				35	
06S 22W 19CCC 01	TO	107.3			.3				91	
06S 22W 28ACA 01	TO									
06S 23W 13BBB 01	TO	56.9	-2		.4	-.1		128	126	-2
06S 23W 17CCA 01		74.0			.2					
06S 24W 14AAA 01		117.3			-1.2					
06S 24W 28BAB 01	TO	102.0	-6		-.9	-.1				
06S 24W 35DDD 01	TO									
06S 25W 12CCC 01	TO	142.5	-8		-.3	-.2		89	82	-8
06S 25W 28CBC 01	TO	108.1	1	-5.4	-.8		-.2	71	72	1
07S 22W 10BBC 01	TO	8.7	-3		-.1	-.1		66	63	-5
07S 22W 19BBB 01	TO	37.6	1		.4			24	25	4
07S 23W 17BBC 01										
07S 24W 08CBA 01	TO									
07S 25W 24BBB 01	TO	88.4	-3		.0	-.1		125	122	-2
07S 25W 33DDD 01		100.7			-.4					
08S 21W 17ABB 01	QA	23.2			.6					
08S 22W 18CDC 01	QA	8.7			1.6					
08S 24W 23ACC 01	QA	35.6			-.3					
08S 25W 24BAB 01		29.5			.6					
09S 22W 19BBB 01	TO									
09S 24W 12BCC 01										
09S 24W 22BAA 01	TO	92.7	1		-.5			16	17	6
09S 25W 14DDD 01	TO	92.2	-2		-.4	-.1		44	42	-5

Grant County

TABLE 1. -- SELECTED HYDROLOGIC DATA, GRANT COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1940	1966	1984	1985	1986	1987	1988	1989	1990
27S 35W 17ADD 01	au54	QU,TO	3086.	462	175	185.7	233.7	237.1	242.6	245.7	252.1	253.4	256.7
27S 35W 25BDC 01	aJ82		3046.				220.6	223.4	229.2	229.9	233.0	238.2	240.5
27S 36W 18DCB 01	aJ59	QU,TO	3065.	395	104	116.5	180.0	184.0	190.0	191.4	206.4	200.2	208.3
27S 36W 21DCC 01	aJ60	QU,TO	3132.		199			270.3	275.8	279.7	282.4	278.0	287.4
27S 36W 25CC 01	aJ59	QU,TO	3133.	438	216	253.6	299.7	311.0		312.8	315.1		
27S 37W 04ABB 01	aJ58	QU,TO	3080.	316	70	86.4	164.9	163.0	168.9	171.4	181.0	185.9	191.7
27S 37W 11ABA 01	aJ59	QU,TO	3093.	368	107	131.4	193.3	192.5	198.1	201.1	203.7	192.9	206.7
27S 37W 16AAD 01	aJ84		3075.	324	54			233.1	228.9	221.2	222.3	225.4	229.1
27S 37W 21BDD 01	aJ67		3058.		58		192.0	195.2	196.3	198.8	204.3		214.0
27S 38W 12ADC 01	aJ60	QU,TO	3076.	280	34	65.5	188.6	189.7	189.0	182.9	196.2	203.3	208.2
27S 38W 15BBB 01	aJ58	KJ	3148.			132.9	176.9	173.3	171.3	171.7	173.1	185.6	181.5
27S 38W 22CBB 01	aJ58	QU,TO	3110.	340	49	76.8	165.9	165.6	163.8	166.7		172.0	168.0
27S 38W 23CBB 01	aJ43	QU,TO	3105.	335	50	98.2	154.0	160.6	163.2	161.7	157.3	166.4	161.6
*27S 38W 32BCC 01	aJ40	QU,TO	3131.	371	50	105.1	157.3	161.4	162.5	164.1	165.7		
28S 35W 03DBB 01	aJ84		3079.					276.6	274.6	283.2		292.0	288.0
28S 35W 05BCC 01	aJ64	QU,TO	3117.	457	237	253.2	309.7	312.8		320.6	327.0	329.4	329.4
28S 35W 15CBB 01	aJ58	QU,TO	3064.	509	213	250.7	284.8	288.5	292.1	301.2	303.7	295.3	299.3
28S 35W 36ABC 01	aJ59	QU,TO	3032.	572	222	236.4	305.1	307.4	312.3	315.0	317.8	322.3	
28S 36W 02CDD 02	aJ66	QU,TO,KJ	3111.			241.6	288.3	292.3	296.0	285.2	284.1	284.4	
28S 36W 18ABC 01	aJ84		3050.	345	95			223.8	228.7	234.5	237.7	239.9	235.6
28S 36W 21CDD 01	aJ66	QU,TO	3066.	430	158	193.8	276.1	278.0	278.4	282.2	287.0	287.4	292.0
28S 37W 02BBB 04	aJ81		3072.					240.0	247.3	250.4	254.0	258.0	255.6
28S 37W 10BCD 02	aJ58	QU,TO	3057.	350	49	100.7	208.8	202.6	204.8	207.2	205.3	207.1	227.4
28S 38W 12DDD 01	aJ63	QU,TO	3080.	365	40	78.6	172.4	181.5	186.1	191.9	192.9		
28S 38W 17AAA 01	aJ63	QU,TO	3112.	422	41	118.1	200.2	206.3	209.1	223.0	210.0	227.2	232.9
28S 38W 33BDB 01	aJ82		3125.				197.7	205.2	209.7	216.1	219.5	212.7	213.2
29S 35W 07CBD 01	aJ79	QU,TO	3036.	441	168		275.4	275.1	277.4	275.2	279.5	289.2	281.3
29S 35W 24BAA 01	aJ84	TO	3037.	562	239			326.0	325.4	334.2	335.3	342.6	342.7
29S 35W 28ACC 01	aJ59	QU,TO	2975.	500	147	185.4	244.1	248.9	254.3	256.8	260.5	263.6	264.6
29S 36W 19BCB 01	aJ59	QU,TO	2995.	405	44	118.0	192.9	203.1	204.8	207.1	208.1	218.9	
29S 36W 33ADB 01	aJ84		3011.	466	91			226.9	227.0	226.5	231.9	247.3	248.0
29S 37W 03CDB 01	aJ67	QU,TO	3051.	421	71	133.0	222.8	220.0	230.3	230.8	239.7	247.5	245.1
29S 37W 08CBA 01	aJ59	QU,TO	3065.	430	46	114.5	218.1	220.8	230.2	230.6	247.2	254.9	245.2
29S 37W 29BBA 01	aJ53	QU,TO	3094.	504	74	148.0	257.1		267.0	266.2	272.3	278.8	279.6
29S 38W 20CDC 01	aJ63	QU,TO,KJ	3139.	489	59	80.8	150.4	153.6	160.4	168.1	180.4	192.1	192.6
29S 38W 35CCD 01	aJ58	QU,TO	3124.	469	74	115.1	172.1	173.4	175.7	177.6	180.8	183.4	183.1
30S 35W 02DBC 01	aJ58	QU,TO	3020.	525	225	240.5	315.3						318.5
30S 35W 19BCD 01	aJ58	QU,TO	3004.	474	134	153.3	202.1	200.9	198.8	193.1	204.8	203.7	
30S 36W 01BBB 01	aJ63	QU,TO	2973.	463	98	130.4	200.9	205.0	220.0	207.8	207.6	221.2	220.3
30S 36W 04ABB 01	aJ68	QU,TO,KJ	3033.	493	113		153.4	156.8		162.1	166.5	157.3	141.4
30S 36W 32BBC 01	aJ60	QU,TO	3064.	384	113	122.5	166.3	170.8	160.4	162.9	168.3	176.5	172.9
30S 37W 02BAA 02	aJ57	QU,TO	3102.	507	122	221.7	292.0	296.5	299.5	300.6	306.3	310.7	310.2
30S 37W 03DBA 01	aJ59	QU,TO,KJ	3108.	458	120		276.9	269.1	264.3		273.6		281.8
30S 37W 20CBC 01	aJ41	QU	3125.	385	114	164.6	208.2	210.7	212.6		221.2	223.9	225.6
30S 38W 13CCC 01	aJ57	QU,TO,KJ	3142.	467	102	146.7	199.7	205.6	206.0	211.6	217.5		223.3
30S 38W 15DBC 01	aJ58	QU	3144.	360	89	118.7	173.3	175.7	178.5	187.6	195.3	195.0	194.1
30S 38W 30ACA 01	aJ59	QU,TO	3152.	377	69	82.1	160.1	162.5	167.2	173.4	178.6	187.0	190.2

TABLE 2. – DERIVED HYDROLOGIC DATA, GRANT COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	1966-90	1989-90	Average annual water-level change (feet/year) 1940-90	1966-90	Saturated thickness (feet) 1940	1990	Percentage change saturated thickness 1940-90
27S 35W 17ADD 01	QU,TO	256.7	-82	-71.0	-3.3	-1.6	-3.0	287	205	-29
27S 35W 25BDC 01		240.5			-2.3					
27S 36W 18DCB 01	QU,TO	208.3	-104	-91.8	-8.1	-2.1	-3.8	291	187	-36
27S 36W 21DCC 01	QU,TO	287.4	-88		-9.4	-1.8				
27S 36W 25CC 01	QU,TO									
27S 37W 04ABB 01	QU,TO	191.7	-122	-105.3	-5.8	-2.4	-4.4	246	124	-50
27S 37W 11ABA 01	QU,TO	206.7	-100	-75.3	-13.8	-2.0	-3.1	261	161	-38
27S 37W 16AAD 01		229.1	-175		-3.7	-3.5		270	95	-65
27S 37W 21BDD 01		214.0	-156			-3.1				
27S 38W 12ADC 01	QU,TO	208.2	-174	-142.7	-4.9	-3.5	-5.9	246	72	-71
27S 38W 15BBB 01	KJ	181.5		-48.6	4.1		-2.0			
27S 38W 22CBB 01	QU,TO	168.0	-119	-91.2	4.0	-2.4	-3.8	291	172	-41
27S 38W 23CBB 01	QU,TO	161.6	-112	-63.4	4.8	-2.2	-2.6	285	173	-39
*27S 38W 32BCC 01	QU,TO									
28S 35W 03DBB 01		288.0			4.0					
28S 35W 05BCC 01	QU,TO	329.4	-92	-76.2	.0	-1.8	-3.2	220	128	-42
28S 35W 15CBB 01	QU,TO	299.3	-86	-48.6	-4.0	-1.7	-2.0	296	210	-29
28S 35W 36ABC 01	QU,TO									
28S 36W 02CDD 02	QU,TO									
28S 36W 18ABC 01		235.6	-141		4.3	-2.8		250	109	-56
28S 36W 21CDD 01	QU,TO	292.0	-134	-98.2	-4.6	-2.7	-4.1	272	138	-49
28S 37W 02BBB 04		255.6			2.4					
28S 37W 10BCD 02	QU,TO	227.4	-178	-126.7	-20.3	-3.6	-5.3	301	123	-59
28S 38W 12DDD 01	QU,TO									
28S 38W 17AAA 01	QU,TO	232.9	-192	-114.8	-5.7	-3.8	-4.8	381	189	-50
28S 38W 33BDB 01		213.2			-.5					
29S 35W 07CBD 01	QU,TO	281.3	-113		7.9	-2.3		273	160	-41
29S 35W 24BAA 01	TO	342.7	-104		-.1	-2.1		323	219	-32
29S 35W 28ACC 01	QU,TO	264.6	-118	-79.2	-1.0	-2.4	-3.3	353	235	-33
29S 36W 19BCB 01	QU,TO									
29S 36W 33ADB 01		248.0	-157		-.7	-3.1		375	218	-42
29S 37W 03CDB 01	QU,TO	245.1	-174	-112.1	2.4	-3.5	-4.7	350	176	-50
29S 37W 08CBA 01	QU,TO	245.2	-199	-130.7	9.7	-4.0	-5.4	384	185	-52
29S 37W 29BBA 01	QU,TO	279.6	-206	-131.6	-.8	-4.1	-5.5	430	224	-48
29S 38W 20CDC 01	QU,TO	192.6	-134	-111.8	-.5	-2.7	-4.7	430	296	-31
29S 38W 35CCD 01	QU,TO	183.1	-109	-68.0	.3	-2.2	-2.8	395	286	-28
30S 35W 02DBC 01	QU,TO	318.5	-94	-78.0		-1.9	-3.3	300	207	-31
30S 35W 19BCD 01	QU,TO									
30S 36W 01BBB 01	QU,TO	220.3	-122	-89.9	.9	-2.4	-3.7	365	243	-33
30S 36W 04ABB 01	QU,TO	141.4	-28		15.9	-.6		380	352	-7
30S 36W 32BBC 01	QU,TO	172.9	-60	-50.4	3.6	-1.2	-2.1	271	211	-22
30S 37W 02BAA 02	QU,TO	310.2	-188	-88.5	.5	-3.8	-3.7	385	197	-49
30S 37W 03DBA 01	QU,TO	281.8	-162			-3.2		338	176	-48
30S 37W 20CBC 01	QU	225.6	-112	-61.0	-1.7	-2.2	-2.5	271	159	-41
30S 38W 13CCC 01	QU,TO	223.3	-121	-76.6		-2.4	-3.2	365	244	-33
30S 38W 15DBC 01	QU	194.1	-105	-75.4	.9	-2.1	-3.1	271	166	-39
30S 38W 30ACA 01	QU,TO	190.2	-121	-108.1	-3.2	-2.4	-4.5	308	187	-39

Gray County

TABLE 1. -- SELECTED HYDROLOGIC DATA, GRAY COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
24S 27W 08CCC 01	aJ56	QU,TO	2697.	138	66	59.1	73.2	75.0	74.0	75.2	73.9	80.3	75.9
24S 27W 14ABB 01	aJ56	QU,TO	2654.	92	74	66.2	64.1	64.9	68.1	65.4	64.2	64.9	64.6
24S 27W 29BCC 01	aJ85		2702.	152	72			84.8	84.6	86.4	85.0	86.8	87.0
24S 28W 28BBA 01	aJ85		2750.	240	93			108.1	108.3	109.7	110.0	112.0	111.7
24S 28W 31DD 01	aJ64	QU,TO	2754.	264	91	87.9	121.4	123.9	124.8	123.2	122.7		127.0
24S 28W 36ACA 01	aJ56	TO	2720.	135	85	83.3	97.1	97.0	97.3	98.3	97.9	98.3	99.0
24S 29W 16DCA 01	aJ64	QU,TO	2787.	222	98	96.2	112.2	112.9		115.0	114.4		116.4
24S 29W 18CCB 01	aJ64	QU,TO	2814.	220	106	109.8	123.3	125.0	130.5	126.4	126.6	131.7	131.7
24S 30W 15CCC 01	aJ65	QU,TO	2846.	248	114	117.0	135.3	136.6	136.7	139.2	145.7	144.3	
24S 30W 33ADD 01	aJ85	TO	2857.	282	130			156.2	149.9	149.9	151.7	156.6	157.2
25S 27W 33ABB 01	aJ65	QU,TO	2728.	249	134	131.8	138.7	138.6	138.7	139.1	140.9	143.5	145.7
25S 29W 07BCB 01	aJ64	QU,TO	2830.	281	131	129.0	143.1	144.3	143.8	145.6	145.5	148.1	148.2
25S 29W 14ABB 01	aJ56	QU,TO	2776.		107	107.1	131.1		132.4	133.2	131.8	136.1	136.6
25S 29W 27CCB 01	aJ85		2678.	168	8			16.2	10.1	9.9	9.2	12.0	
25S 30W 20BCB 01	aJ56	QU,TO	2734.	184	9	9.8	16.7	16.9	10.9	10.9	9.4	11.5	13.1
26S 27W 13BBC 01	aJ39	QU,TO	2567.	165	9	7.9	4.3	10.6	12.6	8.6	4.6	8.9	8.1
26S 27W 27CDD 01	aJ70	QU,TO	2612.	222	33		47.0	49.2	50.4	53.7	54.2	57.6	57.7
26S 28W 06DDB 01	aJ85		2647.	147	9			14.5	12.0	11.9	11.6	13.2	
26S 29W 15BCA 01	aJ85		2732.	232	62			86.8	89.3	91.5	91.7	93.2	96.0
26S 29W 35CCC 01	aJ65	QU,TO	2742.	242	72	71.6	96.1	98.7	101.6	103.4	106.8	110.0	112.6
*26S 30W 01ABC 01	aJ84		2740.				65.0		67.7	69.1	67.3	70.2	69.1
26S 30W 24DDD 01	aJ72	QU,TO	2754.	253	54		82.6	85.2	90.6	103.3	103.7	105.6	97.2
27S 27W 01BAA 01	aJ85		2631.					82.5	85.1	86.2	87.3	89.1	90.6
27S 27W 07ADC 01	aJ67	QU,TO	2686.	186	82	74.0	94.6	95.9	94.1	99.5	101.4		103.3
27S 27W 10CDB 01	aJ64	QU,TO	2712.	235	131	123.4	141.0	142.8	144.3	145.7	147.3	150.3	150.6
27S 27W 25CCD 01	aJ37	QU,TO	2732.	228	167	163.8	178.6	180.0	181.0	183.1	183.7	188.7	187.1
27S 28W 05AAA 01	aJ71	QU,TO	2707.	228	66		88.8	91.6	94.0	98.0	98.5	106.7	101.6
27S 28W 30CCA 01	aJ70	QU,TO	2738.	218	78			106.1	107.1		110.9	113.0	115.3
27S 29W 27CAA 01	aJ85		2760.	235	83			102.4	105.7	107.1	110.6	113.3	115.3
27S 30W 08BBB 01	aJ64	QU,TO	2790.	265	68	66.6		109.0	110.5	115.7	114.8		
27S 30W 23BBA 01	aJ40	QU,TO	2772.	247	68	63.9	103.7	105.4	108.8	112.2	113.6	116.7	119.2
27S 30W 34CCC 01	aJ67	QU,TO	2807.	404	102	101.0		144.9	147.4	150.5	152.2	154.7	157.3
28S 27W 03BBB 01	aJ72	QU,TO	2755.	260	166			185.5	190.7	194.0	186.8	186.2	186.9
28S 28W 07CDD 01	aJ85		2775.	250	117			178.0	182.8	187.5	189.1	194.0	
28S 28W 20ADD 02	aJ64	QU,TO	2795.	220	145	146.2	148.0	148.5	147.8	149.1	150.1	148.3	147.8
28S 29W 16ACC 01	aJ65	QU,TO	2799.	299	121	125.0	158.6	159.6	161.0	162.0	162.9	164.0	165.5
28S 30W 10DDD 01	aJ64	QU,TO	2814.	469	115	120.9	162.5	164.7	167.8	170.4	171.8	178.5	
28S 30W 17BBA 01	aJ59	TO	2817.	497	110	110.4	157.4	159.9	163.1	165.5	167.5	171.2	175.2
28S 30W 24BAB 01	aJ61	QU,TO	2804.	429	114	119.5	160.6	161.7	164.0	167.1	168.9	180.7	174.7
29S 27W 30BCC 01	aJ59	QU,TO	2655.	280	87	103.0	130.4	131.5	133.1	135.7	139.1		144.9
29S 28W 28CDC 01	aJ59	TO	2688.	278	88	91.2		120.2		124.6	126.7	129.7	130.9
29S 29W 10ABB 01	aJ81		2745.						121.7	123.6	124.6	127.4	128.4
29S 29W 27BCB 01	aJ65	QU,TO	2739.	494	98	101.0	132.9	136.6	139.7	139.9	141.9	143.8	145.3
29S 30W 22BBC 01	aJ65	QU,TO	2816.	446	144	144.6	182.0	180.5	180.1	182.4	192.1	200.7	203.9
29S 30W 35ACD 01	aJ65	QU,TO	2805.	445	146	147.8	193.8	195.3	204.1	203.9	203.6	206.8	208.9

TABLE 2. -- DERIVED HYDROLOGIC DATA, GRAY COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	1966-90	1989-90	Average annual water-level change (feet/year) 1940-90	1966-90	Saturated thickness (feet) 1940	1990	Percentage change saturated thickness 1940-90
24S 27W 08CCC 01	QU,TO	75.9	-10	-16.8	4.4	-.2	-.7	72	62	-14
24S 27W 14ABB 01	QU,TO	64.6	9	1.6	.3	.2	.1	18	27	50
24S 27W 29BCC 01		87.0	-15		-.2	-.3		80	65	-19
24S 28W 28BBA 01		111.7	-19		.3	-.4		147	128	-13
24S 28W 31DD 01	QU,TO	127.0	-36	-39.1		-.7	-1.6	173	137	-21
24S 28W 36ACA 01	TO	99.0	-14	-15.7	-.7	-.3	-.7	50	36	-28
24S 29W 16DCA 01	QU,TO	116.4	-18	-20.2		-.4	-.8	124	106	-15
24S 29W 18CCB 01	QU,TO	131.7	-26	-21.9	.0	-.5	-.9	114	88	-23
24S 30W 15CCC 01	QU,TO									
24S 30W 33ADD 01	TO	157.2	-27		-.6	-.5		152	125	-18
25S 27W 33ABB 01	QU,TO	145.7	-12	-13.9	-2.2	-.2	-.6	115	103	-10
25S 29W 07BCB 01	QU,TO	148.2	-17	-19.2	-.1	-.3	-.8	150	133	-11
25S 29W 14ABB 01	QU,TO	136.6	-30	-29.5	-.5	-.6	-1.2			
25S 29W 27CCB 01										
25S 30W 20BCB 01	QU,TO	13.1	-4	-3.3	-1.6	-.1	-.1	175	171	-2
26S 27W 13BBC 01	QU,TO	8.1	1	-.2	.8			156	157	1
26S 27W 27CDD 01	QU,TO	57.7	-25		-.1	-.5		189	164	-13
26S 28W 06DDB 01										
26S 29W 15BCA 01		96.0	-34		-2.8	-.7		170	136	-20
26S 29W 35CCC 01	QU,TO	112.6	-41	-41.0	-2.6	-.8	-1.7	170	129	-24
*26S 30W 01ABC 01		69.1			1.1					
26S 30W 24DDD 01	QU,TO	97.2	-43		8.4	-.9		199	156	-22
27S 27W 01BAA 01		90.6			-1.5					
27S 27W 07ADC 01	QU,TO	103.3	-21	-29.3		-.4	-1.2	104	83	-20
27S 27W 10CDB 01	QU,TO	150.6	-20	-27.2	-.3	-.4	-1.1	104	84	-19
27S 27W 25CCD 01	QU,TO	187.1	-20	-23.3	1.6	-.4	-1.0	61	41	-33
27S 28W 05AAA 01	QU,TO	101.6	-36		5.1	-.7		162	126	-22
27S 28W 30CCA 01	QU,TO	115.3	-37		-2.3	-.7		140	103	-26
27S 29W 27CAA 01		115.3	-32		-2.0	-.6		152	120	-21
27S 30W 08BBB 01	QU,TO									
27S 30W 23BBA 01	QU,TO	119.2	-51	-55.3	-2.5	-1.0	-2.3	179	128	-28
27S 30W 34CCC 01	QU,TO	157.3	-55	-56.3	-2.6	-1.1	-2.3	302	247	-18
28S 27W 03BBB 01	QU,TO	186.9	-21		-.7	-.4		94	73	-22
28S 28W 07CDD 01										
28S 28W 20ADD 02	QU,TO	147.8	-3	-1.6	.5	-.1	-.1	75	72	-4
28S 29W 16ACC 01	QU,TO	165.5	-45	-40.5	-1.5	-.9	-1.7	178	134	-25
28S 30W 10DDD 01	QU,TO									
28S 30W 17BBA 01	TO	175.2	-65	-64.8	-4.0	-1.3	-2.7	387	322	-17
28S 30W 24BAB 01	QU,TO	174.7	-61	-55.2	6.0	-1.2	-2.3	315	254	-19
29S 27W 30BCC 01	QU,TO	144.9	-58	-41.9		-1.2	-1.7	193	135	-30
29S 28W 28CDC 01	TO	130.9	-43	-39.7	-1.2	-.9	-1.7	190	147	-23
29S 29W 10ABB 01		128.4			-1.0					
29S 29W 27BCB 01	QU,TO	145.3	-47	-44.3	-1.5	-.9	-1.8	396	349	-12
29S 30W 22BBC 01	QU,TO	203.9	-60	-59.3	-3.2	-1.2	-2.5	302	242	-20
29S 30W 35ACD 01	QU,TO	208.9	-63	-61.1	-2.1	-1.3	-2.5	299	236	-21

Greeley County

TABLE 1. – SELECTED HYDROLOGIC DATA, GREELEY COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
16S 39W 02BDC 01	aJ70	TO	3520.	220	81		136.0	137.7	137.5	139.7	141.1	143.2	143.3
16S 39W 22DCB 01	qJ64	TO	3529.	163	95	88.8	129.8	132.5	136.0	131.2	131.8	131.8	135.4
16S 40W 15ACC 01	aJ65	TO	3650.	192	114	119.9		162.0	151.5	151.7	152.7		169.0
16S 40W 17CBC 01	qJ85	TO	3688.						158.9	160.3	159.6		163.6
16S 40W 26ADA 01	aJ76	TO	3602.	157	93		117.8	118.9	117.0	118.0	119.0	121.5	120.3
16S 41W 20BAD 01	aJ66	TO	3739.	234	129	131.3	168.1	169.7	169.6	170.5	171.9		175.0
16S 41W 33AAB 01	aJ69	TO	3746.	202	156		176.3	175.2	174.8		174.7	175.3	
16S 42W 22BCB 01	aJ66	TO	3828.	237	183	198.5	197.3	199.5	209.7	200.3	200.8	200.7	201.2
16S 42W 25AAA 01	aJ89		3763.									174.0	184.0
17S 39W 02BAA 01	qJ72	TO	3511.	161	102		116.5	117.1	117.6	117.6	117.8	117.3	118.6
17S 39W 22ABB 01	aJ65	TO	3527.	195	118	123.3	130.8	133.5	136.5	131.7	131.8	132.6	134.2
17S 39W 34CCB 01	aJ77	TO	3505.	135	95		99.0	96.4	98.8	96.1	96.6	95.9	97.5
17S 40W 15CCB 01	aJ62	TO	3607.	209	123	127.0	138.7	138.6	138.3	138.8	138.9	138.0	138.9
17S 40W 17BBA 01	aJ72	TO	3663.	217	165		185.4	184.7	179.4		185.5	184.9	186.1
17S 40W 31BBA 01	aJ65	TO	3663.	218	151	168.1	167.7	164.2	165.7	163.4	164.1	164.7	162.4
17S 42W 27CBB 01	qJ71	TO	3768.	61	31		38.1	37.2	36.6	37.0	36.6	38.8	40.4
18S 39W 07BBD 01	aJ69	TO	3564.	145	109		116.2	118.6	116.2	116.3	114.6	114.8	114.6
18S 39W 19CDA 01	aJ72	TO	3510.	100	70		73.4	73.6	74.0	74.2	74.2	75.6	76.9
18S 39W 23CCB 01	aJ67	TO	3485.	185	113	122.2	133.3	133.2	133.1	133.4		133.2	134.1
18S 39W 24AAC 01	aJ63	TO	3467.	183	105		140.7	142.3	135.3	135.1	134.8	134.4	136.5

TABLE 2. – DERIVED HYDROLOGIC DATA, GREELEY COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
16S 39W 02BDC 01	TO	143.3	-62		-.1	-1.6		139	77	-45
16S 39W 22DCB 01	TO	135.4	-40	-46.6	-3.6	-1.0	-1.9	68	28	-59
16S 40W 15ACC 01	TO	169.0	-55	-49.1		-1.4	-2.0	78	23	-71
16S 40W 17CBC 01	TO	163.6								
16S 40W 26ADA 01	TO	120.3	-27		1.2	-.7		64	37	-42
16S 41W 20BAD 01	TO	175.0	-46	-43.7		-1.1	-1.8	105	59	-44
16S 41W 33AAB 01	TO									
16S 42W 22BCB 01	TO	201.2	-18	-2.7	-.5	-.4	-.1	54	36	-33
16S 42W 25AAA 01		184.0			-10.0					
17S 39W 02BAA 01	TO	118.6	-17		-1.3	-.4		59	42	-29
17S 39W 22ABB 01	TO	134.2	-16	-10.9	-1.6	-.4	-.5	77	61	-21
17S 39W 34CCB 01	TO	97.5	-3		-1.6	-.1		40	38	-5
17S 40W 15CCB 01	TO	138.9	-16	-11.9	-.9	-.4	-.5	86	70	-19
17S 40W 17BBA 01	TO	186.1	-21		-1.2	-.5		52	31	-40
17S 40W 31BBA 01	TO	162.4	-11	5.7	2.3	-.3	.2	67	56	-16
17S 42W 27CBB 01	TO	40.4	-9		-1.6	-.2		30	21	-30
18S 39W 07BBD 01	TO	114.6	-6		.2	-.1		36	30	-17
18S 39W 19CDA 01	TO	76.9	-7		-1.3	-.2		30	23	-23
18S 39W 23CCB 01	TO	134.1	-21	-11.9	-.9	-.5	-.5	72	51	-29
18S 39W 24AAC 01	TO	136.5	-32		-2.1	-.8		78	47	-40

Hamilton County

TABLE 1. – SELECTED HYDROLOGIC DATA, HAMILTON COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
21S 39W 07CBA 01	au62	TO	3497.	215	196	194.0		185.1	185.3	183.0		188.5	181.9
22S 39W 03BBB 01	au62	TO	3453.	199		191.2	183.3	182.8	183.4	183.2	182.0	188.7	
23S 39W 15ADD 01	au62	QU,TO	3325.	144		130.1	129.4	129.1	129.2	129.5	128.2	129.6	129.9
23S 40W 29DDB 01	au62	KU	3397.			240.3	301.0	304.6	308.0	309.4	315.5	321.3	309.0
23S 42W 19CBB 01	au62	QA,QU	3339.	67	20	24.1	25.4	26.4	25.7	25.4	24.5	32.9	24.3
23S 42W 26DCA 01	au61	QA	3309.	70	29	23.7	27.5	26.4	25.9	26.2	28.0	26.3	26.3
23S 42W 27DDB 01	aJ61	QA	3311.	70	23	20.0		23.1	22.9	21.9	23.0	23.1	23.3
23S 42W 34CBB 01	au61	QA	3307.	58	13	9.6	10.7	10.2	10.5	10.4	10.5		10.9
23S 43W 21ABA 01	au44	QA	3364.	29	15	15.0	13.5	12.2	12.5	13.0	12.8	12.9	13.4
23S 43W 23BCB 01	au47	QA	3356.	68	21	20.5	21.5	21.4	20.8	21.1	20.8	27.2	21.4
23S 43W 25CBD 02	au58	QA	3335.	47	8	8.8	8.3	8.5	8.3	8.0	8.0	8.4	8.8
23S 43W 26BCC 01	au60	QA	3343.	22	7	7.1	7.6	9.3	7.9	9.2	7.5	7.8	7.8
24S 39W 19CBC 01	au50	QA	3175.	65	6	6.7	8.9	9.0	8.4	8.7	8.8	9.2	9.2
24S 39W 22CCB 01	au48	QA	3152.	42	8	11.8	10.6	10.5	11.7	12.7	11.0	10.8	11.1
24S 39W 35BAC 01	au53	QA	3143.	43	9	5.4	8.8	8.6	8.5	8.7	8.7	8.9	8.7
24S 39W 35CBA 01	au58	QU	3146.	97	11	11.4	15.5	15.3	15.1	15.4	15.3	15.6	15.6
24S 40W 07CBB 01	au48	QA	3233.	58	14	13.9	15.2	15.0	13.4	14.9	15.1	15.2	15.4
24S 40W 17BBB 01	aD70	QA	3221.	71	13		14.8	14.6	13.4	14.0	13.8	15.0	15.5
24S 40W 23AAB 01	au59	QA	3204.	104	26	24.4	27.0	26.5	23.6	25.6	25.4	28.8	26.8
24S 40W 31BBB 01	au60	QU	3287.			63.6	64.9	65.1	66.7	64.4	65.7	65.1	64.5
24S 41W 01DAD 01	au61	QA,QU	3254.	45		14.7	26.1	25.8	25.4	25.0	24.9	23.4	25.1
24S 42W 04AAD 01	au62	QA	3304.	44	7	6.5	13.5	12.7	10.1	9.7	4.1	7.6	11.7
24S 42W 28DDD 01	aJ61	KJ	3455.			160.0	164.4	164.5		165.3	166.0	166.0	166.9
*24S 43W 14CBB 01	aJ39	KJ	3452.		114	110.8	117.8	117.5		120.2	117.6	115.4	115.3
*25S 39W 02CAD 01	au60	QU,TO	3156.	46	24	27.9	33.2	32.7	34.8	34.7	33.6	34.1	34.4
25S 39W 23BDD 01	au62	QU,TO	3286.	133		78.7	91.4	91.1	90.8			90.8	90.3
25S 40W 01CA 01	au62	QU	3218.	58	46	45.8	50.8	48.2				51.3	50.7
25S 40W 26BBB 01	au40	KJ	3412.		213	215.0	221.5	221.6	221.6	224.7	224.0	229.6	225.5
25S 43W 03ABB 01	aJ62	KJ	3575.			190.5	266.2	261.6	248.3	266.0	275.9	263.2	264.3
25S 43W 25CCD 01	au61	QU,TO	3490.	225	101	121.4	147.4		148.6	150.4	150.4	151.2	
26S 41W 20BCD 01	au62	QU,TO	3317.	242	17	20.7	33.2	33.1	32.4	34.7	39.3	37.8	39.4
26S 41W 32DDB 01	au89		3354.									146.2	153.2
26S 41W 36CCC 01	aJ66	QU,TO	3270.	231	35	29.0	54.3	56.4	56.6	59.2	62.2	63.1	65.5
26S 42W 10BB 02	aJ61	QU,TO	3405.	245	52	77.2	108.2	110.1	112.2	115.0	116.7	120.7	126.3
26S 42W 17CBB 01	uu60	QU,TO,KJ	3458.			108.1	167.0	169.4	170.8		172.3	176.6	179.9
26S 42W 22DCC 01	aF89		3414.									175.3	
26S 43W 10DBB 01	aJ84		3516.	241	118			232.1	233.1		238.0	240.6	
26S 43W 25DCC 01	aJ72	QU,TO,KJ	3508.	258	128		211.4	213.4	222.0	218.7	220.9	225.0	227.5

TABLE 2. – DERIVED HYDROLOGIC DATA, HAMILTON COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1940-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1940	Saturated thickness (feet) 1990	Percentage change saturated thickness 1940-90
21S 39W 07CBA 01	TO	181.9	14	12.1	6.6	.3	.5	19	33	74
22S 39W 03BBB 01	TO									
22S 39W 08DDD 01	TO									
23S 39W 15ADD 01	QU,TO	129.9		.2	-.3				14	
23S 40W 29DDB 01	KU	309.0		-68.7	12.3		-2.9			
23S 42W 19CBB 01	QA,QU	24.3	-4	-.2	8.6	-.1		47	43	-9
23S 42W 26DCA 01	QA	26.3	3	-2.6	.0	.1	-.1	41	44	7
23S 42W 27DDB 01	QA	23.3	0	-3.3	-.2		-.1	47	47	0
23S 42W 34CBB 01	QA	10.9	2	-1.3			-.1	45	47	4
23S 43W 21ABA 01	QA	13.4	2	1.6	-.5		.1	14	16	14
23S 43W 23BCB 01	QA	21.4	0	-.9	5.8			47	47	0
23S 43W 25CBD 02	QA	8.8	-1	.0	-.4			39	38	-3
23S 43W 26BCC 01	QA	7.8	-1	-.7	.0			15	14	-7
24S 39W 19CBC 01	QA	9.2	-3	-2.5	.0	-.1	-.1	59	56	-5
24S 39W 22CCB 01	QA	11.1	-3	.7	-.3	-.1		34	31	-9
24S 39W 35BAC 01	QA	8.7	0	-3.3	.2		-.1	34	34	0
24S 39W 35CBA 01	QU	15.6	-5	-4.2	.0	-.1	-.2	86	81	-6
24S 40W 07CBB 01	QA	15.4	-1	-1.5	-.2		-.1	44	43	-2
24S 40W 17BBB 01	QA	15.5	-3		-.5	-.1		58	56	-3
24S 40W 23AAB 01	QA	26.8	-1	-2.4	2.0		-.1	78	77	-1
24S 40W 31BBB 01	QU	64.5		-.9	.6					
24S 41W 01DAD 01	QA,QU	25.1		-10.4	-1.7		-.4		20	
24S 42W 04AAD 01	QA	11.7	-5	-5.2	-4.1	-.1	-.2	37	32	-14
24S 42W 28DDD 01	KJ	166.9		-6.9	-.9		-.3			
*24S 43W 14CBB 01	KJ	115.3	-1	-4.5	.1		-.2			
*25S 39W 02CAD 01	QU,TO	34.4	-10	-6.5	-.3	-.2	-.3	22	12	-45
25S 39W 23BDD 01	QU,TO	90.3		-11.6	.5		-.5		43	
25S 40W 01CA 01	QU	50.7	-5	-4.9	.6	-.1	-.2	12	7	-42
25S 40W 26BBB 01	KJ	225.5	-13	-10.5	4.1	-.3	-.4			
25S 43W 03ABB 01	KJ	264.3		-73.8	-1.1		-3.1			
25S 43W 21AAB 01	KJ									
25S 43W 25CCD 01	QU,TO									
26S 41W 12DCC 01	KJ									
26S 41W 20BCD 01	QU,TO	39.4	-22	-18.7	-1.6	-.4	-.8	225	203	-10
26S 41W 32DDB 01		153.2			-7.0					
26S 41W 36CCC 01	QU,TO	65.5	-31	-36.5	-2.4	-.6	-1.5	196	166	-15
26S 42W 10BB 02	QU,TO	126.3	-74	-49.1	-5.6	-1.5	-2.0	193	119	-38
26S 42W 17CBB 01	QU,TO	179.9		-71.8	-3.3		-3.0			
*26S 42W 22CDB 01	QU,TO									
26S 42W 22DCC 01										
26S 43W 10DBB 01										
26S 43W 25DCC 01	QU,TO	227.5	-100		-2.5	-2.0		130	31	-76

Harper County

TABLE 1. -- SELECTED HYDROLOGIC DATA, HARPER COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
32S 06W 01DDD 01	aU86		1360.						24.0	24.7	23.7		25.3

TABLE 2. -- DERIVED HYDROLOGIC DATA, HARPER COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-90	1966-90	1989-90	1950-90	1966-90	1950	1990	1950-90
32S 06W 01DDD 01		25.3								

Harvey County

TABLE 1. – SELECTED HYDROLOGIC DATA, HARVEY COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1944	1974	1984	1985	1986	1987	1988	1989	1990
22S 02W 05CBD 01	aJ84		1468.				48.0	48.3	47.7	47.3	46.3	46.6	46.7
22S 02W 29BBA 01	aJ70						23.0	20.5	18.9	19.2	18.7	21.2	21.0
22S 03W 02DCD 01	aJ70	QU	1450.				40.3	39.4	34.1	33.9	33.6	36.2	35.9
22S 03W 29BAD 01	aJ81	QU	1430.				13.9	15.8	6.9	9.3	9.6	15.0	13.9
22S 03W 35AAA 01	aJ70	QU	1420.				11.7	10.9	6.1	6.9	7.2	12.2	12.3
23S 01W 19AAC 01	aJ70	QU	1420.				33.1	33.1	31.6	31.5	29.7	32.3	32.1
23S 01W 28AAD 01	aJ71		1403.				22.6	22.2	19.5	20.2	19.5	21.9	21.7
23S 02W 22CCD 01	aJ81	QU	1395.				18.4	16.3	12.8	14.2	14.0	17.1	15.6
23S 02W 34DCC 01	qJ49	QU	1398.				13.5	14.8	13.3	12.5	11.7	15.8	16.3
23S 03W 06DDD 01	aJ82	QU	1495.				74.4	73.2	65.9	67.5	67.9	72.2	71.9
23S 03W 14AAC 01	aJ81	QU	1450.				37.4	37.3	32.8	32.9	33.3	37.5	35.3
23S 03W 32DCC 02	qJ39	QU	1444.				9.6	9.7	8.2	7.9	7.9	10.0	10.1
24S 01W 05AAB 01	aJ81		1394.				27.8		22.3	24.0	21.8	26.0	25.6
24S 01W 19BCC 01	aJ84	QU	1383.				22.7	23.0	18.6	20.1	19.0	21.9	21.7
24S 01W 22BCC 01	aJ81	QU	1390.				29.4	27.8	24.6	26.8	25.3	28.3	28.0
24S 02W 28DDD 01	qJ58	QU,QU	1403.				35.3	36.6	34.5	30.3	32.2	37.3	37.8
24S 03W 14BBB 01	qJ65	QU	1430.				15.2	15.3	15.3	15.3	15.3	15.3	15.7

TABLE 2. – DERIVED HYDROLOGIC DATA, HARVEY COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
		1990	1944-90	1974-90	1989-90	1944-90	1974-90	1944	1990	1944-90
22S 02W 05CBD 01		46.7			-.1					
22S 02W 29BBA 01		21.0			.2					
22S 03W 02DCD 01	QU	35.9			.3					
22S 03W 29BAD 01	QU	13.9			1.1					
22S 03W 35AAA 01	QU	12.3			-.1					
23S 01W 19AAC 01	QU	32.1			.2					
23S 01W 28AAD 01		21.7			.2					
23S 02W 22CCD 01	QU	15.6			1.5					
23S 02W 34DCC 01	QU	16.3			-.5					
23S 03W 06DDD 01	QU	71.9			.3					
23S 03W 14AAC 01	QU	35.3			2.2					
23S 03W 32DCC 02	QU	10.1			-.1					
24S 01W 05AAB 01		25.6			.4					
24S 01W 19BCC 01	QU	21.7			.2					
24S 01W 22BCC 01	QU	28.0			.3					
24S 02W 28DDD 01	QU,QU	37.8			-.5					
24S 03W 14BBB 01	QU	15.7			-.4					

Haskell County

TABLE 1. – SELECTED HYDROLOGIC DATA, HASKELL COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
27S 31W 24CDC 01	aJ64	QU,TO	2816.	366	94	97.8		152.9	147.7	150.3	152.3	156.0	158.3
27S 31W 31BCC 01	aJ48	QU,TO	2895.	520	151	154.8	194.8	199.6		204.9	207.2	210.9	211.9
27S 32W 03CBB 01	aJ85		2872.		92			138.1	139.9	142.5	145.8	151.8	156.3
27S 32W 06CBB 01	aJ73	QU,TO	2905.	465	107		147.8	152.8	154.9	155.4	161.1	165.9	168.1
27S 32W 19CCD 01	aJ54	QU,TO	2906.	456	118	130.0	173.7	177.7	181.0	183.7	190.0	198.7	200.2
27S 33W 29DAA 01	aJ65	QU,TO	2995.	540	194	186.3	256.9	265.4	270.8	271.9	279.3	284.0	289.7
27S 34W 16DDD 01	aJ82		3000.				181.2	184.3	192.8	190.9	194.9	200.9	202.3
27S 34W 28DAA 02	aJ77		3042.				227.4	230.8	234.2	237.7	242.8	250.5	250.7
28S 31W 35CCB 01	aJ64	QU,TO	2863.	443	156	171.9	207.6	210.6		215.4	219.2	223.2	229.8
28S 32W 18BBB 01	aJ66	QU,TO	2951.	581	192	203.3	296.6	303.4	301.1	302.5	315.7		315.4
28S 32W 24BCC 01	aF64	QU,TO	2910.	549	175	181.5	221.1	231.6	229.5	231.7	234.0	234.0	233.2
28S 33W 20DDD 01	aJ85		2967.								340.2	319.2	320.9
28S 33W 29CD 01	aD87		2958.								343.9		
28S 34W 15DAB 01	qJ66	QU,TO	3020.	570	243	263.0	351.3	358.5		370.7	377.3	366.7	366.4
29S 31W 09CB 01	aJ64	QU,TO	2871.	466	166	169.4	205.4	216.7	220.0	223.6	225.9	228.9	232.0
29S 31W 34BCA 01	aJ56	QU,TO	2858.	468	168	172.7	224.6	218.5	222.4	224.7	227.3	233.5	233.3
29S 32W 04AAA 01	aJ85		2914.						247.3	260.3	263.5	263.0	264.9
29S 32W 19CCC 01	aJ59	QU,TO	2923.	598	208	218.2	282.7	286.5	291.6	296.0	298.8	303.9	312.0
29S 32W 26CBB 02	qJ60	QU,TO	2895.		191	204.1	255.2	255.3	257.5	261.1	264.1	267.7	269.7
29S 33W 01AAB 01	aJ58	QU,TO	2946.	601	213	226.3	329.1	327.6	329.0	336.5	334.9		346.8
29S 33W 28BCB 01	aJ70	QU,TO	2963.	558	212		299.3	299.3		307.6	311.3	315.1	
29S 33W 34DDD 01	aJ85		2950.					304.6	310.0	314.9	318.3	322.2	
30S 31W 24BBC 01	aJ85		2831.						204.5	213.1	214.9	214.8	217.5
30S 31W 26ABB 01	aJ85		2834.					227.3	229.2	232.9	234.8	238.2	238.5
30S 32W 11BBB 01	aJ61	QU,TO	2885.	560	188	202.4	258.1	252.9	263.1	270.1	268.4		272.5
30S 32W 31BAB 01	aJ58	QU,TO	2906.	466	194	202.0	258.7	256.6	259.4	264.0	268.5	271.0	271.9
30S 33W 06DBD 01	aJ64	QU,TO	2986.	596	233	241.4	301.2	298.1	301.7	305.9	310.1		
30S 34W 05BBB 01	aJ57	QU,TO	3006.	531	223	232.7	320.1	308.3	302.2	301.1	308.8		309.6
30S 34W 30ADD 02	aJ78		2843.		63		92.6	96.2	105.5	109.0	111.6	114.3	116.4

TABLE 2. – DERIVED HYDROLOGIC DATA, HASKELL COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	1966-90	1989-90	Average annual water-level change (feet/year) 1940-90	1966-90	Saturated thickness (feet) 1940	1990	Percentage change saturated thickness 1940-90
27S 31W 24CDC 01	QU,TO	158.3	-64	-60.5	-2.3	-1.3	-2.5	272	208	-24
27S 31W 31BCC 01	QU,TO	211.9	-61	-57.1	-1.0	-1.2	-2.4	369	308	-17
27S 32W 03CBB 01		156.3	-64		-4.5	-1.3				
27S 32W 06CBB 01	QU,TO	168.1	-61		-2.2	-1.2		358	297	-17
27S 32W 19CCD 01	QU,TO	200.2	-82	-70.2	-1.5	-1.6	-2.9	338	256	-24
27S 33W 29DAA 01	QU,TO	289.7	-96	-103.4	-5.7	-1.9	-4.3	346	250	-28
27S 34W 16DDD 01		202.3			-1.4					
27S 34W 28DAA 02		250.7			-.2					
28S 31W 35CCB 01	QU,TO	229.8	-74	-57.9	-6.6	-1.5	-2.4	287	213	-26
28S 32W 18BBB 01	QU,TO	315.4	-123	-112.1		-2.5	-4.7	389	266	-32
28S 32W 24BCC 01	QU,TO	233.2	-58	-51.7	.8	-1.2	-2.2	374	316	-16
28S 33W 20DDD 01		320.9			-1.7					
28S 33W 29CD 01										
28S 34W 13BBB 01	QU,TO									
28S 34W 15DAB 01	QU,TO	366.4	-123	-103.4	.3	-2.5	-4.3	327	204	-38
29S 31W 09CB 01	QU,TO	232.0	-66	-62.6	-3.1	-1.3	-2.6	300	234	-22
29S 31W 34BCA 01	QU,TO	233.3	-65	-60.6	.2	-1.3	-2.5	300	235	-22
29S 32W 04AAA 01		264.9			-1.9					
29S 32W 19CCC 01	QU,TO	312.0	-104	-93.8	-8.1	-2.1	-3.9	390	286	-27
29S 32W 26CBB 02	QU,TO	269.7	-79	-65.6	-2.0	-1.6	-2.7			
29S 33W 01AAB 01	QU,TO	346.8	-134	-120.5		-2.7	-5.0	388	254	-35
29S 33W 28BCB 01	QU,TO									
29S 33W 34DDD 01										
29S 34W 11CCC 01										
30S 31W 24BBC 01		217.5			-2.7					
30S 31W 26ABB 01		238.5			-.3					
30S 32W 11BBB 01	QU,TO	272.5	-85	-70.1		-1.7	-2.9	372	288	-23
30S 32W 31BAB 01	QU,TO	271.9	-78	-69.9	-.9	-1.6	-2.9	272	194	-29
30S 33W 06DBD 01	QU,TO									
30S 33W 30CBD 01	QU,TO									
30S 34W 05BBB 01	QU,TO	309.6	-87	-76.9		-1.7	-3.2	308	221	-28
30S 34W 30ADD 02		116.4	-53		-2.1	-1.1				

Hodgeman County

TABLE 1. – SELECTED HYDROLOGIC DATA, HODGEMAN COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
21S 22W 12BCB 01	qD60	QA	2156.			35.5	50.6	51.3	51.1	51.2	50.4	52.9	55.3
22S 22W 13CCC 01	qD65	QA	2152.			24.0	31.1	34.0	34.1	33.6	30.6	34.3	35.8
22S 23W 31ADD 01	aD69		2340.					146.5	140.9	138.6	133.2		
*22S 24W 14BBC 01	aD71	KD	2460.				280.9	273.3	266.3	267.6	261.8	278.9	274.3
22S 24W 15BDA 01	aJ71	KD	2463.				282.3	271.6	265.3	266.4	261.2	276.2	270.7
*22S 24W 16ADB 02	qD72	KD	2465.				264.2	269.7	262.2	269.5	259.7	276.1	268.6
22S 24W 24DDD 01	aJ70	KD	2360.				180.2	171.9		160.8	158.3	169.4	
*22S 24W 25DDC 01	qD70	KD	2332.				154.4	133.6	138.7	138.4	134.4	159.3	142.9
22S 24W 26DDA 01	aJ70	KD	2365.				150.1	158.7		152.8	151.1	156.5	156.4
22S 24W 35DAC 01	aD70	KD	2312.				135.8	138.0	127.7	118.3	114.2	135.6	120.0
23S 22W 07DAA 01	qD72	KD	2239.				77.4	79.1	78.2	76.7	75.1	79.9	80.3
*23S 23W 04AAD 01	uD70	KD	2235.				40.0	33.7	32.4	31.6	30.8	45.2	36.5
23S 23W 04DCA 01	aD70	KD	2236.				42.7	38.7	33.0	37.2	29.6		37.2
23S 23W 12ABD 01	aD70	KD	2256.				79.4	82.4	88.3	86.2	86.1	90.7	66.9
*23S 24W 11DAA 01	qD70	KD	2335.				155.0	134.7	138.2	136.1	133.5	137.4	142.9
23S 26W 07CCC 01	qJ68		2612.				323.3	323.2	325.3	327.7	321.4	324.5	322.5
23S 26W 20CCC 01	aJ85		2594.					48.7	46.2	46.2	45.4	47.5	47.4
23S 26W 26AAD 01	aJ85		2590.					70.7	67.7	69.2	68.8	70.5	69.5
23S 26W 31CDD 01	aJ77	TO	2621.	122	71		69.6	70.4	67.5	68.6	70.0	71.1	70.8
24S 21W 20CBB 01	aJ77	KD	2348.				77.7	77.8	79.2	77.6	77.4	77.7	77.1
24S 23W 03CCC 01	aJ77	TO	2422.	90			57.7	57.0	57.3	58.7	58.2	61.2	61.1
24S 23W 06AAB 01	qD73	KD	2457.				215.1	214.7	212.1	211.3	211.2	212.2	210.2
*24S 24W 02CCC 01	aJ77	TO	2478.	90			66.7	58.3	59.4	59.6	60.3	63.9	62.8
24S 24W 20CCC 01	aJ77	TO	2511.	86			63.6	64.1	68.4	63.1	62.7	63.3	63.5
24S 25W 22BAB 01	aJ85		2545.					85.0	84.1	80.2	79.9	82.7	83.7
24S 26W 35CBC 01	qD54	TO	2608.		63		61.9	61.5	61.1	60.5	59.5	59.8	59.3

TABLE 2. -- DERIVED HYDROLOGIC DATA, HODGEMAN COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1940-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1940	Saturated thickness (feet) 1990	Percentage change saturated thickness 1940-90
21S 22W 12BCB 01	QA	55.3		-19.8	-2.4		-.8			
22S 22W 13CCC 01	QA	35.8		-11.8	-1.5		-.5			
22S 23W 31ADD 01										
*22S 24W 14BBC 01	KD	274.3			4.6					
22S 24W 15BDA 01	KD	270.7			5.5					
*22S 24W 16ADB 02	KD	268.6			7.5					
22S 24W 24DDD 01	KD									
*22S 24W 25DDC 01	KD	142.9			16.4					
22S 24W 26DDA 01	KD	156.4			.1					
22S 24W 35DAC 01	KD	120.0			15.6					
23S 22W 07DAA 01	KD	80.3			-.4					
*23S 23W 04AAD 01	KD	36.5			8.7					
23S 23W 04DCA 01	KD	37.2								
23S 23W 12ABD 01	KD	66.9			23.8					
*23S 24W 11DAA 01	KD	142.9			-5.5					
23S 25W 22DBB 01	KD									
23S 26W 07CCC 01		322.5			2.0					
23S 26W 20CCC 01		47.4			.1					
23S 26W 26AAD 01		69.5			1.0					
23S 26W 31CDD 01	TO	70.8	0		.3			51	51	0
24S 21W 20CBB 01	KD	77.1			.6					
24S 23W 03CCC 01	TO	61.1			.1				29	
24S 23W 06AAB 01	KD	210.2			2.0					
*24S 24W 02CCC 01	TO	62.8			1.1				27	
24S 24W 20CCC 01	TO	63.5			-.2				23	
24S 25W 22BAB 01		83.7			-1.0					
24S 26W 35CBC 01	TO	59.3	4		.5	.1				

Jackson County

TABLE 1. -- SELECTED HYDROLOGIC DATA, JACKSON COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1944	1974	1984	1985	1986	1987	1988	1989	1990
06S 15E 27BAB 01	aM72		1135.			76.2	85.4	86.1	87.4	88.3	87.5	89.3	89.2

TABLE 2. -- DERIVED HYDROLOGIC DATA, JACKSON COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1944-90	1974-90	1989-90	1944-90	1966-90	1944	1990	1944-90
06S 15E 27BAB 01		89.2		-13.0	.1		-.8			

Jefferson County

TABLE 1. -- SELECTED HYDROLOGIC DATA, JEFFERSON COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
11S 16E 25CBA 01	qM66		873.			26.1	24.4	24.5	24.0	23.8	25.0	27.5	27.1
11S 17E 27BBC 01	qM66		860.			17.7	18.3	17.5	17.4	16.9	18.2	20.7	20.0
11S 18E 08DAC 01	qM66		852.			15.1	12.8	10.9	9.3	10.9	14.3	16.3	15.9
11S 19E 29CCA 01	qM66		848.			19.7	21.5	19.3	19.8	18.8	21.9	25.4	23.4

TABLE 2. -- DERIVED HYDROLOGIC DATA, JEFFERSON COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
11S 16E 25CBA 01		27.1		-1.0	.4					
11S 17E 27BBC 01		20.0		-2.3	.7		-.1			
11S 18E 08DAC 01		15.9		-.8	.4					
11S 19E 29CCA 01		23.4		-3.7	2.0		-.2			

Johnson County

TABLE 1. -- SELECTED HYDROLOGIC DATA, JOHNSON COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
12S 22E 25BCC 01	qM61		780.			20.1	27.3	28.7	23.9	25.0	26.9	31.2	30.0
12S 22E 29BBD 01	qM67		791.				18.4	14.2	15.1	15.0	18.7	21.9	22.6

TABLE 2. – DERIVED HYDROLOGIC DATA, JOHNSON COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
12S 22E 25BCC 01		30.0		-9.9	1.2		-.4			
12S 22E 29BBD 01		22.6			-.7					

Kearny County

TABLE 1. -- SELECTED HYDROLOGIC DATA, KEARNY COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
22S 35W 23CDD 01	aJ61	TO	3025.	175	95	107.6	129.3	130.8	131.5	132.0	132.7	133.3	133.7
22S 36W 28DCC 01	aJ84		3215.	210	167			177.7		172.8		172.9	175.6
22S 37W 34BBC 01	aJ86		3230.						135.2	135.8	135.7	136.3	136.3
23S 35W 05ACC 01	aJ66	TO	3096.	180	118	122.7		150.9			164.8		
23S 35W 12CCC 01	aJ58	QU,TO	3009.	369	67	79.1	161.5	154.6	153.3	143.9	149.4	140.4	139.7
23S 35W 16BBC 01	aJ85		3038.	263	52			136.8	139.7	142.4	135.1	137.7	135.6
23S 35W 25BBB 02	aJ58	QU,TO	3005.	385	46	59.1	125.2	121.1	120.2	107.2	102.5	106.0	105.8
23S 36W 04CBB 01	aJ61	TO	3183.	198	142	132.9	144.9	145.4		143.9	143.4	145.3	
23S 36W 32BBB 01	aJ62	TO	3234.	305	189	218.0	236.8	236.9	235.9	238.2	240.4	247.4	245.5
23S 36W 35BBB 01	aJ85		3193.	293	169			214.0		213.5	212.3	214.0	213.3
*23S 37W 04ABC 01	aJ78	TO	3281.	233	183		190.7	200.3		190.7	190.5	194.1	193.6
23S 37W 19CCC 01	aJ61	TO	3326.	294	223	232.9	247.4	246.7	244.4	249.4	256.4		
23S 37W 28CCB 01	aJ61	TO	3303.	300	218	236.9	256.1	255.1		254.7	256.2	256.8	256.4
24S 35W 09CCC 01	aJ58	QU,TO	2998.	358	30	31.0	48.0	42.4	42.6	36.0	35.3	36.2	35.9
24S 35W 13CCC 02	qJ62	QA	2941.	346	12	8.2	19.2	18.2	16.5	16.1	14.7	15.4	15.5
24S 35W 24BCB 01	aJ58	QA	2941.	341	11			29.3	27.1	26.4	25.4	26.5	26.4
24S 36W 23CBB 02	aJ58	QU,TO	3014.	310	26	24.8	38.7	34.6	31.9	32.3	30.9	32.0	30.6
25S 35W 02BAA 01	qJ75	QU,TO	2990.	400	52		96.2	99.3	100.7	101.6	102.6	104.8	106.4
25S 35W 04BDD 01	aJ85		2990.	410	40			41.9		70.3	69.7	71.0	71.3
*25S 35W 17AAA 01	qJ75	QU,TO	2995.	405	37		88.7	90.7		98.5	98.0	101.2	105.2
25S 35W 26BAB 01	aJ75	QU,TO	3005.	450	70		113.1	115.7		136.0	141.2	145.3	151.6
25S 36W 14B 01	aJ85		3050.					99.9	99.9	91.5	95.8	97.0	94.3
25S 36W 28BBD 01	aJ69	QU,TO	3050.	362	51		96.5	87.2	91.0		101.3	111.7	112.7
25S 36W 35CCA 01	qJ77		3025.							101.6	104.1	107.4	109.3
25S 37W 15ABA 02	qJ67	QA	3050.	30	5		9.2	8.8	9.0	8.5	9.0	9.4	9.3
25S 37W 25BAD 02	aJ62	QU,TO,KJ	3056.	156	41	38.1	66.9		69.1		71.4	73.0	74.2
25S 38W 02BDA 01	aJ84		3170.					96.7				96.8	117.1
25S 38W 08CAA 01	aJ66	QU,TO,KJ	3140.	90	30	37.5	44.7	38.6	45.0	44.9	44.9	45.0	45.1
25S 38W 20ACC 01	aJ62	QU,TO,KJ	3175.	75	65	63.2	70.7	70.8	71.0	71.2	71.3	71.5	69.2
25S 38W 26ACC 01	aJ62	QU,TO	3145.	145	63	65.4	81.6	77.6	77.5	75.6	76.1	76.1	76.4
26S 35W 06ACC 01	aJ65	QU	3008.	418	58	60.7			93.4			105.0	109.8
26S 35W 29BBD 01	aJ81		3045.		113		169.8	172.4		179.9	185.8	188.8	191.9
26S 36W 22CCA 01	aJ82		3090.	440	125		165.9	168.9	172.6	177.3	180.4	184.6	189.8
26S 37W 06ACB 01	aJ62	QU,TO	3092.	102		26.1	29.9	30.9	30.7	30.7	30.2	27.1	32.1

TABLE 2. -- DERIVED HYDROLOGIC DATA, KEARNY COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	1966-90	1989-90	Average annual water-level change (feet/year) 1940-90	1966-90	Saturated thickness (feet) 1940	1990	Percentage change saturated thickness 1940-90
22S 35W 23CDD 01	TO	133.7	-39	-26.1	-.4	-.8	-1.1	80	41	-49
22S 36W 28DCC 01		175.6	-9		-2.7	-.2		43	34	-21
22S 37W 34BBC 01		136.3			.0					
23S 35W 05ACC 01	TO									
23S 35W 12CCC 01	QU,TO	139.7	-73	-60.6	.7	-1.5	-2.5	302	229	-24
23S 35W 16BBC 01		135.6	-84		2.1	-1.7		211	127	-40
23S 35W 25BBB 02	QU,TO	105.8	-60	-46.7	.2	-1.2	-1.9	339	279	-18
23S 36W 04CBB 01	TO									
23S 36W 32BBB 01	TO	245.5	-57	-27.5	1.9	-1.1	-1.1	116	60	-48
23S 36W 35BBB 01		213.3	-44		.7	-.9		124	80	-35
*23S 37W 04ABC 01	TO	193.6	-11		.5	-.2		50	39	-22
23S 37W 19CCC 01	TO									
23S 37W 28CCB 01	TO	256.4	-38	-19.5	.4	-.8	-.8	82	44	-46
24S 35W 09CCC 01	QU,TO	35.9	-6	-4.9	.3	-.1	-.2	328	322	-2
24S 35W 13CCC 02	QA	15.5	-4	-7.3	-.1	-.1	-.3	334	331	-1
24S 35W 24BCB 01	QA	26.4	-15		.1	-.3		330	315	-5
24S 36W 23CBB 02	QU,TO	30.6	-5	-5.8	1.4	-.1	-.2	284	279	-2
25S 35W 02BAA 01	QU,TO	106.4	-54		-1.6	-1.1		348	294	-16
25S 35W 04BDD 01		71.3	-31		-.3	-.6		370	339	-8
*25S 35W 17AAA 01	QU,TO	105.2	-68		-4.0	-1.4		368	300	-18
25S 35W 26BAB 01	QU,TO	151.6	-82		-6.3	-1.6		380	298	-22
25S 36W 14B 01		94.3			2.7					
25S 36W 28BBD 01	QU,TO	112.7	-62		-1.0	-1.2		311	249	-20
25S 36W 35CCA 01		109.3			-1.9					
25S 37W 15ABA 02	QA	9.3	-4		.1	-.1		25	21	-16
25S 37W 25BAD 02	QU,TO	74.2	-33	-36.1	-1.2	-.7	-1.5	115	82	-29
25S 38W 02BDA 01		117.1			-20.3					
25S 38W 08CAA 01	QU,TO	45.1	-15	-7.6	-.1	-.3	-.3	60	45	-25
25S 38W 20ACC 01	QU,TO	69.2	-4	-6.0	2.3	-.1	-.3	10	6	-40
25S 38W 26ACC 01	QU,TO	76.4	-13	-11.0	-.3	-.3	-.5	82	69	-16
26S 35W 06ACC 01	QU	109.8	-52	-49.1	-4.8	-1.0	-2.0	360	308	-14
26S 35W 29BBD 01		191.9	-79		-3.1	-1.6				
26S 36W 22CCA 01		189.8	-65		-5.2	-1.3		315	250	-21
26S 37W 06ACB 01	QU,TO	32.1		-6.0	-5.0		-.3		70	

Kingman County

TABLE 1. – SELECTED HYDROLOGIC DATA, KINGMAN COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1944	1974	1984	1985	1986	1987	1988	1989	1990
27S 05W 24CDC 01	aJ55	QU	1477.		14	12.6	15.7	15.6	11.1	12.4	12.3	16.3	12.9
27S 05W 33ABB 02	aJ73	QU	1460.	60	25	4.0	8.0	3.9	3.7	5.1	5.3	9.3	8.5
27S 06W 12CCD 01	aJ70	QU	1488.		7	6.6	8.9	8.6	7.1	7.1	9.3	11.5	14.2
27S 06W 16CCB 01	aJ73		1462.	17	1	.9	2.5	2.4	2.6	2.6	1.4	3.9	
27S 07W 03ADC 01	aJ56	QU	1545.	25	20	8.2	8.9	8.4	5.6	6.9	7.8	11.0	11.7
27S 07W 23BCC 01	aJ73	QU	1567.	14		7.3	8.0	7.0	6.1	6.6	6.3	7.9	7.8
27S 08W 14DDC 01	aJ66	QU	1610.		2	.6						2.4	1.4
27S 08W 17DAB 01	aJ73	QU	1665.	118	45	34.4	37.1	36.8	34.7	35.2	33.0	35.5	36.9
27S 08W 25DAD 01	aJ64		1622.	67			21.9	20.0	18.4	19.0	15.1	19.6	
27S 08W 35CBC 01	aJ66	QU	1610.	54	32	20.4	22.3	21.7	20.3	22.7	20.5	21.9	22.1
27S 09W 15ABA 01	aJ73	QU	1702.	153	50	49.8	48.1	47.7	45.8	45.6	44.8	45.7	46.5
27S 09W 29AAA 01	aJ80		1700.		30		24.3	24.3	23.1	24.3	23.2	23.7	24.5
27S 10W 03DDD 01	qJ66	QU	1743.	145	33	51.0	51.6	52.0	50.6	51.5	50.2	51.9	53.1
27S 10W 17DDD 01	aJ74	QU	1755.	171	77	61.9	63.2	63.2	62.7	63.3	61.8	62.9	64.1
27S 10W 24DAD 01	aJ73	QU	1692.	117	20	16.0	16.2	18.4	15.0	18.5	14.9	16.5	16.3
28S 07W 29CDD 01	qJ55	QU	1601.	151	30	26.6	26.6	25.8	24.9	25.2	24.2	25.4	25.8
28S 07W 35CCD 01	aJ67	QU	1585.		23	21.9	21.3	21.2	20.2	20.4	19.7	20.7	17.8
28S 08W 21BBB 01	aJ74	QU	1562.	49	1	2.3	2.8	2.4	1.9	2.1	1.6	2.4	2.3
28S 08W 26ABC 01	aJ71	QU	1652.		77	63.2	61.6	62.7	59.6	63.0	63.8	60.1	59.8
28S 09W 01BCC 01	aJ69		1580.	55	15	7.5	7.9	7.6	6.7	7.2	6.9	8.1	7.3
28S 09W 21AAA 01	aJ74	QU	1666.	118	34	28.1	29.3	28.7	27.1	27.9	26.8	27.8	28.4
28S 09W 29CCC 01	aJ74	QU	1708.	107	30	32.7	33.6	33.0	31.3		27.4	32.2	33.1
28S 09W 34AAB 01	aJ68	QU	1690.	75	41	42.8	44.5	43.9	41.7	41.6	40.8	41.7	43.1
28S 10W 16BCB 01	aJ71	QU	1756.	154	51	50.2	51.2	53.8	48.8	49.0	48.5	49.7	50.5
29S 10W 19DDB 01	aJ85		1765.							23.2	23.3	24.5	24.9
30S 10W 05BBD 01	aJ88		1770.									43.7	45.5
30S 10W 28DAC 01	aJ88		1730.									20.3	20.4

TABLE 2. -- DERIVED HYDROLOGIC DATA, KINGMAN COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	Water-level change (feet) 1974-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1944-90	Average annual water-level change (feet/year) 1974-90	Saturated thickness (feet) 1944	Saturated thickness (feet) 1990	Percentage change saturated thickness 1944-90
27S 05W 24CDC 01	QU	12.9	1	-.3	3.4					
27S 05W 33ABB 02	QU	8.5	17	-4.5	.8	.4	-.3	35	52	49
27S 06W 12CCD 01	QU	14.2	-7	-7.6	-2.7	-.2	-.5			
27S 06W 16CCB 01										
27S 07W 03ADC 01	QU	11.7	8	-3.5	-.7	.2	-.2	5	13	160
27S 07W 23BCC 01	QU	7.8		-.5	.1				6	
27S 08W 14DDC 01	QU	1.4	1	-.8	1.0					
27S 08W 17DAB 01	QU	36.9	8	-2.5	-1.4	.2	-.2	73	81	11
27S 08W 25DAD 01										
27S 08W 35CBC 01	QU	22.1	10	-1.7	-.2	.2	-.1	22	32	45
27S 09W 15ABA 01	QU	46.5	4	3.3	-.8	.1	.2	103	107	4
27S 09W 29AAA 01		24.5	6		-.8	.1				
27S 10W 03DDD 01	QU	53.1	-20	-2.1	-1.2	-.4	-.1	112	92	-18
27S 10W 17DDD 01	QU	64.1	13	-2.2	-1.2	.3	-.1	94	107	14
27S 10W 24DAD 01	QU	16.3	4	-.3	.2	.1		97	101	4
28S 07W 29CDD 01	QU	25.8	4	.8	-.4	.1	.1	121	125	3
28S 07W 35CCD 01	QU	17.8	5	4.1	2.9	.1	.3			
28S 08W 21BBB 01	QU	2.3	-1	.0	.1			48	47	-2
28S 08W 26ABC 01	QU	59.8	17	3.4	.3	.4	.2			
28S 09W 01BCC 01		7.3	8	.2	.8	.2		40	48	20
28S 09W 21AAA 01	QU	28.4	6	-.3	-.6	.1		84	90	7
28S 09W 29CCC 01	QU	33.1	-3	-.4	-.9	-.1		77	74	-4
28S 09W 34AAB 01	QU	43.1	-2	-.3	-1.4			34	32	-6
28S 10W 16BCB 01	QU	50.5	1	-.3	-.8			103	104	1
29S 10W 19DDB 01		24.9			-.4					
30S 10W 05BBD 01		45.5			-1.8					
30S 10W 28DAC 01		20.4			-.1					

Kiowa County

TABLE 1. -- SELECTED HYDROLOGIC DATA, KIOWA COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1944	1974	1984	1985	1986	1987	1988	1989	1990
27S 16W 10BAC 01	aJ62	QU	2088.	248	28	12.1	25.4	26.0	25.4	28.0	25.9	29.4	29.2
27S 16W 19BBD 01	aJ72	QU	2112.	182	37	20.3	32.2	32.6	32.1	32.7	31.0	33.6	33.4
27S 16W 28CDD 01	aJ73	QU	2120.	168	65	56.7	66.0	66.5	65.6	67.7	65.8	68.1	65.8
27S 17W 21ADC 01	qJ41	QU	2140.	175	39	24.4	33.8	34.4	34.1	34.7	33.2	35.3	35.6
27S 18W 13AAA 01	qJ73	QU	2152.	219	24	15.6	23.8	24.3	23.3	24.1	22.0	26.2	24.8
27S 18W 18DDC 01	qJ40	QU	2192.	187	26	15.7	17.6	19.4	18.9	20.0	20.0	23.3	20.6
27S 18W 22ADC 01	aJ70	QU	2175.	210	29	14.1	23.9	23.9	23.1	23.8	22.5	24.3	24.6
27S 18W 36CCA 01	aJ88											41.3	42.0
27S 19W 28CBD 01	aJ73	QU	2262.	187	60	67.9	73.2	73.7	73.3	73.4	73.1	74.6	74.4
27S 20W 26ABD 01	qJ69	QU	2274.	174	38	40.6	45.0	44.3	42.9	42.9	42.0	43.3	42.7
27S 20W 32ABD 01	aJ69	QU	2308.	108	36	45.2	45.3	46.5	46.0	45.7	47.0	46.9	46.4
28S 16W 12BCA 01	aJ60	QU	2111.	211	92	101.0	98.4	101.1	100.9	100.5	100.2	101.1	101.5
28S 16W 17AAC 01	aJ62	QU	2165.	245	120	118.0	116.0	117.3	117.1	117.0	116.9	119.2	118.0
28S 16W 31DCA 01	aJ85		2110.	192	75			70.3	71.5	70.7	69.2	69.6	69.9
28S 17W 01CAB 01	aJ68	QU	2135.	180	65	55.6	59.7	60.1	59.8	60.0	59.9	60.8	61.4
28S 17W 05DDB 01	aJ69	QU	2163.	163	65	62.0	58.0	60.5	60.3	60.1	59.0	59.6	59.4
28S 17W 15DDB 01	aJ62	QU	2178.	191	105	96.0	96.4	97.0	96.7	96.6	96.4	97.2	97.4
28S 18W 09BAC 01	aJ69	QU	2221.	182	66	61.7	64.7	64.9	64.5	64.3	64.4	65.3	65.5
28S 18W 19CCB 01	aJ66	QU	2268.		103	88.0	88.6	89.0	88.6	88.7	90.2	89.0	89.0
28S 18W 26DCA 01	aJ63	QU	2231.	181	119	119.0	120.5	121.3	119.9	120.3	119.8		
28S 19W 10AAC 01	qJ77	TO					92.3	92.7	92.8	93.0	92.6	93.7	94.0
28S 19W 30CBC 01	aJ73	QU	2335.	185	116	115.0	113.5	113.4	112.6	113.8	112.3	113.5	112.7
28S 19W 33CBD 01	aJ66	QU	2325.	220	133	134.0	135.5	133.2	133.9	134.6	133.8	134.1	133.7
28S 20W 12BBD 01	aJ54	QU	2288.	190	64	55.7	57.0	57.5	57.2	57.0	56.3	56.8	56.5
28S 20W 30ACA 01	aJ60	QU	2319.	69	32	39.4	41.7	42.1	41.6	41.1	41.2	42.3	41.7
29S 16W 02ADB 01	aJ88											50.1	50.0
29S 17W 04ABC 01	aJ57	QU	2125.	122	60	50.0	51.9	51.9	51.6	51.9	51.3	51.6	51.6
29S 17W 12DAA 01	aJ88											48.1	48.5
29S 18W 02ACC 01	qJ77	TO	2251.	196			144.4	143.4	143.0	142.9	142.6	142.9	142.7
29S 18W 07BBD 01	aJ68	QU	2311.	256	155	153.5	155.2	154.0	153.3	153.5	153.7	153.6	153.3
29S 19W 22BAA 01	aJ67	QU	2340.	250	158	157.0	157.7	156.7	156.1	156.7	156.5	156.4	156.0
29S 20W 11CDD 01	aJ70	QU	2398.		170	168.0	166.8	166.9	166.1	166.4	166.4	166.5	166.2

TABLE 2. – DERIVED HYDROLOGIC DATA, KIOWA COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	1974-90	1989-90	Average annual water-level change (feet/year) 1944-90	1974-90	Saturated thickness (feet) 1944	1990	Percentage change saturated thickness 1974-90
27S 16W 10BAC 01	QU	29.2	-1	-17.1	.2		-1.1	220	219	0
27S 16W 19BBD 01	QU	33.4	4	-13.1	.2	.1	-.8	145	149	3
27S 16W 28CDD 01	QU	65.8	-1	-9.1	2.3		-.6	103	102	-1
27S 17W 21ADC 01	QU	35.6	3	-11.2	-.3	.1	-.7	136	139	2
27S 18W 13AAA 01	QU	24.8	-1	-9.2	1.4		-.6	195	194	-1
27S 18W 18DDC 01	QU	20.6	5	-4.9	2.7	.1	-.3	161	166	3
27S 18W 22ADC 01	QU	24.6	4	-10.5	-.3	.1	-.7	181	185	2
27S 18W 36CCA 01		42.0			-.7					
27S 19W 28CBD 01	QU	74.4	-14	-6.5	.2	-.3	-.4	127	113	-11
27S 20W 26ABD 01	QU	42.7	-5	-2.1	.6	-.1	-.1	136	131	-4
27S 20W 32ABD 01	QU	46.4	-10	-1.2	.5	-.2	-.1	72	62	-14
28S 16W 12BCA 01	QU	101.5	-10	-.5	-.4	-.2		119	110	-8
28S 16W 17AAC 01	QU	118.0	2	.0	1.2			125	127	2
28S 16W 31DCA 01		69.9	5		-.3	.1		117	122	4
28S 17W 01CAB 01	QU	61.4	4	-5.8	-.6	.1	-.4	115	119	3
28S 17W 05DDB 01	QU	59.4	6	2.6	.2	.1	.2	98	104	6
28S 17W 15DDB 01	QU	97.4	8	-1.4	-.2	.2	-.1	86	94	9
28S 18W 09BAC 01	QU	65.5	1	-3.8	-.2		-.2	116	117	1
28S 18W 19CCB 01	QU	89.0	14	-1.0	.0	.3	-.1			
28S 18W 26DCA 01	QU									
28S 19W 10AAC 01	TO	94.0			-.3					
28S 19W 30CBC 01	QU	112.7	3	2.3	.8	.1	.1	69	72	4
28S 19W 33CBD 01	QU	133.7	-1	.3	.4			87	86	-1
28S 20W 12BBD 01	QU	56.5	8	-.8	.3	.2	-.1	126	134	6
28S 20W 30ACA 01	QU	41.7	-10	-2.3	.6	-.2	-.1	37	27	-27
29S 16W 02ADB 01		50.0			.1					
29S 17W 04ABC 01	QU	51.6	8	-1.6	.0	.2	-.1	62	70	13
29S 17W 12DAA 01		48.5			-.4					
29S 18W 02ACC 01	TO	142.7			.2				53	
29S 18W 07BBD 01	QU	153.3	2	.2	.3			101	103	2
29S 19W 22BAA 01	QU	156.0	2	1.0	.4		.1	92	94	2
29S 20W 11CDD 01	QU	166.2	4	1.8	.3	.1	.1			

Labette County

TABLE 1. -- SELECTED HYDROLOGIC DATA, LABETTE COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1944	1974	1984	1985	1986	1987	1988	1989	1990
31S 21E 15CCC 02	qM67		836.			7.3	7.6	.3	10.5	6.9	7.6	13.6	7.1

TABLE 2. -- DERIVED HYDROLOGIC DATA, LABETTE COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	1974-90	1989-90	Average annual water-level change (feet/year) 1944-90	1974-90	Saturated thickness (feet) 1944	1989	Percentage change saturated thickness 1944-90
31S 21E 15CCC 02		7.1		.2	6.5					

Lane County

TABLE 1. -- SELECTED HYDROLOGIC DATA, LANE COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
16S 29W 26CCD 01	aJ72	TO	2803.	140	90	89.2	104.7	105.0	105.2	106.5	106.0	107.6	108.6
16S 29W 33BAB 01	aJ88	TO	2812.									109.9	110.1
16S 30W 24DCC 01	aJ72	TO	2840.	155	109		121.5	121.4	120.5	121.9	121.5	122.4	124.9
16S 30W 29CDD 01	aJ72	TO	2884.	174	121		128.6	128.5	127.9	128.4	128.2	128.9	129.5
16S 30W 34DAB 01	aJ77	TO	2857.	172	116		127.5	125.2	123.0	125.9			128.3
17S 27W 20CCC 01	aJ73	TO	2717.	127	84		102.2	102.4			100.5	100.9	100.6
17S 27W 26CCC 01	aJ73	TO	2678.	127	80		96.8	96.7	96.7	96.4	95.7	95.3	96.4
17S 28W 07BBB 01	aJ73	TO	2785.	170	83		99.2	98.5	98.4	99.2	99.5	100.7	101.5
17S 28W 15BBC 01	aJ73	TO	2760.	150	84		104.6	104.8	104.8	105.7	105.6	106.4	107.1
17S 28W 26ABB 01	aJ63	TO	2735.	140	85	88.2	102.9	102.1	102.3	102.5	102.6	103.3	103.4
17S 28W 34CBB 01	aJ77	TO	2747.	132	78		90.3	90.6	90.7	91.0	91.0	91.1	93.0
*17S 29W 03BDC 01	aJ77	TO	2816.	156	102		116.3	114.2	114.8	116.1	115.8		
17S 29W 36BAA 01	aJ73	TO	2784.	119	70		84.9	85.5	85.2	87.0	88.3	88.0	88.6
17S 30W 13CBB 01	aJ48	TO	2846.	151	84	83.9	90.3	90.6	90.8	91.2	91.4	92.7	93.1
*17S 30W 20BBB 01	aJ77	TO	2889.	165	87		101.9	104.2	102.5				127.2
18S 27W 13CCC 01	aJ48	TO	2674.	95	88	86.1	86.5	86.4	86.3	86.2	86.4	86.0	85.7
18S 28W 18ACC 01	aJ72	TO	2764.	95	51			68.3	69.1		67.1	65.9	68.3
18S 29W 04DAD 01	aJ72	TO	2801.	110	56		66.9	66.9	66.5	70.6	67.3	68.9	69.3
18S 30W 02AAA 01	aJ71	TO	2849.	124	68		87.8	86.9	86.3	85.5	88.4	90.5	90.2
18S 30W 04BAB 01	aJ77	TO	2872.	125	69		75.1	74.7	74.8	75.5	75.9	76.7	77.1
18S 30W 23AAA 01	aJ77	TO	2848.	150	55		65.9	64.6	64.4	63.4	64.6	63.7	62.0

TABLE 2. DERIVED HYDROLOGIC DATA, LANE COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
16S 29W 26CCD 01	TO	108.6	-19	-19.4	-1.0	-.5	-.8	50	31	-38
16S 29W 33BAB 01	TO	110.1			-.2					
16S 30W 24DCC 01	TO	124.9	-16		-2.5	-.4		46	30	-35
16S 30W 29CDD 01	TO	129.5	-9		-.6	-.2		53	45	-15
16S 30W 34DAB 01	TO	128.3	-12			-.3		56	44	-21
17S 27W 20CCC 01	TO	100.6	-17		.3	-.4		43	26	-40
17S 27W 26CCC 01	TO	96.4	-16		-1.1	-.4		47	31	-34
17S 28W 07BBB 01	TO	101.5	-19		-.8	-.5		87	69	-21
17S 28W 15BBC 01	TO	107.1	-23		-.7	-.6		66	43	-35
17S 28W 26ABB 01	TO	103.4	-18	-15.2	-.1	-.4	-.6	55	37	-33
17S 28W 34CBB 01	TO	93.0	-15		-1.9	-.4		54	39	-28
*17S 29W 03BDC 01	TO									
17S 29W 36BAA 01	TO	88.6	-19		-.6	-.5		49	30	-39
17S 30W 13CBB 01	TO	93.1	-9	-9.2	-.4	-.2	-.4	67	58	-13
*17S 30W 20BBB 01	TO	127.2	-40			-1.0		78	38	-51
18S 27W 13CCC 01	TO	85.7	2	.4	.3	.1		7	9	29
18S 28W 18ACC 01	TO	68.3	-17		-2.4	-.4		44	27	-39
18S 29W 04DAD 01	TO	69.3	-13		-.4	-.3		54	41	-24
18S 30W 02AAA 01	TO	90.2	-22		.3	-.6		56	34	-39
18S 30W 04BAB 01	TO	77.1	-8		-.4	-.2		56	48	-14
18S 30W 23AAA 01	TO	62.0	-7		1.7	-.2		95	88	-7

Leavenworth County

TABLE 1. -- SELECTED HYDROLOGIC DATA, LEAVENWORTH COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1944	1974	1984	1985	1986	1987	1988	1989	1990
12S 22E 21BCD 01	qM67		793.			21.7	26.4	25.1	26.9	25.8	28.5	30.8	29.6
*12S 22E 22CAA 01	qM67		785.			13.7	21.1	20.8	18.6	19.2	22.6	25.2	24.5

TABLE 2. -- DERIVED HYDROLOGIC DATA, LEAVENWORTH COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	1974-90	1989-90	Average annual water-level change (feet/year) 1944-90	1974-90	Saturated thickness (feet) 1944	1990	Percentage change saturated thickness 1944-90
12S 22E 21BCD 01		29.6		-7.9	1.2		-.5			
*12S 22E 22CAA 01		24.5		-10.8	.7		-.7			

Logan County

TABLE 1. – SELECTED HYDROLOGIC DATA, LOGAN COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
11S 32W 04ACD 01	aJ68	TO	3059.	208	96	102.0	112.8	110.8	111.7	113.6	112.6	110.7	114.3
11S 32W 19AAB 01	aJ75	TO	3073.	183	92		102.3	103.0	103.7	103.3	103.3	104.5	104.3
11S 32W 31CCD 01	aJ84		3054.					70.8	68.7	71.3	70.4	70.1	71.8
11S 32W 36ABA 01	aJ70	TO	3009.					89.2	91.4	89.2	91.9	89.9	93.4
11S 33W 10BDD 01	aJ84		3113.					116.0	116.6		117.0	117.2	117.7
11S 33W 14DCC 01	aJ69	TO	3117.					130.5	131.3		132.3	132.2	
11S 34W 13AAB 01	aJ84	TO	3184.					143.3	143.8	143.9	143.7	144.2	144.3
11S 34W 16CDB 01	aJ59	TO	3218.	170	122	118.4	120.1	121.8	121.1	120.2	120.2	120.5	120.1
11S 35W 01DCC 01	aJ69	TO	3268.					154.1	153.5	152.4	153.1	153.5	153.0
11S 36W 06ADD 02	aJ65	TO	3380.	220	142	137.0	164.6	165.8	167.6	168.9	165.2	166.5	173.0
11S 37W 01DCD 01	aJ79		3369.						168.0	169.6	167.6	169.5	170.7
13S 36W 20CCB 01	aJ70	QA	3023.	30			11.9				9.5	10.9	11.1
15S 37W 29AAA 01	aJ71	TO	3420.	60			32.8	32.1	32.9	33.8	33.4	33.5	33.7

TABLE 2. – DERIVED HYDROLOGIC DATA, LOGAN COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
11S 32W 04ACD 01	TO	114.3	-18	-12.3	-3.6	-.4	-.5	112	94	-16
11S 32W 19AAB 01	TO	104.3	-12		.2	-.3		91	79	-13
11S 32W 31CCD 01		71.8			-1.7					
11S 32W 36ABA 01	TO	93.4			-3.5					
11S 33W 10BDD 01		117.7			-.5					
11S 33W 14DCC 01	TO									
11S 34W 13AAB 01	TO	144.3			-.1					
11S 34W 16CDB 01	TO	120.1	2	-1.7	.4	.1	-.1	48	50	4
11S 35W 01DCC 01	TO	153.0			.5					
11S 36W 06ADD 02	TO	173.0	-31	-36.0	-6.5	-.8	-1.5	78	47	-40
11S 37W 01DCD 01		170.7			-1.2					
13S 36W 20CCB 01	QA	11.1			-.2				19	
15S 37W 29AAA 01	TO	33.7			-.2				26	

McPherson County

TABLE 1. -- SELECTED HYDROLOGIC DATA, MCPHERSON COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1944	1974	1984	1985	1986	1987	1988	1989	1990
*18S 03W 30CCC 01	aJ70	QU	1515.				111.7	112.0	111.2	110.8	111.1	111.8	112.2
*18S 04W 21CCC 01	aJ70	QU	1412.				11.2	10.5	9.6	10.2	9.9	11.4	12.5
*19S 01W 32DAC 01	aJ70	QU	1590.				53.2	47.4	46.2	46.3	45.1	45.1	45.6
*19S 03W 16BCB 01	aJ70	QU	1511.				101.1	101.7	100.5	99.7	104.3	99.6	99.3
*19S 03W 31BBA 01	aJ70	QU	1494.				84.8	81.1	81.2	81.4	79.4	82.2	82.6
*19S 04W 15AAC 01	aJ70		1494.				85.7	85.8	85.8	85.9		85.7	86.1
*20S 01W 22BBB 01	aJ70	QU	1527.				9.5	11.0	7.3	6.9	5.6	9.5	9.7
*20S 01W 29DDD 01	aJ81	QU	1530.				17.7	4.7	6.2	7.3	5.6	8.1	11.0
*20S 03W 22DAA 01	aJ70	QU	1473.				38.4		37.5	37.6	37.5	38.6	39.4
*20S 03W 30BBA 01	aJ70	QU	1476.				52.1	53.4	53.5	52.6	53.7	54.6	55.2
*20S 04W 15BDD 01	aJ70	QU	1474.				54.0	52.7	52.5	53.1		53.8	54.4
*20S 04W 27DAC 01	aJ70	QU	1467.				41.7	43.0	40.7	41.5	41.5	43.7	44.1
*21S 02W 12BBB 01	aJ81	QU	1503.				13.8	11.4	10.3	10.6	10.1	11.8	13.2
21S 02W 28CBA 01	aJ70	QU	1467.				37.9		37.3	35.5	35.3	35.2	36.7
*21S 02W 36ACA 01	aJ80	QU	1475.				12.4	11.2	8.7	9.4	11.1	12.7	12.6
*21S 03W 06CBD 01	aJ70	QU	1464.				44.4	44.8	44.2	43.6	43.1	44.8	45.5
*21S 03W 22BBB 01	aJ70	QU	1450.				33.4	34.6	34.0	33.9	29.8	33.0	34.4
*21S 03W 33BBC 01	aJ70	QU	1461.				55.8	47.7	45.2	43.8	42.6	45.7	46.4
*21S 04W 26CDC 01	aJ70	QU	1445.				31.9	33.8	31.3	30.2	29.2	34.3	34.4

TABLE 2. -- DERIVED HYDROLOGIC DATA, MCPHERSON COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	1974-90	1989-90	Average annual water-level change (feet/year) 1944-90	1974-90	Saturated thickness (feet) 1944	1989	Percentage change saturated thickness 1944-90
*18S 03W 30CCC 01	QU	112.2			-.4					
*18S 04W 21CCC 01	QU	12.5			-1.1					
*19S 01W 32DAC 01	QU	45.6			-.5					
*19S 03W 16BCB 01	QU	99.3			.3					
*19S 03W 31BBA 01	QU	82.6			-.4					
*19S 04W 15AAC 01		86.1			-.4					
*20S 01W 22BBB 01	QU	9.7			-.2					
*20S 01W 29DDD 01	QU	11.0			-2.9					
*20S 03W 22DAA 01	QU	39.4			-.8					
*20S 03W 30BBA 01	QU	55.2			-.6					
*20S 04W 15BDD 01	QU	54.4			-.6					
*20S 04W 27DAC 01	QU	44.1			-.4					
*21S 02W 12BBB 01	QU	13.2			-1.4					
21S 02W 28CBA 01	QU	36.7			-1.5					
*21S 02W 36ACA 01	QU	12.6			.1					
*21S 03W 06CBD 01	QU	45.5			-.7					
*21S 03W 22BBB 01	QU	34.4			-1.4					
*21S 03W 33BBC 01	QU	46.4			-.7					
*21S 04W 26CDC 01	QU	34.4			-.1					

Meade County

TABLE 1. – SELECTED HYDROLOGIC DATA, MEADE COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
30S 26W 04CBB 01	aJ39	QU,TO	2525.	415	11	20.7	46.5	44.7	45.8	48.8	49.8	58.4	58.5
30S 26W 13ABB 01	aJ86		2575.						64.0				67.3
30S 26W 32DDD 01	aJ85		2488.	388	16			19.3	17.9	18.7	17.3	19.7	20.0
30S 27W 20ABA 01	aJ85		2564.					56.0	56.8	60.4	62.7	71.3	69.3
30S 27W 23ABB 01	aJ39	QU,TO	2531.	321	12	16.5	42.7	41.4	42.0	44.4			54.6
30S 27W 27BBB 01	aJ85		2518.						25.5	22.1	24.7	37.3	32.7
30S 27W 32DDD 01	qJ53		2475.	315	26	11.8	7.5	7.0	7.1	7.7	8.1	9.2	7.5
30S 28W 17ABB 01	aJ65	QU,TO	2697.	517	102	109.6	136.7	139.0	141.3	144.7	146.7	164.5	160.9
30S 28W 33AAA 01	aJ85		2646.	466	85			116.5	119.2	120.3	124.2	124.8	126.7
30S 29W 23CAD 01	aJ65	QU,TO	2744.	544	134	141.3	179.3	181.9	178.0	180.0	181.2	184.3	186.6
30S 29W 28BBB 01	aJ59	QU,TO	2758.	553	137	137.8	175.5	175.2	176.2	175.8	177.2	186.8	189.8
30S 30W 06CCC 01	aJ65		2824.	449	152			185.8	199.5	201.3		207.4	210.9
30S 30W 28ABB 01	aJ59	QU,TO	2803.	508	150	145.9	183.6	186.1	188.6	191.7	191.6	205.8	205.7
31S 26W 30BBB 01	aJ75	QU,TO	2516.		98			102.5	102.1	102.0	103.6	105.3	104.8
31S 27W 20AAA 02	aJ75	QU,TO	2466.	326	15		30.0	27.1	27.1	28.1	29.3	37.8	35.3
31S 28W 02CCC 01	aJ84		2623.					123.5	124.4	121.2	122.3	129.1	130.6
31S 28W 10BCB 01	aJ65	QU,TO	2643.	463	114	112.2	134.2	134.7	139.4	136.9	138.5	146.3	
31S 28W 26ABB 01	aJ86		2496.						30.5	27.0		37.4	41.7
31S 29W 02DBB 01	aJ85		2720.	420	130			178.6	175.2	178.0		173.3	174.2
31S 29W 25AAA 02	aJ65	QU,TO	2698.	438	145	156.5	177.7	177.5	178.3	181.2	182.8		188.5
31S 29W 30AAA 01	aJ65	QU,TO	2741.	461	136	130.2	162.5	160.5	169.0	166.7	166.2	173.9	172.9
31S 30W 16BBC 01	aJ65	QU,TO	2770.	505	136	133.9	179.3	182.8	186.3	188.9	191.1	197.7	199.5
32S 28W 04ADD 01	aJ39	QU,TO	2546.	366	63	66.1	72.7	71.6	73.9	71.4	74.4	74.0	73.9
32S 29W 05CC 01	aJ59	QU,TO	2719.	464	139	137.3	164.0	163.2	168.2	167.7	168.6	169.7	159.9
32S 29W 27AAB 02	aJ75	QU,TO	2688.	555	143		146.9	148.5	149.8	149.5	149.4	151.8	152.5
32S 30W 09CCC 01	aJ65	QU,TO	2764.	504	155	156.7	191.1	192.4	192.9	194.3	197.0	202.2	
32S 30W 28BBC 01	aJ65	QU,TO	2759.	459	167	170.2	206.1	205.8	212.9	211.3	206.5	218.0	
33S 28W 29BCB 01	aJ39	TO	2371.	160	14	14.3	15.9	14.4	14.8	15.6	15.3	17.3	15.1
33S 29W 36AAB 01	aJ65	QU,TO	2463.	283	81	81.3	86.5	86.0	87.1	87.2	90.9	94.5	
33S 30W 21ACC 01	aJ85		2725.					180.7	183.2		183.8	204.2	205.9
33S 30W 35CBB 01	aJ59	QU,TO	2684.	544	161	157.8		171.1	179.2	180.3	167.4		
34S 28W 05BDA 01	aJ86		2350.						25.8	24.7	25.2	26.4	25.7
34S 30W 22CBC 01	aJ75	TO,TO	2675.	675	191		196.2	197.1	197.7	198.3	198.5	199.7	200.6
35S 30W 10CDA 01	aJ65	QA,QU,TO	2393.	318	23	23.1	25.5	25.0	25.9	25.4	25.2	26.5	24.9

TABLE 2. -- DERIVED HYDROLOGIC DATA, MEADE COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1940-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1940	Saturated thickness (feet) 1990	Percentage change saturated thickness 1940-90
30S 26W 04CBB 01	QU,TO	58.5	-48	-37.8	-.1	-1.0	-1.6	404	357	-12
30S 26W 13ABB 01		67.3								
30S 26W 32DDD 01		20.0	-4		-.3	-.1		372	368	-1
30S 27W 20ABA 01		69.3			2.0					
30S 27W 23ABB 01	QU,TO	54.6	-43	-38.1		-.9	-1.6	309	266	-14
30S 27W 27BBB 01		32.7			4.6					
30S 27W 32DDD 01		7.5	19	4.3	1.7	.4	.2	289	308	7
30S 28W 17ABB 01	QU,TO	160.9	-59	-51.3	3.6	-1.2	-2.1	415	356	-14
30S 28W 33AAA 01		126.7	-42		-1.9	-.8		381	339	-11
30S 29W 23CAD 01	QU,TO	186.6	-53	-45.3	-2.3	-1.1	-1.9	410	357	-13
30S 29W 28BBB 01	QU,TO	189.8	-53	-52.0	-3.0	-1.1	-2.2	416	363	-13
30S 30W 06CCC 01		210.9	-59		-3.5	-1.2		297	238	-20
30S 30W 28ABB 01	QU,TO	205.7	-56	-59.8	.1	-1.1	-2.5	358	302	-16
31S 26W 30BBB 01	QU,TO	104.8	-7		.5	-.1				
31S 27W 20AAA 02	QU,TO	35.3	-20		2.5	-.4		311	291	-6
31S 28W 02CCC 01		130.6			-1.5					
31S 28W 10BCB 01	QU,TO									
31S 28W 26ABB 01		41.7			-4.3					
31S 29W 02DBB 01		174.2	-44		-.9	-.9		290	246	-15
31S 29W 25AAA 02	QU,TO	188.5	-44	-32.0		-.9	-1.3	293	250	-15
31S 29W 30AAA 01	QU,TO	172.9	-37	-42.7	1.0	-.7	-1.8	325	288	-11
31S 30W 16BBC 01	QU,TO	199.5	-64	-65.6	-1.8	-1.3	-2.7	369	306	-17
32S 28W 04ADD 01	QU,TO	73.9	-11	-7.8	.1	-.2	-.3	303	292	-4
32S 29W 05CC 01	QU,TO	159.9	-21	-22.6	9.8	-.4	-.9	325	304	-6
32S 29W 27AAB 02	QU,TO	152.5	-10		-.7	-.2		412	403	-2
32S 30W 09CCC 01	QU,TO									
32S 30W 28BBC 01	QU,TO									
33S 28W 29BCB 01	TO	15.1	-1	-.8	2.2			146	145	-1
33S 29W 36AAB 01	QU,TO									
33S 30W 21ACC 01		205.9			-1.7					
33S 30W 35CBB 01	QU,TO									
34S 28W 05BDA 01		25.7			.7					
34S 30W 22CBC 01	TO,TO	200.6	-10		-.9	-.2		484	474	-2
35S 30W 10CDA 01	QA,QU	24.9	-2	-1.8	1.6		-.1	295	293	-1

Morton County

TABLE 1. – SELECTED HYDROLOGIC DATA, MORTON COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
31S 39W 18CCC 01	aJ62	QU,TO	3246.	226	116	135.6	191.3			204.8	203.7	214.4	212.9
31S 39W 33BCC 01	aJ67	QU,TO,KJ	3253.	278	123	160.0	222.4	220.6	231.0	224.9	233.2	242.6	228.0
31S 40W 01DA 01	aJ62	QU,TO	3236.	276	111	133.1	180.7	187.1	189.8	191.4	191.2		
31S 40W 29ABB 01	aJ59	QU,TO	3331.	233	141	166.1	182.2		183.6	184.6	183.2	184.7	185.8
31S 41W 07CDD 01	aJ67	KJ	3441.				135.5	135.3	135.6	135.9		135.9	135.5
31S 41W 31CBB 01	aJ67	KJ	3441.			73.0	93.5	91.3	99.2	100.9	94.9	96.1	93.7
31S 42W 29AAB 01	aJ62	QU,TO,KJ	3510.		74	93.1	102.7	102.0	101.1	100.3	101.0	99.1	97.5
31S 43W 03CB 01	aJ60	QU,TO,KJ	3609.		61	65.7	65.2	64.0		64.3	64.5	65.4	66.4
31S 43W 14DDC 01	aJ39	KU	3576.			67.7	69.3	68.2	69.8	70.8	70.2	71.6	71.4
32S 40W 07BDC 01	aJ84		3302.		52		113.3	106.8		109.4	109.3	110.5	111.6
32S 40W 21ADB 01	aJ67	QU,TO	3342.	237	132	156.0	191.3	183.8	191.0	193.7	193.6	199.9	197.8
32S 41W 15CDC 01	aJ67	QU,TO,KJ	3360.			18.0	21.1	21.2	20.0	21.6	22.0	21.7	20.6
32S 41W 35DCC 01	aJ84		3420.				129.3		173.8	168.1	180.3	181.0	182.0
32S 42W 14CCC 01	aJ62	QU,TO,KJ	3500.			90.6	128.6	122.0	127.0	127.8	124.1	129.7	125.4
32S 42W 21BCC 01	aJ59	QU,TO,KJ	3526.	186	64	113.6	158.7	152.6			155.1	168.3	158.5
32S 42W 26CDD 01	aJ67	QU,TO,KJ	3485.	175	75	102.0		153.4		151.0	119.2	121.4	125.0
32S 43W 08CBD 01	aJ84		3615.		45		90.5	89.3	95.1	94.5	93.3	97.7	104.1
32S 43W 17DCC 01	aJ67	TO	3626.	146	60	60.0	75.1	71.6		74.1	73.0	74.9	75.3
32S 43W 28BBC 01	aJ84		3526.				61.4	62.0	63.2	64.4	64.5		65.5
33S 39W 04DBB 01	aJ84	TO	3237.	357	87		99.5	97.1	97.5	97.8	97.8	101.7	102.4
33S 39W 16ABB 01	aJ62	QU,TO	3234.	344	82	70.0	78.7	75.0	76.3	77.2	77.5	86.7	79.5
33S 40W 27CCC 01	aJ67	QU,TO	3308.	323	98	80.0	91.7	84.2	82.7	81.3	81.5	82.2	82.1
33S 41W 03AAD 01	aJ59	QU,TO,KJ	3425.	445	113	117.2	147.3	139.6	144.5	140.9	146.6	148.0	148.8
33S 41W 33DDD 01	aJ63	QU	3377.	157	68	69.4	68.6	68.1	70.4	69.1	68.6	68.0	68.8
33S 42W 05DCC 01	aJ84		3235.				75.7	66.9			70.1		71.5
33S 42W 21BCB 01	aJ67	QU,TO	3527.	167	87	85.0	102.9	88.2	89.2	89.2	88.6	89.5	88.7
33S 43W 08BDA 01	aJ67	QU,TO,KJ	3643.	183	86	95.0	107.8		105.4	105.3	107.3	109.1	
33S 43W 09DBA 01	aJ86		3612.						87.5		88.9	90.4	90.4
34S 39W 06CCA 01	aJ84		3310.	355	140		136.5	121.3	121.0	123.0	120.7	121.8	122.5
34S 40W 16ABB 01	aJ84		3363.	388	163		147.4	144.8	145.1	144.9	144.7	145.9	144.1
34S 41W 26DCD 01	aJ84		3360.	290	120		155.3	157.0	158.2	159.2	160.3	162.0	162.8
34S 41W 28CBA 01	aJ84		3299.				128.8	118.6	119.7	120.1	121.1	121.2	123.1
34S 42W 05BDC 01	aJ59	QU,KJ	3449.	69	31	38.4	40.9	39.3	39.6			39.7	
34S 42W 22CDB 01	aJ67	QU,TO	3492.	112	92				79.4	79.2		79.4	79.6
34S 43W 07BDD 01	aJ63	KJ	3655.		125	147.2	150.3	150.8	149.3	149.5	149.7	149.9	149.2
35S 39W 06CDD 01	aJ84		3330.	510	175		222.7	210.1	211.5	212.8	212.2	229.3	221.1
35S 40W 03BBB 02	qJ87		3369.							178.5	178.7	179.9	180.4
35S 41W 16CCD 01	aJ84		3385.		80		225.9	217.2	215.5	215.6	216.5	225.9	219.1
35S 42W 02DBB 01	aJ84		3554.				102.9	168.2	169.0	169.5	170.1		171.3
35S 43W 04AAC 01	aJ84		3554.	179	76		77.8	79.7	81.1	83.0	78.4		86.6
35S 43W 13BDB 01	aJ71	QU,TO	3615.	305	151		190.2	183.1	184.2	190.3	186.5	192.2	191.1

TABLE 2. – DERIVED HYDROLOGIC DATA, MORTON COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1940-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1940	Saturated thickness (feet) 1990	Percentage change saturated thickness 1940-90
31S 39W 18CCC 01	QU,TO	212.9	-97	-77.3	1.5	-1.9	-3.2	110	13	-88
31S 39W 33BCC 01	QU,TO	228.0	-105	-68.0	14.6	-2.1	-2.8	155	50	-68
31S 40W 01DA 01	QU,TO									
31S 40W 29ABB 01	QU,TO	185.8	-45	-19.7	-1.1	-.9	-.8	92	47	-49
31S 41W 07CDD 01	KJ	135.5			.4					
31S 41W 31CBB 01	KJ	93.7		-20.7	2.4		-.9			
31S 42W 29AAB 01	QU,TO	97.5	-24	-4.4	1.6	-.5	-.2			
31S 43W 03CB 01	QU,TO	66.4	-5	-.7	-1.0	-.1				
31S 43W 14DDC 01	KU	71.4		-3.7	.2		-.2			
32S 40W 07BDC 01		111.6	-60		-1.1	-1.2				
32S 40W 21ADB 01	QU,TO	197.8	-66	-41.8	2.1	-1.3	-1.7	105	39	-63
32S 41W 15CDC 01	QU,TO	20.6		-2.6	1.1		-.1			
32S 41W 35DCC 01		182.0			-1.0					
32S 42W 14CCC 01	QU,TO	125.4		-34.8	4.3		-1.4			
32S 42W 21BCC 01	QU,TO	158.5	-95	-44.9	9.8	-1.9	-1.9	122	28	-77
32S 42W 26CDD 01	QU,TO	125.0	-50	-23.0	-3.6	-1.0	-1.0	100	50	-50
32S 43W 08CBD 01		104.1	-59		-6.4	-1.2				
32S 43W 17DCC 01	TO	75.3	-15	-15.3	-.4	-.3	-.6	86	71	-17
32S 43W 28BBC 01		65.5								
33S 39W 04DBB 01	TO	102.4	-15		-.7	-.3		270	255	-6
33S 39W 16ABB 01	QU,TO	79.5	3	-9.5	7.2	.1	-.4	262	265	1
33S 40W 27CCC 01	QU,TO	82.1	16	-2.1	.1	.3	-.1	225	241	7
33S 41W 03AAD 01	QU,TO	148.8	-36	-31.6	-.8	-.7	-1.3	332	296	-11
33S 41W 33DDD 01	QU	68.8	-1	.6	-.8			89	88	-1
33S 42W 05DCC 01		71.5								
33S 42W 21BCB 01	QU,TO	88.7	-2	-3.7	.8		-.2	80	78	-3
33S 43W 08BDA 01	QU,TO									
33S 43W 09DBA 01		90.4			.0					
34S 39W 06CCA 01		122.5	18		-.7	.4		215	233	8
34S 40W 16ABB 01		144.1	19		1.8	.4		225	244	8
34S 41W 26DCD 01		162.8	-43		-.8	-.9		170	127	-25
34S 41W 28CBA 01		123.1			-1.9					
34S 42W 05BDC 01	QU,KJ									
34S 42W 22CDB 01	QU,TO	79.6	12		-.2	.2		20	32	60
34S 43W 07BDD 01	KJ	149.2	-24	-2.0	.7	-.5	-.1			
35S 39W 06CDD 01		221.1	-46		8.2	-.9		335	289	-14
35S 40W 03BBB 02		180.4			-.5					
35S 41W 16CCD 01		219.1	-139		6.8	-2.8				
35S 42W 02DBB 01		171.3								
35S 43W 04AAC 01		86.6	-11			-.2		103	92	-11
35S 43W 13BDB 01	QU,TO	191.1	-40		1.1	-.8		154	114	-26

Ness County

TABLE 1. -- SELECTED HYDROLOGIC DATA, NESS COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
16S 24W 15ABB 01	aJ75	TO					29.8	30.1	29.8	29.9	29.4	29.7	29.8
18S 21W 25AAB 01	aJ74	QA	2085.				30.0	29.9	29.5	29.2	26.9	28.7	29.3
*18S 21W 31CAA 01	qJ71	QU	2122.				32.6	32.4	32.2	31.6	29.0	30.1	30.5
18S 24W 36ADB 01	aJ74	QA	2235.				34.3	34.4	33.9	32.7	31.5	32.2	32.4
18S 25W 33BBC 01	aJ74	QA	2402.				29.2	29.5	29.5	29.9	27.2	27.5	27.6
18S 26W 06BAB 02	aJ74	QA,TO	2570.				7.2	7.3		7.5	7.0	7.9	7.8
*19S 23W 01CCB 01	aJ71		2214.				88.5	89.9	87.5	88.1	86.9	87.8	88.6
*19S 23W 08CBB 01	qJ65		2220.				21.8	21.9	22.5	22.2	18.6	20.5	21.4
*20S 22W 20CCC 01	qJ40		2189.				44.0	46.3	57.5	57.7	56.0	46.8	47.3
20S 22W 35BCC 01	aJ74	QA	2168.				43.6	44.5	44.8	45.1	43.6	45.4	46.2
*20S 23W 32CDA 01	qJ40		2233.				36.6	37.0	37.2	36.2	35.4	35.9	36.7
20S 26W 07BDC 01	aJ74	QA	2538.				24.6	23.1	23.3	21.9	19.7	24.4	23.2

TABLE 2. -- DERIVED HYDROLOGIC DATA, NESS COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-90	1966-90	1989-90	1950-90	1966-90	1950	1990	1950-90
16S 24W 15ABB 01	TO	29.8			-.1					
18S 21W 25AAB 01	QA	29.3			-.6					
*18S 21W 31CAA 01	QU	30.5			-.4					
18S 24W 36ADB 01	QA	32.4			-.2					
18S 25W 33BBC 01	QA	27.6			-.1					
18S 26W 06BAB 02	QA,TO	7.8			.1					
*19S 23W 01CCB 01		88.6			-.8					
*19S 23W 08CBB 01		21.4			-.9					
*20S 22W 20CCC 01		47.3			-.5					
20S 22W 35BCC 01	QA	46.2			-.8					
*20S 23W 32CDA 01		36.7			-.8					
20S 26W 07BDC 01	QA	23.2			1.2					

Norton County

TABLE 1. -- SELECTED HYDROLOGIC DATA, NORTON COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
01S 21W 17AAA 01	aD76		2290.						85.3	84.9	83.6	83.6	83.4
01S 23W 15AAA 01	aD76		2340.						33.2	32.7	32.3	32.1	32.4
01S 24W 13BCB 01	aD76		2425.						116.3	116.1	115.7	115.3	115.2
01S 25W 25BBB 01	aD85		2405.						42.8	43.8	43.6	43.2	43.2
02S 21W 33CCC 01	aD76								94.2	94.2	93.7	93.5	93.6
02S 23W 22AAA 01	aD76		2378.						75.6	75.3	74.9	75.1	74.7
02S 25W 14AAA 01	aD76								142.4	141.8	141.9	141.5	141.5
04S 23W 03DDD 01	aD76								90.4	90.3	89.8	89.5	89.3
04S 23W 26CCC 01	aD76								46.1	46.1	45.8	45.7	45.8
04S 25W 13CCC 01	aD76								120.1	119.8	119.2	118.6	118.5

TABLE 2. -- DERIVED HYDROLOGIC DATA, NORTON COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
01S 21W 17AAA 01		83.4			.2					
01S 23W 15AAA 01		32.4			-.3					
01S 24W 13BCB 01		115.2			.1					
01S 25W 25BBB 01		43.2			.0					
02S 21W 33CCC 01		93.6			-.1					
02S 23W 22AAA 01		74.7			.4					
02S 25W 14AAA 01		141.5			.0					
04S 23W 03DDD 01		89.3			.2					
04S 23W 26CCC 01		45.8			-.1					
04S 25W 13CCC 01		118.5			.1					

Osborne County

TABLE 1. -- SELECTED HYDROLOGIC DATA, OSBORNE COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
06S 12W 23CDC 01	qM45		1505.			23.0	25.7	25.3	25.3	24.5	22.0	23.6	23.1
07S 12W 28ABA 01	qM46							35.8	32.7	32.2	30.4		
07S 15W 10CCC 01	qM64		1648.			17.2	17.4	17.6	17.6	17.4	16.5		17.7

TABLE 2. -- DERIVED HYDROLOGIC DATA, OSBORNE COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
06S 12W 23CDC 01		23.1		-.1	.5					
07S 12W 28ABA 01										
07S 15W 10CCC 01		17.7		-.5						

Pawnee County

TABLE 1. -- SELECTED HYDROLOGIC DATA, PAWNEE COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1944	1974	1984	1985	1986	1987	1988	1989	1990
21S 15W 11CBB 01	aJ73	QA	1932.		3	4.9	10.1	9.8	9.5	10.2	8.9	10.1	9.8
21S 15W 31BAD 01	aJ73	QU	1972.		8	10.3	17.7	18.8	18.3	18.0	16.7		19.4
21S 16W 14ADC 01	aJ85		1970.		5			16.6	15.9	16.1	13.8	16.3	15.6
21S 18W 32DAA 01	qJ63	QA	2056.		19	16.5	30.6	32.6	32.7	32.3	28.4	31.7	31.6
21S 19W 27CCC 01	aJ44		2076.		23		38.9	43.8	44.1	44.6	42.9	45.6	46.5
21S 19W 30BCC 01	qJ65		2087.		29	33.3	45.5	46.5	47.3	47.8	46.4	48.8	49.9
21S 20W 29BBB 01	qJ65		2104.		24	34.8	45.1	47.2	46.0	46.3	47.3	47.4	48.7
22S 15W 03AAA 01	aJ73	QU	1970.	207	18	15.5	27.1	28.3	28.9	29.4	28.7	29.9	30.6
22S 15W 03AAA 02	qJ73	QU	1970.	207		18.7	29.2	30.4	30.5	30.8	30.1	31.9	32.5
22S 15W 09CCA 01	aJ88	QU	1989.									34.1	34.8
22S 15W 13DCA 01	aJ69	QU	1976.	171	29	17.5	35.9	37.7	37.8	37.7	37.2		40.3
22S 15W 20CDC 01	aJ69	QU	2004.	179	26	15.6	29.7	31.8	31.9	32.2	31.9		
22S 15W 33DDD 01	aJ85		2003.	128	28			34.4	34.3	33.3	32.8	35.4	36.6
22S 16W 03CBC 02	aJ73	QA	1996.		8	9.4	14.7	15.4	14.9	14.0	13.6	15.4	15.9
22S 16W 06BBA 01	qJ61	QA	2010.		8	14.6	18.2	18.3	18.1	17.7	16.9	19.0	17.8
22S 16W 23AAA 01	qJ70	QU	2011.	106	24	21.8	35.0	35.9	36.6	36.7	36.2	38.1	38.3
22S 16W 32CDD 01	aJ85		2047.					31.4	31.7	30.5	29.4	32.5	34.2
22S 17W 05BBC 02	aJ81		2036.		15		24.8	26.7	26.7	25.3	21.6	26.8	26.4
22S 17W 18AAD 01	qJ64	QU	2047.		27		37.8	39.6	38.8	36.4	33.5	38.1	38.6
22S 17W 24CBC 01	aJ71	QA	2034.		12	5.6	10.3			10.6	9.3	10.7	11.4
22S 17W 27BAB 01	aJ88											7.7	8.2
22S 19W 07AAA 01	qJ77		2102.				66.3	64.1	63.1	61.6	58.0	67.2	65.4
22S 19W 10BBA 01	qJ78		2087.				54.6	56.1	55.6	55.7	52.9	58.1	58.0
23S 15W 12DDB 01	aJ86		1974.	145					30.4	28.8	29.6	32.4	32.4
23S 15W 18DDB 01	aJ73	QU	2035.	133	8	20.7		36.3	36.7	36.0	35.8		
23S 15W 21DCC 01	aJ88		2030.									34.1	36.1
23S 16W 11CDC 01	aJ88	QU	2038.									25.9	26.6
23S 16W 16BAB 01	aJ73	QU	2048.	123	13	8.1	19.2	20.5	20.6	19.0	18.5		
23S 16W 35CCD 02	qJ81						27.0	29.3	29.3	28.6	26.7	30.3	31.3
23S 17W 10CDB 01	aJ68	QU	2091.	91	29	25.4	36.7		38.1	38.0	36.1	37.7	39.0
23S 17W 25ADC 01	aJ73	QU	2076.	126	11	12.7	21.7		23.7	25.8		24.4	
23S 17W 33CCA 01	aJ63	QU	2109.	119	22	16.4	27.6	28.5	29.3	28.3	26.7	29.4	
23S 18W 28DAD 01	qJ73	QU	2102.	51	5	6.3	9.3	8.8	8.9	8.3	8.4	9.4	9.0
23S 18W 36DAC 01	aJ61	QU	2116.	96	21	8.2	24.9	25.9	25.8	24.4	21.1	24.2	25.8

TABLE 2. -- DERIVED HYDROLOGIC DATA, PAWNEE COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	1974-90	1989-90	Average annual water-level change (feet/year) 1944-90	1974-90	Saturated thickness (feet) 1944	1990	Percentage change saturated thickness 1944-90
21S 15W 11CBB 01	QA	9.8	-7	-4.9	.3	-.2	-.3			
21S 15W 31BAD 01	QU	19.4	-11	-9.1		-.2	-.6			
21S 16W 14ADC 01		15.6	-11		.7	-.2				
21S 18W 32DAA 01	QA	31.6	-13	-15.1	.1	-.3	-.9			
21S 19W 27CCC 01		46.5	-24		-.9	-.5				
21S 19W 30BCC 01		49.9	-21	-16.6	-1.1	-.5	-1.0			
21S 20W 29BBB 01		48.7	-25	-13.9	-1.3	-.5	-.9			
22S 15W 03AAA 01	QU	30.6	-13	-15.1	-.7	-.3	-.9	189	176	-7
22S 15W 03AAA 02	QU	32.5		-13.8	-.6		-.9		175	
22S 15W 09CCA 01	QU	34.8			-.7					
22S 15W 13DCA 01	QU	40.3	-11	-22.8		-.2	-1.4	142	131	-8
22S 15W 20CDC 01	QU									
22S 15W 33DDD 01		36.6	-9		-1.2	-.2		100	91	-9
22S 16W 03CBC 02	QA	15.9	-8	-6.5	-.5	-.2	-.4			
22S 16W 06BBA 01	QA	17.8	-10	-3.2	1.2	-.2	-.2			
22S 16W 23AAA 01	QU	38.3	-14	-16.5	-.2	-.3	-1.0	82	68	-17
22S 16W 32CDD 01		34.2			-1.7					
22S 17W 05BBC 02		26.4	-11		.4	-.2				
22S 17W 18AAD 01	QU	38.6	-12		-.5	-.3				
22S 17W 24CBC 01	QA	11.4	1	-5.8	-.7		-.4			
22S 17W 27BAB 01		8.2			-.5					
22S 19W 07AAA 01		65.4			1.8					
22S 19W 10BBA 01		58.0			.1					
23S 15W 12DDB 01		32.4			.0				113	
23S 15W 18DDB 01	QU									
23S 15W 21DCC 01		36.1			-2.0					
23S 16W 11CDC 01	QU	26.6			-.7					
23S 16W 16BAB 01	QU									
23S 16W 35CCD 02		31.3			-1.0					
23S 17W 10CDB 01	QU	39.0	-10	-13.6	-1.3	-.2	-.9	62	52	-16
23S 17W 25ADC 01	QU									
23S 17W 33CCA 01	QU									
23S 18W 28DAD 01	QU	9.0	-4	-2.7	.4	-.1	-.2	46	42	-9
23S 18W 36DAC 01	QU	25.8	-5	-17.6	-1.6	-.1	-1.1	75	70	-7

Pottawatomie County

TABLE 1. -- SELECTED HYDROLOGIC DATA, POTTAWATOMIE COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
09S 11E 19CDB 01	qM74						31.5	30.9	29.9		32.0	34.5	33.7
09S 11E 27CAA 01	qM77						22.6	20.8	18.9				
09S 11E 31DCC 01	qM59		962.			15.3	14.7	15.1	15.1	14.5	15.7	17.6	17.1
09S 11E 32ADC 01	qM77		968.				21.6	21.8	20.3	19.1	22.0	25.1	24.1
09S 11E 35DDD 01	qM66		956.			17.9	17.4	16.8	14.8	14.1	15.0	20.4	
10S 10E 10DBC 01	qM66		973.			20.6	19.8	18.9	19.3	18.7	20.6	22.5	21.6
10S 11E 03BCA 01	qM77		963.				20.0	19.3	18.2	18.1	20.9	25.9	23.6
10S 11E 04ACB 01	qM67		968.				26.2	25.4	26.3	24.1	27.2	31.4	32.0
10S 12E 07BBC 01	qM74						15.8	15.7	15.8		16.7	18.9	16.9

TABLE 2. -- DERIVED HYDROLOGIC DATA, POTTAWATOMIE COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
09S 11E 19CDB 01		33.7			.8					
09S 11E 27CAA 01										
09S 11E 31DCC 01		17.1		-1.8	.5		-.1			
09S 11E 32ADC 01		24.1			1.0					
09S 11E 35DDD 01										
10S 08E 14CBA 01										
10S 10E 10DBC 01		21.6		-1.0	.9					
10S 11E 03BCA 01		23.6			2.3					
10S 11E 04ACB 01		32.0			-.6					
10S 12E 07BBC 01		16.9			2.0					

Pratt County

TABLE 1. -- SELECTED HYDROLOGIC DATA, PRATT COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1944	1974	1984	1985	1986	1987	1988	1989	1990
26S 11W 01DDB 01	aJ73	QU	1801.	171	23	23.5	25.3	24.2	23.1	22.9	21.1	23.8	22.7
26S 11W 27AAC 01	aJ64	QU	1808.	143	23	23.1	24.3	23.2	21.7	21.9	19.7	23.2	23.2
26S 11W 29BCB 01	aJ64	QU	1830.	183	19	16.0	16.6	15.4	13.2	13.2	11.5	14.4	13.6
26S 12W 02DBD 01	aJ64	QU	1868.	192	27	27.4	28.4	27.8	25.5	24.5	21.2		
26S 12W 17CCA 01	aJ64	QU	1906.	196	37	34.1	36.6	35.0	32.0	31.3	28.3	31.6	31.1
26S 12W 34CDC 01	aJ64	QU	1884.	207	46	43.2	45.2	43.2	41.0	41.7	39.5	42.3	32.8
26S 12W 34CDC 02	aJ64	QU	1884.	207	46	41.0	43.9	41.9	40.0	40.7	34.2	41.5	40.6
26S 13W 16DAA 01	aJ67	QU	1929.	174	20	15.6	25.1	24.9	21.3	20.6	17.3	21.5	20.7
26S 13W 19BBD 01	aJ63	QU	1953.	193	18	14.4	26.9	27.3	24.0	23.7	19.1	23.0	22.9
26S 13W 34BCB 01	qJ59	QU	1950.	230	44	46.7	53.0	52.8	49.9	49.2	46.3	48.2	48.7
26S 14W 17DCB 01	qJ60	QU	2010.	213	10	16.5	27.8	30.4	27.1	26.7	22.0	27.3	28.6
26S 15W 01AAB 01	aJ86		2020.							22.5	18.8	23.0	23.3
26S 15W 17BBC 01	aJ88		2050.									21.7	22.1
27S 11W 12CBC 01	aJ74	QU	1783.	99	51	46.3	44.8	45.3	44.3	45.3	41.3	43.6	47.3
27S 11W 31DAA 01	aJ64	QA	1726.	126	8	2.7	5.6		4.7	4.9	4.3	5.7	5.7
27S 12W 12DAA 01	qJ80						55.8	55.1	54.2	54.2	50.5	53.4	55.0
27S 12W 33CBA 01	aJ64	QU	1777.	152	3	1.2	3.1	2.8	2.4	2.4	2.4	3.4	3.3
27S 13W 13DDC 01	aJ64	QU	1897.	145	72	57.0	58.5	58.5	57.1	56.9	55.4	57.0	57.2
27S 14W 03DAC 01	aJ79	QU	1995.	220	35		45.8	46.4	43.8	44.0	39.8	43.5	43.6
27S 14W 12DDD 01	qJ74	QU	1983.	252	53	57.7	63.3	63.7	62.3	61.6	60.0	60.5	60.5
*27S 14W 21CAB 01	aJ64	QU	1998.	203	39	34.2	43.9	48.4	43.4	43.0	41.0	43.4	43.4
27S 15W 02ABC 01	aJ82	QU	2036.		26		32.0	33.9	30.5	30.4	29.7	32.0	32.8
27S 15W 05CDB 01	aJ87		2070.								25.9	29.4	30.5
27S 15W 32CCA 01	au73	QU	2068.	193	48	45.9	54.3	53.7	56.5	52.6	51.0	52.4	
27S 15W 36ADD 01	aJ73	QU	2050.	245	75	73.7	75.7	77.1	76.3	75.7	73.6	75.5	75.9
28S 11W 12ACC 01	aJ73	QU	1755.	155	36	32.1	35.8	35.2	32.4	33.6	32.4	34.6	36.0
28S 11W 20CAC 01	qJ79		1840.	215	70		70.3	70.4	67.7	67.7	65.9	67.5	69.9
28S 12W 21BAD 01	aJ64	QU	1882.	207	83	81.8	82.5	82.7	81.7	81.3	85.1	80.7	81.6
28S 12W 34CCC 01	aJ88		1902.									100.6	100.5
28S 13W 02DDC 01	aJ73	QU	1827.	179	9	8.1	12.8	14.2	14.6	13.1	12.6	14.4	13.1
28S 13W 17AAA 01	aJ64	QU	1938.	189	72	72.0	71.0	71.3	69.2	75.6	69.6	69.7	70.3
28S 13W 26DCB 01	aJ64	QU	1916.	191	89	91.0	93.7	99.6	90.3	92.6	89.2	89.4	89.6
28S 14W 14CCC 01	aJ64	QU	1984.	194	80	76.9	78.2	78.3	77.0	77.1	75.6	77.3	77.4
28S 15W 23CCD 01	aJ73	QU	2071.	271	109	108.0	107.3	107.7	107.2	108.5	107.7	108.8	106.7
*29S 11W 06AAA 01	aJ84		1828.	173	50		45.5	45.6	42.2	42.2	40.3	42.0	43.7
29S 11W 09ADD 01	aJ64	QU	1830.	170	55	48.9	54.4	54.1	50.7	51.5	49.7	52.6	54.0
29S 11W 29AAD 01	aJ73	QU	1849.	199	63	57.4	62.0	61.7	57.9	58.7	57.6	59.2	60.8
29S 12W 20CCD 01	qJ66	QU	1907.	232	95	98.4	109.4	99.9	97.5	97.1	96.0	98.0	97.1
*29S 13W 12ABB 01	aJ84		1906.	196	76		71.3	71.1	70.4	69.9	68.9	69.3	69.7
29S 13W 31CAA 01	aJ64	QU	1893.	154	31	30.6	32.0	31.9	30.8	30.2	29.5	30.4	29.9
*29S 14W 12ABB 01	aJ84		1988.	233	108		99.9	100.8	99.6	99.0	98.6	98.5	98.6
29S 14W 17DBD 01	aJ79		2012.	222	102		98.0	98.5	97.5	97.0	96.5	96.6	96.6
29S 15W 02CCA 01	aJ73	QU	2035.	215	78	85.2	92.4	93.5	93.4	93.3		93.1	96.5
29S 15W 18ADA 01	aJ73	QU	2050.	175	78	86.0	91.9	98.2	91.8	90.9	89.7	84.9	
29S 15W 25AAB 02	aJ86			117					33.8	33.4	32.7	33.6	33.5

TABLE 2. -- DERIVED HYDROLOGIC DATA, PRATT COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	Water-level change (feet) 1974-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1944-90	Average annual water-level change (feet/year) 1974-90	Saturated thickness (feet) 1944	Saturated thickness (feet) 1990	Percentage change saturated thickness 1944-90
26S 11W 01DDB 01	QU	22.7	0	.8	1.1		.1	148	148	0
26S 11W 27AAC 01	QU	23.2	0	-.1	.0			120	120	0
26S 11W 29BCB 01	QU	13.6	5	2.4	.8	.1	.1	164	169	3
26S 12W 02DBD 01	QU									
26S 12W 17CCA 01	QU	31.1	6	3.0	.5	.1	.2	159	165	4
26S 12W 34CDC 01	QU	32.8	13	10.4	9.5	.3	.6	161	174	8
26S 12W 34CDC 02	QU	40.6	5	.4	.9	.1		161	166	3
26S 13W 16DAA 01	QU	20.7	-1	-5.1	.8		-.3	154	153	-1
26S 13W 19BBD 01	QU	22.9	-5	-8.5	.1	-.1	-.5	175	170	-3
26S 13W 34BCB 01	QU	48.7	-5	-2.0	-.5	-.1	-.1	186	181	-3
26S 14W 17DCB 01	QU	28.6	-19	-12.1	-1.3	-.4	-.8	203	184	-9
26S 15W 01AAB 01		23.3			-.3					
26S 15W 17BBC 01		22.1			-.4					
26S 15W 18DAB 01	QU									
27S 11W 12CBC 01	QU	47.3	4	-1.0	-3.7	.1	-.1	48	52	8
27S 11W 31DAA 01	QA	5.7	2	-3.0	.0		-.2	118	120	2
27S 12W 12DAA 01		55.0			-1.6					
27S 12W 33CBA 01	QU	3.3	0	-2.1	.1		-.1	149	149	0
27S 13W 13DDC 01	QU	57.2	15	-.2	-.2	.3		73	88	21
27S 14W 03DAC 01	QU	43.6	-9		-.1	-.2		185	176	-5
27S 14W 12DDD 01	QU	60.5	-8	-2.8	.0	-.2	-.2	199	192	-4
*27S 14W 21CAB 01	QU	43.4	-4	-9.2	.0	-.1	-.6	164	160	-2
27S 15W 02ABC 01	QU	32.8	-7		-.8	-.2				
27S 15W 05CDB 01		30.5			-1.1					
27S 15W 32CCA 01	QU									
27S 15W 36ADD 01	QU	75.9	-1	-2.2	-.4		-.1	170	169	-1
28S 11W 12ACC 01	QU	36.0	0	-3.9	-1.4		-.2	119	119	0
28S 11W 20CAC 01		69.9	0		-2.4			145	145	0
28S 12W 21BAD 01	QU	81.6	1	.2	-.9			124	125	1
28S 12W 34CCC 01		100.5			.1					
28S 13W 02DDC 01	QU	13.1	-4	-5.0	1.3	-.1	-.3	170	166	-2
28S 13W 17AAA 01	QU	70.3	2	1.7	-.6		.1	117	119	2
28S 13W 26DCB 01	QU	89.6	-1	1.4	-.2		.1	102	101	-1
28S 14W 14CCC 01	QU	77.4	3	-.5	-.1	.1		114	117	3
28S 15W 23CCD 01	QU	106.7	2	1.3	2.1		.1	162	164	1
*29S 11W 06AAA 01		43.7	6		-1.7	.1		123	129	5
29S 11W 09ADD 01	QU	54.0	1	-5.1	-1.4		-.3	115	116	1
29S 11W 29AAD 01	QU	60.8	2	-3.4	-1.6		-.2	136	138	1
29S 12W 20CCD 01	QU	97.1	-2	1.3	.9		.1	137	135	-1
*29S 13W 12ABB 01		69.7	6		-.4	.1		120	126	5
29S 13W 31CAA 01	QU	29.9	1	.7	.5			123	124	1
*29S 14W 12ABB 01		98.6	9		-.1	.2		125	134	7
29S 14W 17DBD 01		96.6	5		.0	.1		120	125	4
29S 15W 02CCA 01	QU	96.5	-19	-11.3	-3.4	-.4	-.7	137	119	-13
29S 15W 18ADA 01	QU									
29S 15W 25AAB 02		33.5			.1				84	

Rawlins County

TABLE 1. -- SELECTED HYDROLOGIC DATA, RAWLINS COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
01S 33W 29CCC 01	aJ60	TO	2992.	144	115	115.6	113.5	113.5	113.3	112.8	112.8	115.1	112.2
02S 31W 03CAD 01	aJ65	QA	2665.	42	15	14.7	16.5	16.8	16.4	17.7	17.7	18.6	17.1
02S 32W 20DCD 01	aJ65	QA	2735.	32	5	8.3	11.6	10.7	10.6	12.2	12.1	12.8	11.8
02S 33W 26DCC 01	aJ65	QA	2798.	46	13	19.8	22.8	23.0	22.3	23.4	23.6	24.2	23.1
02S 35W 13ABB 01	aJ52	TO	3178.	208	174	170.3		169.4	168.9	168.6		168.5	168.2
02S 35W 34CAA 01	aJ52	QA,TO	3064.	112	29	29.6	30.8		30.8		30.1	31.1	31.3
02S 36W 13DDD 01	aJ64	TO	3286.	260	186	190.1	190.3	189.4	188.9	187.8	188.3		197.4
02S 36W 15CDD 01	aJ64	TO	3334.	290	204	203.8	202.6	198.6	202.3				
02S 36W 36BAA 01	aJ65	TO	3263.	280	160	169.8	174.5	174.6	174.6	174.6	174.6	174.4	173.9
03S 31W 07CBD 01	aJ59	TO	2960.	200	142	146.3	146.6	145.8	145.1		144.5		145.2
03S 31W 23BBB 01	aJ52	TO	2849.	119	73	73.1	73.2	73.3	73.4				
03S 33W 03DCC 01	aJ59	QA	2823.	62	22	20.6	26.1	25.7	25.0	26.6	25.8	26.9	25.8
03S 33W 08CDC 01	aJ64	QA	2855.	52	20	16.1	20.9	20.2	19.1	21.5	21.7	22.5	23.0
03S 34W 03ABB 01	aJ64	QA	2882.	40	12	13.8	13.8	14.4	13.8	14.8	14.2	16.6	14.4
03S 34W 26BAC 01	aJ64	QA	2900.	40	7	8.4	11.1	10.2	15.0		10.6	14.3	10.0
03S 35W 24CBB 01	aJ65	QA	3001.	50	21	24.7	26.5	26.8	27.1	27.4	26.9	27.5	27.3
03S 36W 14CBB 01	aJ65	TO	3332.	309	188	191.2	200.2	200.8	200.3	201.1	201.9	212.9	200.3
03S 36W 17CCC 01	aJ62	TO	3375.	300	196	195.3	207.1	206.8	209.2	210.2	211.3	219.2	211.7
03S 36W 21DBC 01	aJ87	TO	3345.								199.3	198.8	202.5
04S 31W 16ABD 01	aJ65	QA	2761.	50	7	7.9	10.9	7.1	10.7	11.5	10.7	11.2	11.7
04S 31W 25DDD 01	aJ56	QA	2755.	32	15	14.6	17.6	16.3	16.6	16.1			
04S 33W 10ABC 01	aJ85		3086.					146.7	143.5	143.9	143.3	144.1	143.1
04S 33W 18DDA 01	aJ52	TO	3068.	153	88	87.6	86.5	86.2	86.5	85.8	85.5	87.4	85.4
04S 33W 28DCA 01	aJ64	TO	3125.	237	152	151.2	150.6	150.2	151.3	149.3	149.0		150.6
04S 34W 33CBC 01	aJ64	TO	3160.	210	115	117.2	116.7	118.9	118.4	120.8	118.8	126.8	119.9
04S 35W 06DCD 01	aJ52	TO	3252.	260	157	157.8		163.3	161.9			164.2	164.2
04S 35W 13DAD 01	aJ64	QA	3002.	51	13	15.0	15.8	16.1	16.1	15.2	15.7		
04S 35W 29DDD 01	aJ52	TO	3219.	224	150	150.1	150.9	150.6	149.8	149.7	148.4	149.6	150.5
04S 36W 23CBB 01	aJ67	TO	3351.					216.1	215.2	215.9	215.2	215.5	216.7
04S 36W 23DCA 01	aJ85		3339.					212.7	211.9	212.6	212.6	212.1	212.3
05S 31W 10DDA 01	aJ64	TO	2820.	70	30	40.1	42.7	42.9	42.6	41.5	41.7	44.0	44.7
05S 31W 20CCA 01	aJ65	TO	2865.	68	22	29.7	35.6	36.2	33.0	33.2	31.5		35.9
05S 32W 14CDD 01	aJ64	TO	3020.	180	130	130.8	130.3	131.2	133.6	130.2	130.0	129.8	130.3
05S 33W 29BDA 01	aJ64	TO	3042.	115	12	17.0	17.5	17.2	17.9	19.0	18.9	19.3	20.1
05S 34W 01BBB 01	aJ52	TO	3137.	237	116	114.3	113.5	115.5	114.6	114.1	113.8	113.8	113.7
05S 34W 28ADC 01	aJ65	TO	3207.	247	127	134.1	134.9	133.8	133.5	132.8	132.9	142.9	140.8
05S 35W 10CDD 01	aJ52	TO	3267.	277	167	165.8	167.5	167.3	166.9	167.1	167.0		
05S 35W 30CBC 01	aJ85		3336.					170.5	171.2	170.2	170.3	171.2	171.5
05S 36W 21BCD 01	aJ64	QA,TO	3220.	155	17	15.5	13.7		18.0	19.0		19.3	18.2

TABLE 2. -- DERIVED HYDROLOGIC DATA, RAWLINS COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1950-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1950	Saturated thickness (feet) 1990	Percentage change saturated thickness 1950-90
01S 33W 29CCC 01	TO	112.2	3	3.4	2.9	.1	.1	29	32	10
02S 31W 03CAD 01	QA	17.1	-2	-2.4	1.5	-.1	-.1	27	25	-7
02S 32W 20DCD 01	QA	11.8	-7	-3.5	1.0	-.2	-.1	27	20	-26
02S 33W 26DCC 01	QA	23.1	-10	-3.3	1.1	-.3	-.1	33	23	-30
02S 35W 13ABB 01	TO	168.2	6	2.1	.3	.1	.1	34	40	18
02S 35W 34CAA 01	QA,TO	31.3	-2	-1.7	-.2	-.1	-.1	83	81	-2
02S 36W 13DDD 01	TO	197.4	-11	-7.3		-.3	-.3	74	63	-15
02S 36W 15CDD 01	TO									
02S 36W 36BAA 01	TO	173.9	-14	-4.1	.5	-.4	-.2	120	106	-12
03S 31W 07CBD 01	TO	145.2	-3	1.1		-.1		58	55	-5
03S 31W 23BBB 01	TO									
03S 33W 03DCC 01	QA	25.8	-4	-5.2	1.1	-.1	-.2	40	36	-10
03S 33W 08CDC 01	QA	23.0	-3	-6.9	-.5	-.1	-.3	32	29	-9
03S 34W 03ABB 01	QA	14.4	-2	-.6	2.2	-.1		28	26	-7
03S 34W 26BAC 01	QA	10.0	-3	-1.6	4.3	-.1	-.1	33	30	-9
03S 35W 24CBB 01	QA	27.3	-6	-2.6	.2	-.1	-.1	29	23	-21
03S 36W 14CBB 01	TO	200.3	-12	-9.1	12.6	-.3	-.4	121	109	-10
03S 36W 17CCC 01	TO	211.7	-16	-16.4	7.5	-.4	-.7	104	88	-15
03S 36W 21DBC 01	TO	202.5			-3.7					
04S 31W 16ABD 01	QA	11.7	-5	-3.8	-.5	-.1	-.2	43	38	-12
04S 31W 25DDD 01	QA									
04S 33W 10ABC 01		143.1			1.0					
04S 33W 18DDA 01	TO	85.4	3	2.2	2.0	.1	.1	65	68	5
04S 33W 28DCA 01	TO	150.6	1	.6				85	86	1
04S 34W 33CBC 01	TO	119.9	-5	-2.7	6.9	-.1	-.1	95	90	-5
04S 35W 06DCD 01	TO	164.2	-7	-6.4	.0	-.2	-.3	103	96	-7
04S 35W 13DAD 01	QA									
04S 35W 29DDD 01	TO	150.5	-1	-.4	-.9			74	74	0
04S 36W 23CBB 01	TO	216.7			-1.2					
04S 36W 23DCA 01		212.3			-.2					
05S 31W 10DDA 01	TO	44.7	-15	-4.6	-.7	-.4	-.2	40	25	-38
05S 31W 20CCA 01	TO	35.9	-14	-6.2		-.4	-.3	46	32	-30
05S 32W 14CDD 01	TO	130.3	0	.5	-.5			50	50	0
05S 33W 29BDA 01	TO	20.1	-8	-3.1	-.8	-.2	-.1	103	95	-8
05S 34W 01BBB 01	TO	113.7	2	.6	.1	.1		121	123	2
05S 34W 28ADC 01	TO	140.8	-14	-6.7	2.1	-.4	-.3	120	106	-12
05S 35W 10CDD 01	TO									
05S 35W 30CBC 01		171.5			-.3					
05S 36W 21BCD 01	QA,TO	18.2	-1	-2.7	1.1		-.1	138	137	-1

Reno County

TABLE 1. -- SELECTED HYDROLOGIC DATA, RENO COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1944	1974	1984	1985	1986	1987	1988	1989	1990
22S 04W 12CDA 01	aJ70	QU	1449.				36.1	40.2	32.8	32.7	31.3	37.6	36.2
22S 04W 32BBC 01	aJ71	QU	1510.				11.1		12.7	14.0	15.3	18.7	14.6
22S 05W 17BCC 01	aJ84							9.8	6.7	6.7	7.3	10.2	7.5
22S 05W 33DBD 01	aJ84		1598.					18.9	18.0	18.4			
22S 06W 18BCB 01	aJ84							9.6	7.6	9.1	8.7	10.5	7.7
22S 06W 28CCB 01	qJ82						9.1	9.1	8.3	8.8	8.8	9.7	9.1
22S 07W 17DCB 01	aJ73	QU	1596.			2.0		4.6	4.8	4.6	3.5	5.6	4.0
22S 08W 09DBB 01	aJ73	QU	1670.		35		32.0	32.4	31.3	32.9	31.5	33.7	30.2
22S 08W 23DAD 01	aJ73	QU	1651.			29.3	29.5	28.5	28.2	29.4	27.0	29.4	25.7
*22S 08W 33CCD 01	aJ49	QU	1658.			4.2	7.5	6.9	5.4				
22S 09W 03BBD 01	aJ73	QU	1712.		20	29.1	34.0	35.5	33.4	34.4	31.5	35.8	31.9
22S 09W 17BAB 01	aJ73	QU	1732.		10	9.8	19.0	20.8	17.1	19.8	16.5	21.9	16.7
22S 09W 25BBA 01	aJ73	QU	1705.			18.9		22.1	21.8	22.8	20.9	24.1	21.1
22S 10W 02DCC 01	aJ73	QU	1736.		12	1.6	9.9	10.5	7.4	9.9	7.9	12.6	9.1
22S 10W 08BBB 01	aJ74	QU	1764.		6	5.9	14.1	14.9	12.8	14.2	13.6	17.0	15.1
22S 10W 30DAA 01	aJ74	QU	1775.		10	3.9	11.8	13.0	9.2	9.5	7.6	14.1	12.0
23S 04W 03BAB 02	aJ70		1470.				4.9	7.5		2.5	4.4	8.4	3.9
23S 04W 16BBB 01	aJ70	QU	1570.				23.7	22.2	18.9	19.1	20.7	23.7	24.0
23S 04W 30BAA 01	aJ71	QU	1491.				9.1	8.6	7.2	6.7	7.4	9.5	9.1
23S 06W 15BAC 01	aJ84							9.6	9.2	9.7	9.4	10.1	9.8
23S 06W 31DCB 01	qJ71	QU	1577.		27	32.4	31.0	31.1	30.7	30.1	29.0	29.4	29.6
23S 07W 01ABA 01	aJ66	QU	1567.		7	5.3	8.1	8.1	7.7	8.1	8.0	9.0	8.4
23S 07W 05ABA 01	aJ73	QU	1623.		20	22.5	27.0	26.6	23.9	25.4	23.7	27.5	22.7
23S 07W 13DDD 01	aJ73	QU	1604.		49	52.8	52.6	52.4	52.2	51.9	51.3	51.9	51.8
23S 08W 18AAD 01	aJ73	QU	1675.		15	10.5	14.5	14.2	12.0	13.2	11.2	14.3	13.5
23S 09W 05CBD 01	aJ69	QU	1740.		9	12.0	19.2	20.2	18.5	19.6	17.1	20.0	15.7
23S 09W 21DDB 01	aJ57	QU	1732.		7	3.2	11.9	13.2	10.5	10.1	9.0	14.3	9.7
23S 09W 35CCC 01	qJ74	QU	1718.	110	10	13.6	20.8	22.1	18.6	16.9	14.8	17.4	17.7
23S 10W 02BAB 01	aJ73	QU	1751.		7	3.0	8.0	8.1	6.9	7.1	6.5	9.2	6.6
23S 10W 25CAC 01	aJ59	QU	1752.		18	4.5	13.5	14.7	14.3	14.0	10.6	14.7	12.2
23S 10W 29DCA 01	aJ88		1783.									18.7	17.5
24S 04W 05CDB 01	aJ71	QU	1480.				7.5	7.4	7.3	7.0	7.9	10.0	9.4
24S 04W 14DAC 01	aJ71	QU	1455.				9.5	9.2	7.4	7.2	7.9	10.0	9.7
24S 04W 25BBD 01	aJ81	QU	1448.				6.3	5.7	4.2	4.4	4.5	6.4	6.0
24S 04W 31DAB 01	aJ69		1485.				29.8	29.1	26.1	25.6	25.7	28.9	29.3
24S 05W 10CCA 01	aJ72	QU	1509.				25.6	20.9	20.3	20.3	19.9	20.9	20.9
24S 06W 03AAB 01	aJ86		1554.							27.2	26.5	27.2	
24S 06W 23CBA 01	aJ84							11.8	9.2	6.9	7.6	10.6	8.5
24S 07W 08ADA 02	aJ85		1633.					44.4	43.3	42.2	41.0	41.0	41.4
24S 07W 28AAA 01	aJ73	QU	1588.		13	14.1	11.9	11.9	10.4	9.0	9.2	10.8	10.0
24S 08W 04AB 01	aJ79		1660.		13		16.9	15.2	12.7	10.0	9.0	13.0	11.7
24S 08W 18BAC 01	aJ55	QU	1649.			2.5	6.1	5.9	4.9	2.6	3.7	6.7	5.3
24S 08W 34DAC 01	aJ71	QU	1590.			6.4	6.2	6.3	5.9	5.1	4.9	6.3	5.2
24S 09W 19DDB 01	aJ66	QU	1704.		17	21.9	23.8	24.0	23.3	22.6	20.3	22.6	23.4
24S 10W 06DBB 01	aJ73	QU	1797.		17	17.9	23.5	24.5	24.4	24.6	19.9	23.3	24.1

TABLE 1, con't. -- SELECTED HYDROLOGIC DATA, RENO COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1944	1974	1984	1985	1986	1987	1988	1989	1990
24S 10W 17DDC 01	aJ73	QU	1755.		9	11.8	17.4	17.6	17.6	17.2	14.3	17.4	17.5
24S 10W 31CBC 01	aJ84		1750.				10.5	10.5	10.0	9.9	9.0	10.5	10.2
25S 04W 02ABB 01	aJ81	QU	1449.				8.9	8.7	8.3	8.4	8.0	9.3	9.2
25S 07W 07BBD 01	aJ67	QU	1602.			24.3	23.5	23.3	22.4	22.7	22.6	23.7	22.6
25S 07W 36CCC 01	aJ72	QU	1570.			24.5	26.2	26.0	24.0	23.9	24.1	26.4	26.1
25S 08W 19ADB 01	aJ73	QU	1607.			7.3	9.0	8.4	7.3	7.1	8.6	10.3	12.0
25S 09W 01DCD 01	aJ65	QU	1658.		10	12.8	14.8	15.1	14.3	13.1	11.4	13.5	13.6
25S 09W 17BBC 01	aJ73	QU	1710.		7	12.6	15.2	15.8	15.0	12.3	10.1	13.3	13.2
25S 09W 30DDA 01	aJ54	QU	1693.		15	16.0	18.2	17.8	17.1	16.6	16.3	17.8	17.4
25S 10W 14BBB 01	aJ73	QU	1748.	115	25	24.9	26.2	26.5	26.3	25.5	22.3	24.7	25.3
25S 10W 19ABD 01	aJ73	QU	1790.		33	27.9	30.0	29.9	31.5	28.0	24.7	28.3	28.1
26S 06W 13BAB 01	aJ72	QU	1475.			7.2	8.8	8.1	6.8	7.4	8.6	10.0	10.3
26S 06W 34BBC 01	aJ68	QU	1545.			17.6	17.7	17.5	15.6	15.2	15.5	16.9	16.7
26S 07W 12DCC 01	aJ70	QU	1582.			30.6	31.1	31.1	28.8	27.7	27.0	28.6	29.2
26S 07W 21DDC 01	aJ59	QU	1620.			21.5	20.3	18.9	17.5	18.3	17.3	18.9	19.9
26S 08W 06DCC 01	aJ87		1670.								6.5	9.3	8.6
26S 08W 30DCB 01	aJ72	QU	1680.			32.5	31.7	30.9	29.9	31.0	29.9	31.7	
26S 09W 10DDB 01	aJ53	QU	1686.		26	19.8	22.1	19.9	19.7	20.0	21.4	21.3	19.8
26S 09W 18AAA 01	aJ74	QU	1668.		17	8.3	7.6	6.7	6.5	7.1	6.6	8.6	7.4
26S 09W 31DCC 01	aJ84		1735.				53.2	53.0	52.0	52.9	50.6	53.8	54.4
26S 09W 34DBD 01	aJ73	QU	1685.		25	25.3	26.6	24.1	23.0	24.0	22.2	24.7	25.7
26S 10W 18CDC 01	qJ73	QU	1797.		13	24.6	25.3	24.6	23.6	23.8	21.8	24.2	24.7
26S 10W 32BBD 01	aJ72	QU	1760.		5	24.5	26.2	25.1	25.0	25.3	23.4	27.2	27.3

TABLE 2. -- DERIVED HYDROLOGIC DATA, RENO COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	Water-level change (feet) 1974-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1944-90	Average annual water-level change (feet/year) 1974-90	Saturated thickness (feet) 1944	Saturated thickness (feet) 1990	Percentage change saturated thickness 1944-90
22S 04W 12CDA 01	QU	36.2			1.4					
22S 04W 32BBC 01	QU	14.6			4.1					
22S 05W 17BCC 01		7.5			2.7					
22S 05W 33DBD 01										
22S 06W 18BCB 01		7.7			2.8					
22S 06W 28CCB 01		9.1			.6					
22S 07W 17DCB 01	QU	4.0		-2.0	1.6		-.1			
22S 08W 09DBB 01	QU	30.2	5		3.5	.1				
22S 08W 23DAD 01	QU	25.7		3.6	3.7		.2			
*22S 08W 33CCD 01	QU									
22S 09W 03BBD 01	QU	31.9	-12	-2.8	3.9	-.3	-.2			
22S 09W 17BAB 01	QU	16.7	-7	-6.9	5.2	-.2	-.4			
22S 09W 25BBA 01	QU	21.1		-2.2	3.0		-.1			
22S 10W 02DCC 01	QU	9.1	3	-7.5	3.5	.1	-.5			
22S 10W 08BBB 01	QU	15.1	-9	-9.2	1.9	-.2	-.6			
22S 10W 30DAA 01	QU	12.0	-2	-8.1	2.1		-.5			
23S 04W 03BAB 02		3.9			4.5					
23S 04W 16BBB 01	QU	24.0			-.3					
23S 04W 30BAA 01	QU	9.1			.4					
23S 06W 15BAC 01		9.8			.3					
23S 06W 31DCB 01	QU	29.6	-3	2.8	-.2	-.1	.2			
23S 07W 01ABA 01	QU	8.4	-1	-3.1	.6		-.2			
23S 07W 05ABA 01	QU	22.7	-3	-.2	4.8	-.1				
23S 07W 13DDD 01	QU	51.8	-3	1.0	.1	-.1	.1			
23S 08W 18AAD 01	QU	13.5	2	-3.0	.8		-.2			
23S 09W 05CBD 01	QU	15.7	-7	-3.7	4.3	-.2	-.2			
23S 09W 21DDB 01	QU	9.7	-3	-6.5	4.6	-.1	-.4			
23S 09W 35CCC 01	QU	17.7	-8	-4.1	-.3	-.2	-.3	100	92	-8
23S 10W 02BAB 01	QU	6.6	0	-3.6	2.6		-.2			
23S 10W 25CAC 01	QU	12.2	6	-7.7	2.5	.1	-.5			
23S 10W 29DCA 01		17.5			1.2					
24S 04W 05CDB 01	QU	9.4			.6					
24S 04W 14DAC 01	QU	9.7			.3					
24S 04W 25BBD 01	QU	6.0			.4					
24S 04W 31DAB 01		29.3			-.4					
24S 05W 10CCA 01	QU	20.9			.0					
24S 06W 03AAB 01										
24S 06W 23CBA 01		8.5			2.1					
24S 07W 08ADA 02		41.4			-.4					
24S 07W 28AAA 01	QU	10.0	3	4.1	.8	.1	.3			
24S 08W 04AB 01		11.7	1		1.3					
24S 08W 18BAC 01	QU	5.3		-2.8	1.4		-.2			
24S 08W 34DAC 01	QU	5.2		1.2	1.1		.1			
24S 09W 19DDB 01	QU	23.4	-6	-1.5	-.8	-.1	-.1			
24S 10W 06DBB 01	QU	24.1	-7	-6.2	-.8	-.2	-.4			

TABLE 2, con't. -- DERIVED HYDROLOGIC DATA, RENO COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	1974-90	1989-90	Average annual water-level change (feet/year) 1944-90	1974-90	Saturated thickness (feet) 1944	1990	Percentage change saturated thickness 1944-90
24S 10W 17DDC 01	QU	17.5	-9	-5.7	-.1	-.2	-.4			
24S 10W 31CBC 01		10.2			.3					
25S 04W 02ABB 01	QU	9.2			.1					
25S 07W 07BBD 01	QU	22.6		1.7	1.1		.1			
25S 07W 36CCC 01	QU	26.1		-1.6	.3		-.1			
25S 08W 19ADB 01	QU	12.0		-4.7	-1.7		-.3			
25S 09W 01DCD 01	QU	13.6	-4	-.8	-.1	-.1	-.1			
25S 09W 17BBC 01	QU	13.2	-6	-.6	.1	-.1				
25S 09W 30DDA 01	QU	17.4	-2	-1.4	.4		-.1			
25S 10W 14BBB 01	QU	25.3	0	-.4	-.6			90	90	0
25S 10W 19ABD 01	QU	28.1	5	-.2	.2	.1				
26S 06W 13BAB 01	QU	10.3		-3.1	-.3		-.2			
26S 06W 34BBC 01	QU	16.7		.9	.2		.1			
26S 07W 12DCC 01	QU	29.2		1.4	-.6		.1			
26S 07W 21DDC 01	QU	19.9		1.6	-1.0		.1			
26S 08W 06DCC 01		8.6			.7					
26S 08W 30DCB 01	QU									
26S 09W 10DDB 01	QU	19.8	6	.0	1.5	.1				
26S 09W 18AAA 01	QU	7.4	10	.9	1.2	.2	.1			
26S 09W 31DCC 01		54.4			-.6					
26S 09W 34DBD 01	QU	25.7	-1	-.4	-1.0					
26S 10W 18CDC 01	QU	24.7	-12	-.1	-.5	-.3				
26S 10W 32BBD 01	QU	27.3	-22	-2.8	-.1	-.5	-.2			

Republic County

TABLE 1. -- SELECTED HYDROLOGIC DATA, REPUBLIC COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1944	1974	1984	1985	1986	1987	1988	1989	1990
01S 03W 01CCA 01	qM72						140.9	141.0	140.0	140.0	138.0	147.7	141.2
*01S 03W 09CBD 01	aM79		1635.				140.7	140.7	140.3	140.7	140.0	142.5	
01S 04W 15AAA 01	qM79		1680.				175.4	178.7	177.1	176.1	175.3	178.0	176.1

TABLE 2. -- DERIVED HYDROLOGIC DATA, REPUBLIC COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	1974-90	1989-90	Average annual water-level change (feet/year) 1944-90	1974-90	Saturated thickness (feet) 1944	1990	Percentage change saturated thickness 1944-90
01S 03W 01CCA 01		141.2			6.5					
*01S 03W 09CBD 01										
01S 04W 15AAA 01		176.1			1.9					

Rice County

TABLE 1. -- SELECTED HYDROLOGIC DATA, RICE COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1944	1974	1984	1985	1986	1987	1988	1989	1990
20S 08W 22AAA 01	qJ79		1644.		14		15.1	15.4	13.7	14.5	14.0	15.9	15.6
20S 09W 12DDA 01	qJ60	QA	1664.		11	8.3	13.6	14.1	12.8	12.8	12.1	14.2	14.2
20S 09W 28ACD 01	aJ88											20.3	20.8
20S 10W 27BBB 01	aJ85		1786.		46			34.3	33.3	35.5	33.4	34.5	34.6
20S 10W 36ACD 01	aJ77		1715.		10		13.8	14.2	13.0	14.2	13.9	14.5	
21S 07W 04AAC 01	aJ77		1615.		14		14.2	14.0	12.7	13.7	13.9	15.6	
21S 07W 26CBD 01	aJ77		1595.		10				11.0	13.0	12.3	14.5	13.8
21S 08W 09CBD 01	qJ77		1647.		9		11.7	12.6	11.2	12.2	11.4	13.4	13.2
21S 08W 25ABB 01	qJ77		1620.		7		5.8	5.9	4.3	5.6	5.1	7.0	4.5
21S 08W 32DBB 01	aJ85		1641.		3			7.1	6.7	7.3		8.1	7.2
21S 09W 02DDA 01	aJ77		1670.		9		13.2	14.3	12.7	13.3	12.9	14.8	13.8
21S 09W 15AAC 02	aJ85		1669.						6.0	6.8	6.3	7.1	6.9
21S 10W 16CDC 01	aJ84		1720.							6.7	6.1	7.2	7.4

TABLE 2. -- DERIVED HYDROLOGIC DATA, RICE COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet)	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
		1990	1944-90	1974-90	1989-90	1944-90	1974-90	1944	1990	1944-90
20S 08W 22AAA 01		15.6	-2		.3					
20S 09W 12DDA 01	QA	14.2	-3	-5.9	.0	-.1	-.4			
20S 09W 28ACD 01		20.8			-.5					
20S 10W 27BBB 01		34.6	11		-.1	.2				
20S 10W 36ACD 01										
21S 07W 04AAC 01										
21S 07W 26CBD 01		13.8	-4		.7	-.1				
21S 08W 09CBD 01		13.2	-4		.2	-.1				
21S 08W 25ABB 01		4.5	3		2.5	.1				
21S 08W 32DBB 01		7.2	-4		.9	-.1				
21S 09W 02DDA 01		13.8	-5		1.0	-.1				
21S 09W 15AAC 02		6.9			.2					
21S 10W 16CDC 01		7.4			-.2					

Riley County

TABLE 1. -- SELECTED HYDROLOGIC DATA, RILEY COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
10S 09E 17BDD 01	aM66		996.			20.7	18.3	17.5	17.3	13.4	15.6	19.0	20.0

TABLE 2. -- DERIVED HYDROLOGIC DATA, RILEY COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
10S 09E 17BDD 01		20.0		.7	-1.0					

Rooks County

TABLE 1. -- SELECTED HYDROLOGIC DATA, ROOKS COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
07S 17W 24BBB 01	qM58		1713.			14.3	16.2	17.1	15.7	15.0	13.7	15.5	12.8
07S 19W 23CDB 01	qM58		1878.			18.7	17.1	15.4		15.3	15.1	17.2	15.9

TABLE 2. -- DERIVED HYDROLOGIC DATA, ROOKS COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
07S 17W 24BBB 01		12.8		1.5	2.7		.1			
07S 19W 23CDB 01		15.9		2.8	1.3		.1			

Rush County

TABLE 1. -- SELECTED HYDROLOGIC DATA, RUSH COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
18S 16W 23DCC 01	qM86		1930.							27.2	19.2	23.9	24.5
18S 16W 23DCC 02	qM86		1930.							29.3	21.1	26.3	27.3
18S 17W 22AAD 01	qM60		1960.			25.8							
18S 17W 23BCC 01	qM60		1958.			25.1	36.1	36.8	37.1	37.3	33.9	35.2	36.6
18S 18W 27AAC 01	qM65		1993.			27.6	35.6	36.2	36.8	36.9	34.9	34.0	34.0
18S 19W 20ADD 01	qM69		2034.				35.9	35.9		32.6	30.3	31.6	32.5
18S 20W 14CCC 01	qM60						26.2	25.8	25.8	24.9	22.0	22.8	23.3
18S 20W 19AAD 01	qM60		2077.			31.2	31.6	29.8	28.6	29.2	25.6	27.4	28.4

TABLE 2. -- DERIVED HYDROLOGIC DATA, RUSH COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
18S 16W 23DCC 01		24.5			-.6					
18S 16W 23DCC 02		27.3			-1.0					
18S 17W 22AAD 01										
18S 17W 23BCC 01		36.6		-11.5	-1.4		-.5			
18S 18W 27AAC 01		34.0		-6.4	.0		-.3			
18S 19W 20ADD 01		32.5			-.9					
18S 20W 14CCC 01		23.3			-.5					
18S 20W 19AAD 01		28.4		2.8	-1.0		.1			

Saline County

TABLE 1. -- SELECTED HYDROLOGIC DATA, SALINE COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
13S 01W 23BCB 02	qM82		1172.				19.9	17.9	18.6	19.0	17.2	20.1	18.9
13S 02W 33DDC 01	qM85		1207.						22.5	23.6	22.1	24.6	25.1

TABLE 2. -- DERIVED HYDROLOGIC DATA, SALINE COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
13S 01W 23BCB 02		18.9			1.2					
13S 02W 33DDC 01		25.1			-.5					

Scott County

TABLE 1. -- SELECTED HYDROLOGIC DATA, SCOTT COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
16S 31W 17DDD 01	aJ51	TO	2931.	161	118		121.7	121.1	119.2	120.0	120.2	123.9	121.1
16S 31W 31BCB 01	aJ51	TO	2958.	168	127	128.4	135.0	137.6	134.5	135.8	135.8	140.0	137.5
16S 32W 16BCA 01	aJ88		2999.									158.3	157.7
16S 33W 19CBB 01	qJ59	TO	3097.	192	124	140.7	160.2	159.3	159.9	161.5	163.2	159.5	159.5
16S 33W 33BAA 01	aJ69	TO	3066.	194	130		152.3	150.7	150.4	151.8	152.1	153.2	153.7
16S 34W 09CCB 01	aJ51	TO	3146.	181	118	133.5	157.0	157.4	157.8	158.6	158.8	159.5	160.0
16S 34W 29CBB 01	aJ67	TO	3160.	181	119	134.1	166.3	166.7	166.7	167.5	167.9	169.0	169.2
17S 31W 04DCC 01	aJ76	TO	2932.	170	117		125.6	129.3	125.7		128.9	134.2	133.7
17S 31W 19CDA 01	aJ83	TO	2960.				124.2	125.4	121.5	123.7	127.6	128.8	127.4
17S 31W 35CCB 01	aJ77	TO	2925.	147	86		98.3	97.6	97.5	99.9	98.1	105.8	99.2
17S 32W 16BBB 01	aJ71	TO	2980.	231	88		139.2		140.6				142.0
17S 32W 27BBB 01	aJ65	TO	2990.	180	95	107.0	153.1	153.0	143.0	147.0	148.7		148.7
17S 32W 31BCB 01	aJ66	TO	2984.	245	68	88.6	136.2	137.2		138.7			146.5
17S 33W 07BBB 01	aJ65	TO	3093.	202	112	134.5		154.5	158.0	151.3	158.4		
17S 33W 14ACB 01	aJ69	TO	3014.	214	93		139.5	140.6	140.7	140.0	143.4	148.1	146.8
17S 34W 06BCB 01	aJ65	TO	3163.	194	108	118.5	146.1	146.8	146.1	147.9	149.7	153.6	152.8
17S 34W 16ACB 01	aJ51	TO	3134.	194	107	112.1	127.4	127.1	128.2				
17S 34W 25DBB 01	aJ65	TO	3092.	189	103	114.5	137.1	137.1	134.9	136.5	137.1	142.9	143.2
18S 31W 24BCB 01	aJ73	TO	2913.	110	68		76.2	75.4	74.6	75.6	74.3	73.3	74.6
18S 31W 27ABA 01	aJ77	TO	2930.	105	70		69.2	69.2	69.0	68.6	67.1	67.5	67.7
18S 32W 14BBB 01	aJ67	TO	2980.	175	85	98.4	114.5	114.6	114.5	114.7	118.6		119.0
18S 32W 17ABA 02	aJ81	TO	2973.				114.9	113.6	113.5	114.1	117.1	118.8	119.2
18S 33W 03CCB 01	aJ51	TO	3008.	182	71	83.1	118.0	118.8	118.2	118.9	122.5	121.5	122.1
18S 33W 05CCC 01	qJ44	TO	3041.	119	75	84.7	99.1	99.7	99.6	106.7	102.3	101.4	101.4
18S 33W 11ABB 01	aJ77	TO	2981.	199	55		113.6	117.1	115.4	114.8			118.9
18S 33W 15DDD 01	aJ75	TO	2958.	132			89.2	89.1	90.9	94.2			
18S 33W 26DAD 02	aJ71		2952.	168	30	47.0	77.8	79.2	80.6	81.5	82.5		
18S 33W 34ADB 01	aJ80	TO	2960.	122	26		77.3	76.0	78.7	82.5			85.2
18S 34W 05CBB 01	aJ77	TO	3148.	168	88		115.9	115.5		117.2	118.9	120.8	
18S 34W 25BBD 01	aJ40	TO	3092.	132	90	95.8	112.6	112.6	116.3	116.4	113.9	114.3	114.5
18S 34W 34BBC 01	aJ44	TO	3130.	160	90	100.6	116.9		116.9	118.7	119.3	118.7	117.4
19S 32W 06CCB 01	mJ72		2937.	199	21		66.6	70.3	68.4	72.2	73.0	75.0	75.9
19S 32W 32ACB 01	aJ73	QU,TO	2984.	204	69		86.3	86.3	85.2	85.6	86.4	87.0	88.0
19S 33W 06DBB 01	aJ71	TO,TO	3021.	117	59		66.5	68.1	62.7	62.9	68.5	61.4	61.5
19S 33W 12DDC 01	aJ40	QA,TO	2939.	200	25	29.5	55.8	55.8	56.4	56.9			60.2
19S 33W 15DBD 01	qJ36	TO	2964.	132	56	70.9	108.6	108.8	109.9	110.0	110.2	109.3	108.6
19S 33W 29CBB 02	qJ71		2994.	174	76	101.0	124.3	126.1	115.1	117.2	113.6	113.9	114.8
19S 34W 19DCC 01	aJ80		3138.				125.9	126.1	126.1	126.2	126.4	127.4	126.4
20S 32W 16DAD 01	aJ71	TO	2955.	155	57		123.2		123.9		127.5	125.4	116.3
20S 32W 30BCD 01	aJ77	TO	2917.	187	25		91.1	92.8	97.4	101.6	105.8	106.7	108.6
20S 33W 02DBB 01	aJ41		2955.	155	50	76.6		107.8	101.5	101.1			102.0
20S 33W 09BBB 01	qJ31	TO	2973.	128	60	84.5	98.8	99.5	100.1	100.7	101.1	101.6	103.1
20S 33W 17BAB 01	aJ40	TO	2974.	132	62	84.8	117.5	117.1	116.9	118.2			120.6
20S 33W 21ABD 01	aJ44		2957.	147	48	50.9		135.0	123.2	126.0	126.0		129.0
20S 33W 35DBA 01	aJ44	QA,TO	2929.	147	40	53.2	94.5	96.9	96.8	100.0	103.9	105.8	105.3
20S 34W 15BAA 01	aJ77	TO	3060.	138	97		102.9	103.4	102.7	102.6	102.9		107.8
20S 34W 36CCD 01	aJ71	TO	2962.	107	53		80.7	79.9	79.5	80.3	78.4	79.5	78.0

TABLE 2. -- DERIVED HYDROLOGIC DATA, SCOTT COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	1966-90	1989-90	Average annual water-level change (feet/year) 1940-90	1966-90	Saturated thickness (feet) 1940	1990	Percentage change saturated thickness 1940-90
16S 31W 17DDD 01	TO	121.1	-3		2.8	-.1		43	40	-7
16S 31W 31BCB 01	TO	137.5	-11	-9.1	2.5	-.3	-.4	41	31	-24
16S 32W 16BCA 01		157.7			.6					
16S 33W 19CBB 01	TO	159.5	-36	-18.8	.0	-.9	-.8	68	33	-51
16S 33W 33BAA 01	TO	153.7	-24		-.5	-.6		64	40	-38
16S 34W 09CCB 01	TO	160.0	-42	-26.5	-.5	-1.1	-1.1	63	21	-67
16S 34W 29CBB 01	TO	169.2	-50	-35.1	-.2	-1.3	-1.5	62	12	-81
17S 31W 04DCC 01	TO	133.7	-17		.5	-.4		53	36	-32
17S 31W 19CDA 01	TO	127.4			1.4					
17S 31W 35CCB 01	TO	99.2	-13		6.6	-.3		61	48	-21
17S 32W 16BBB 01	TO	142.0	-54			-1.4		143	89	-38
17S 32W 27BBB 01	TO	148.7	-54	-41.7		-1.4	-1.7	85	31	-64
17S 32W 31BCB 01	TO	146.5	-79	-57.9		-2.0	-2.4	177	99	-44
17S 33W 07BBB 01	TO									
17S 33W 14ACB 01	TO	146.8	-54		1.3	-1.4		121	67	-45
17S 34W 06BCB 01	TO	152.8	-45	-34.3	.8	-1.1	-1.4	86	41	-52
17S 34W 16ACB 01	TO									
17S 34W 25DBB 01	TO	143.2	-40	-28.7	-.3	-1.0	-1.2	86	46	-47
18S 31W 24BCB 01	TO	74.6	-7		-1.3	-.2		42	35	-17
18S 31W 27ABA 01	TO	67.7	2		-.2	.1		35	37	6
18S 32W 14BBB 01	TO	119.0	-34	-20.6		-.9	-.9	90	56	-38
18S 32W 17ABA 02	TO	119.2			-.4					
18S 33W 03CCB 01	TO	122.1	-51	-39.0	-.6	-1.3	-1.6	111	60	-46
18S 33W 05CCC 01	TO	101.4	-26	-16.7	.0	-.6	-.7	44	18	-59
18S 33W 11ABB 01	TO	118.9	-64			-1.6		144	80	-44
18S 33W 15DDD 01	TO									
18S 33W 26DAD 02										
18S 33W 34ADB 01	TO	85.2	-59			-1.5		96	37	-61
18S 34W 05CBB 01	TO									
18S 34W 25BBD 01	TO	114.5	-25	-18.7	-.2	-.6	-.8	42	18	-57
18S 34W 34BBC 01	TO	117.4	-27	-16.8	1.3	-.7	-.7	70	43	-39
19S 32W 06CCB 01		75.9	-55		-.9	-1.4		178	123	-31
19S 32W 32ACB 01	QU,TO	88.0	-19		-1.0	-.5		135	116	-14
19S 33W 06DBB 01	TO,TO	61.5	-3		-.1	-.1		58	56	-3
19S 33W 12DDC 01	QA,TO	60.2	-35	-30.7		-.9	-1.3	175	140	-20
19S 33W 15DBD 01	TO	108.6	-53	-37.7	.7	-1.3	-1.6	76	23	-70
19S 33W 29CBB 02		114.8	-39	-13.8	-.9	-1.0	-.6	98	59	-40
19S 34W 19DCC 01		126.4			1.0					
20S 32W 16DAD 01	TO	116.3	-59		9.1	-1.5		98	39	-60
20S 32W 30BCD 01	TO	108.6	-84		-1.9	-2.1		162	78	-52
20S 33W 02DBB 01		102.0	-52	-25.4		-1.3	-1.1	105	53	-50
20S 33W 09BBB 01	TO	103.1	-43	-18.6	-1.5	-1.1	-.8	68	25	-63
20S 33W 17BAB 01	TO	120.6	-59	-35.8		-1.5	-1.5	70	11	-84
20S 33W 21ABD 01		129.0	-81	-78.1		-2.0	-3.3	99	18	-82
20S 33W 35DBA 01	QA,TO	105.3	-65	-52.1	.5	-1.6	-2.2	107	42	-61
20S 34W 15BAA 01	TO	107.8	-11			-.3		41	30	-27
20S 34W 36CCD 01	TO	78.0	-25		1.5	-.6		54	29	-46

Sedgwick County

TABLE 1. -- SELECTED HYDROLOGIC DATA, SEDGWICK COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1944	1974	1984	1985	1986	1987	1988	1989	1990
25S 01W 07ABD 01	aJ81	QU	1377.				28.8	30.8	27.6	27.2	26.2	29.0	29.9
25S 01W 26DBD 01	qJ37	QU	1351.		17	14.5	19.7	19.4	18.1	18.5	18.2	19.3	19.3
25S 01W 28DBA 01	aJ81	QU	1364.				14.9	15.1	12.9	13.7	13.0	15.5	14.6
25S 02W 16DDA 01	aJ81	QU	1390.				8.6	6.7	4.4	4.9	5.0	7.3	6.7
25S 02W 23DBD 01	aJ81	QU	1379.				11.7	10.3	8.7	9.1	9.0	11.1	10.6
25S 03W 03DDD 01	qJ53	QA,QU	1423.				12.6	12.7	10.1	10.7	11.2	12.8	12.0
25S 03W 15CCC 01	aJ81	QU	1428.				22.4	22.6	20.1	20.0	19.8	21.9	21.8
26S 01W 12BAD 01	aJ81	QU	1341.				19.1	16.5	14.2	15.8	15.5	16.8	15.6
26S 01W 19ABA 01	qJ38	QU	1351.				8.1	7.8	6.1	6.0	5.4	7.4	6.7
26S 01W 31CCD 01	aJ44		1370.				40.3	40.1		38.0	37.0	38.6	38.9
26S 02W 08AAB 01	aJ81	QU	1397.				22.0	32.8	30.9	29.6	28.7	31.0	31.1
26S 02W 13ACA 01	aJ84	QU	1360.				20.6	11.1	8.7	8.5	7.9		
26S 02W 29AAA 01	qJ60	QU	1384.				27.5	27.2	25.8	24.8	23.5	24.6	24.8
26S 03W 02AAC 01	aJ81	QU	1409.				23.5	23.2	20.9	20.0	18.7	21.2	21.6

TABLE 2. -- DERIVED HYDROLOGIC DATA, SEDGWICK COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	1974-90	1989-90	Average annual water-level change (feet/year) 1944-90	1974-90	Saturated thickness (feet) 1944	1990	Percentage change saturated thickness 1944-90
25S 01W 07ABD 01	QU	29.9			-.9					
25S 01W 26DBD 01	QU	19.3	-2	-4.8	.0		-.3			
25S 01W 28DBA 01	QU	14.6			.9					
25S 02W 16DDA 01	QU	6.7			.6					
25S 02W 23DBD 01	QU	10.6			.5					
25S 03W 03DDD 01	QA,QU	12.0			.8					
25S 03W 15CCC 01	QU	21.8			.1					
26S 01W 12BAD 01	QU	15.6			1.2					
26S 01W 19ABA 01	QU	6.7			.7					
26S 01W 31CCD 01		38.9			-.3					
26S 02W 08AAB 01	QU	31.1			-.1					
26S 02W 13ACA 01	QU									
26S 02W 29AAA 01	QU	24.8			-.2					
26S 03W 02AAC 01	QU	21.6			-.4					

Seward County

TABLE 1. -- SELECTED HYDROLOGIC DATA, SEWARD COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
31S 31W 08BCC 01	aJ62	QU,TO	2829.	519	164	169.4	215.5	218.5	218.8	219.8	220.3	220.1	228.4
31S 31W 13BBC 01	aJ85		2800.	515	152			158.4	159.0	160.8	159.9		
31S 31W 32DCC 01	aJ85		2801.	456	153			162.2	162.4	163.2	164.2	164.6	
31S 32W 03DAD 01	aJ58	QU,TO	2845.	496	158	174.1	217.3	219.6	217.7	218.5	220.7		237.2
31S 32W 31BBB 01	aJ85		2864.	454	174			218.5	213.1	217.0	217.8	217.0	221.3
31S 33W 06CBD 01	aJ58	QU,TO	2948.	498	210	211.2	242.5	243.7	245.0	247.5	249.5	250.5	255.6
31S 33W 20DBB 01	aJ64	QU,TO	2897.	537	179	179.1	208.0	212.1	215.7	216.5	216.0		222.6
31S 34W 18BBB 01	aJ58	QU,TO	2951.	421	186	186.3	216.8	218.8	219.0	220.1			231.8
32S 31W 02BBB 01	aJ85		2787.	497	149			192.6	191.8	192.5	193.0	191.8	
32S 31W 08BBB 01	aJ64	QU,TO	2815.	455	175	165.5	202.9	204.4	203.3	204.5	205.7	204.8	213.6
32S 31W 26CAA 01	aJ79	QU,TO	2783.	453	180	182.9	209.3	217.9	220.5	220.2			220.0
32S 32W 14BBB 01	qJ64	QU,TO	2830.	435	180	192.8	222.0	222.7	222.0	222.5	222.4	222.4	232.6
32S 32W 19BAB 01	aJ58	QU,TO	2854.	475	189	194.7	214.8	217.1	217.1	217.5	217.1	217.2	224.7
32S 33W 04BAA 01	aJ81		2869.		167		191.7	193.0	193.2	194.0		198.2	201.3
32S 33W 32DBD 01	aJ85		2830.						151.7	150.8	149.9		155.8
32S 34W 10DAA 01	aJ66	QU,TO	2925.	470	205	203.5	223.1	220.9	220.6	220.5	221.6	223.5	
32S 34W 17DCC 01	aJ58		2953.	493	213	222.8	256.2	251.2	251.6	253.8	253.8		
32S 34W 32BBB 01	aJ58	QU,TO	2921.	491	159	154.3	175.5	174.8	174.9	175.4	175.6	182.2	181.3
33S 31W 09AAB 01	aJ88		2766.								204.3	202.0	208.6
33S 31W 28DDB 01	aJ85		2720.	550	190			186.8	188.5	188.7	191.0	190.6	
33S 32W 28CDD 02	aJ74	QU,TO	2630.	399	60		58.7	58.7	58.7	58.8	58.9	59.2	58.8
33S 33W 12AAD 01	aJ64	QU,TO	2626.	316	5	5.7	9.4	9.1	9.4	9.4	9.9		
33S 33W 20BCC 01	aJ81		2866.		176		195.4	195.9	194.3	197.8	199.6	201.8	207.6
33S 33W 25DCC 01	aJ67		2810.		197		198.3	198.6	198.3	203.0	202.4		202.0
33S 34W 17DCC 01	aJ83		2918.		123		112.2		114.4	118.9	120.6	124.5	122.6
34S 31W 30BBB 01	aJ40		2731.	671	208		211.0	211.1	210.2	214.6	214.4	216.0	212.3
34S 32W 29BAA 01	aJ85		2765.	525	175			175.7	168.8	171.7	169.6	170.8	170.7
34S 32W 35ADA 01	aJ77	QU,TO	2734.		189		191.1	191.9	190.3	193.2	193.6		
34S 33W 04BCD 01	aJ81		2855.		165		192.8	193.2	194.2	194.8	195.4		
34S 33W 07CCB 01	qJ64		2901.	575	140	126.7	135.1	136.0	137.1	138.9	138.8	139.9	140.4
34S 34W 16DAA 01	aJ65	QU,TO	2943.	673	114	94.5	131.0	125.7	125.6		125.7		132.2
34S 34W 26BCA 01	aJ85		2908.		98			106.8		109.9	110.7		113.9
35S 31W 10AAC 01	aJ85		2690.					194.0	193.5	194.0	194.9	196.5	194.8
35S 31W 18BBA 01	aJ59	QU,TO	2707.	497	187	181.9	177.6	180.0	179.7	181.4	182.6		190.0
35S 32W 06CBB 01	aJ85		2780.	540	150			159.2	159.9	160.3	162.0	166.3	164.8
35S 33W 16BCA 01	aJ64	QU,TO	2838.	658	126	103.7	121.3	128.9	128.9	129.7	129.5	132.0	130.9
35S 34W 03CBC 01	aJ78		2920.	660	95		104.1	104.3	101.9	101.5	102.0		110.4
35S 34W 10BBB 01	aJ54	QU,TO	2912.	647	90	80.3	75.5	77.4	78.5	78.7	80.1	81.6	81.5

TABLE 2. – DERIVED HYDROLOGIC DATA, SEWARD COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	1966-90	1989-90	Average annual water-level change (feet/year) 1940-90	1966-90	Saturated thickness (feet) 1940	1989	Percentage change saturated thickness 1940-90
31S 31W 08BCC 01	QU,TO	228.4	-64	-59.0	-8.3	-1.3	-2.5	355	291	-18
31S 31W 13BBC 01										
31S 31W 32DCC 01										
31S 32W 03DAD 01	QU,TO	237.2	-79	-63.1		-1.6	-2.6	338	259	-23
31S 32W 31BBB 01		221.3	-47		-4.3	-.9		280	233	-17
31S 33W 06CBD 01	QU,TO	255.6	-46	-44.4	-5.1	-.9	-1.9	288	242	-16
31S 33W 20DBB 01	QU,TO	222.6	-44	-43.5		-.9	-1.8	358	314	-12
31S 34W 18BBB 01	QU,TO	231.8	-46	-45.5		-.9	-1.9	235	189	-20
32S 31W 02BBB 01										
32S 31W 08BBB 01	QU,TO	213.6	-39	-48.1	-8.8	-.8	-2.0	280	241	-14
32S 31W 26CAA 01	QU,TO	220.0	-40	-37.1		-.8	-1.5	273	233	-15
32S 32W 14BBB 01	QU,TO	232.6	-53	-39.8	-10.2	-1.1	-1.7	255	202	-21
32S 32W 19BAB 01	QU,TO	224.7	-36	-30.0	-7.5	-.7	-1.3	286	250	-13
32S 33W 04BAA 01		201.3	-34		-3.1	-.7				
32S 33W 32DBD 01		155.8								
32S 34W 10DAA 01	QU,TO									
32S 34W 17DCC 01										
32S 34W 32BBB 01	QU,TO	181.3	-22	-27.0	.9	-.4	-1.1	332	310	-7
33S 31W 09AAB 01		208.6			-6.6					
33S 31W 28DDB 01										
33S 32W 28CDD 02	QU,TO	58.8	1		.4			339	340	0
33S 33W 12AAD 01	QU,TO									
33S 33W 20BCC 01		207.6	-32		-5.8	-.6				
33S 33W 25DCC 01		202.0	-5			-.1				
33S 34W 17DCC 01		122.6	0		1.9					
34S 31W 30BBB 01		212.3	-4		3.7	-.1		463	459	-1
34S 32W 29BAA 01		170.7	4		.1	.1		350	354	1
34S 32W 35ADA 01	QU,TO									
34S 33W 04BCD 01										
34S 33W 07CCB 01		140.4	0	-13.7	-.5		-.6	435	435	0
34S 34W 16DAA 01	QU,TO	132.2	-18	-37.7		-.4	-1.6	559	541	-3
34S 34W 26BCA 01		113.9	-16			-.3				
35S 31W 10AAC 01		194.8			1.7					
35S 31W 18BBA 01	QU,TO	190.0	-3	-8.1		-.1	-.3	310	307	-1
35S 32W 06CBB 01		164.8	-15		1.5	-.3		390	375	-4
35S 33W 16BCA 01	QU,TO	130.9	-5	-27.2	1.1	-.1	-1.1	532	527	-1
35S 34W 03CBC 01		110.4	-15			-.3		565	550	-3
35S 34W 10BBB 01	QU,TO	81.5	9	-1.2	.1	.2		557	566	2

Sheridan County

TABLE 1. -- SELECTED HYDROLOGIC DATA, SHERIDAN COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
06S 26W 26CBB 01	aD84		2636.					166.7	166.4	167.6	167.1	167.6	
06S 27W 05CBB 01	aD84		2684.					112.8	112.1	113.8	113.2	113.3	114.0
06S 27W 08DCA 01	aD64	QA,TO	2588.	108	21	14.6		20.8	21.1	22.2	22.6	23.9	24.4
06S 27W 19ADC 01	aD87		2620.								33.7	34.0	34.7
06S 27W 27BCC 01	uD64	TO	2716.	320	162	154.4	160.1	162.5	162.9		158.9		166.8
06S 29W 10DBC 01	aD65	TO	2823.	205	116	118.6		130.9	129.6	131.2	133.6		135.6
06S 29W 24ABB 01	aD66	TO	2781.	205	91	96.2	103.1	104.3	104.8	107.4	108.4	115.9	108.9
06S 29W 33CDA 01	aD65	TO	2828.	207	94	93.3		107.6	117.2	121.6	120.4	117.2	116.8
06S 30W 13BAA 01	qD75	TO	2875.	216	115		129.8	131.1	132.6	128.0	130.9	131.8	133.3
06S 30W 14CCD 01	aD65	TO	2884.	203	95	102.8	110.0	111.5	110.8	110.8	112.0	112.4	113.1
07S 26W 06AAB 01	aD64	TO	2634.	204	125	125.9		131.2	131.5	132.1	132.3	132.7	135.6
07S 26W 12BAC 01	aD65	TO	2559.	170	94	91.9	101.4	105.0	99.2	101.7	103.1	101.4	103.5
07S 26W 19BBC 01	qD75	TO	2625.	201	115		124.8	124.7	124.0	125.4	125.4	126.7	127.2
07S 26W 28CAB 01	aD65	TO	2634.	243	142	148.4		157.5	161.7	162.1	159.3	164.4	156.4
07S 27W 22DAC 01	aD84		2644.					113.9	118.9	122.3	115.7	119.8	116.9
07S 28W 08BDC 01	aD68	TO	2808.	282	140			165.4	166.1	166.8	167.7	169.2	171.4
07S 28W 21ABB 01	aD65	TO	2774.	235	129	131.0	158.8	160.2	173.3	177.5	177.3	170.8	165.1
07S 28W 36ABA 01	aD64	TO	2725.	233	123	127.5	141.6	149.3	151.0	147.1	146.0	144.3	144.9
07S 29W 05BBB 01	aD84		2841.					103.3	104.2	104.9	105.5	107.4	108.1
07S 29W 27CCC 01	aD76	TO	2869.	265	131		179.7	177.9	195.7	206.8	180.7	186.2	190.4
07S 29W 30ABA 01	aD62	TO	2886.	255	113	121.8	158.3	155.5	160.7	160.4	168.7	161.0	
07S 30W 08CBB 01	aD84		2919.					104.6	99.2	104.5	104.2	101.6	102.0
08S 26W 14DAA 01	aD65	QA	2398.	66	13	19.5	19.0	18.8	13.9	19.2	18.0	19.8	19.8
08S 27W 11DCD 01	aD64	QA	2504.	60	13	8.5	11.1	10.3	10.3	10.6	10.4	10.7	10.8
08S 27W 35CBB 01	aD84							127.7	128.1	128.8	127.6	127.7	128.5
08S 28W 09ABC 01	aD52	TO	2766.	233	119	117.7	139.2	142.7	143.3	144.2	140.8	142.6	
08S 28W 11DAA 01	aD84		2692.					97.9	98.0	99.7	104.8	99.1	99.7
08S 29W 01DCB 01	aD64	TO	2823.	240	125	122.6	146.2		154.5	157.7	157.3	161.3	161.1
08S 30W 11CBC 01	aD64	TO	2941.	277	123	133.5	179.4	181.2	182.8	184.9	187.4	188.0	192.9
08S 30W 13DAA 01	qD64	TO	2891.	257	103	109.7	144.1	145.3	144.7	147.4	149.9	151.2	154.0
08S 30W 30ABC 01	aD65	TO	2962.	234	107	105.8		129.9	131.6	132.0	132.9	131.7	140.1
09S 26W 22BBB 01	aD84		2669.					140.3	141.5	142.6	137.7	138.6	138.0
09S 27W 12CCC 01	aD66	TO	2678.	198	104	106.5		109.2	113.0	115.3	108.8	107.3	107.5
09S 27W 19DDD 01	aD52	TO	2750.	205	124	123.6	133.2	130.3	131.8	133.2	129.4	129.2	130.1
09S 27W 27DAA 01	aD84		2705.					110.3	111.6	113.3	110.6	117.4	113.3
09S 28W 04BCC 01	aD64	TO,QA	2677.	98	18	25.7		27.0	27.1	27.5	27.6	27.8	28.3
09S 29W 03AAA 01	aD84		2819.					104.2	103.4	104.6	105.8	110.9	108.6
09S 29W 17BAB 01	aD66	TO	2854.	196	84	84.2	104.6	106.5	106.5	106.3	107.0		110.3
09S 29W 26BAA 01	aD64	TO	2863.	210	123	132.0	141.9	138.5	141.8		145.7	139.3	
09S 30W 03AAB 02	aD64	TO	2933.	217	118	119.2	143.5	145.9	144.7	148.3	149.3	150.6	152.4
09S 30W 35BBB 01	qD62	TO	2943.	215	120	129.3	147.5	146.3	147.0	148.5	156.6	151.0	157.1
10S 26W 08BAA 01	aD84		2590.						24.0		23.3	21.2	21.3
10S 26W 12AAD 01	aD84		2534.					27.9	27.8	29.1	29.6	28.3	28.7
10S 27W 20CBC 01	aD66	QA	2605.	50	12	13.9			18.2	21.0	19.7	19.9	22.4
10S 27W 22DBA 01	aD65	QA	2568.	65	10	18.5	23.1	20.0	20.7	20.6	20.7	23.2	23.7

TABLE 1, con't. – SELECTED HYDROLOGIC DATA, SHERIDAN COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
10S 28W 05DDB 01	aD65	TO	2789.	173	99	95.2	108.3	108.5	106.7	108.0	111.0	113.0	109.2
10S 28W 29DAA 01	aD64	QA,TO	2691.	62	22	25.4	30.2	27.0	27.1	27.0	25.8	27.2	27.0
*10S 29W 02DDD 01	aD84		2803.					90.7	93.4		80.1	82.2	82.2
10S 29W 20CAA 01	aD84							28.8	30.7	71.2	70.0		74.1
10S 30W 08DDD 01	qD64	TO	2930.	186	96	93.0	100.8	100.0	97.9	98.9	100.4	102.3	102.7
10S 30W 12ADA 01	aD65	TO	2874.	187	89	87.7	99.8	101.5	106.9	100.3	102.6		107.3

TABLE 2. -- DERIVED HYDROLOGIC DATA, SHERIDAN COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1950-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1950	Saturated thickness (feet) 1990	Percentage change saturated thickness 1950-90
06S 26W 26CBB 01										
06S 27W 05CBB 01		114.0			-.7					
06S 27W 08DCA 01	QA,TO	24.4	-3	-9.8	-.5	-.1	-.4	87	84	-3
06S 27W 19ADC 01		34.7			-.7					
06S 27W 27BCC 01	TO	166.8	-5	-12.4		-.1	-.5	158	153	-3
06S 29W 10DBC 01	TO	135.6	-20	-17.0		-.5	-.7	89	69	-22
06S 29W 24ABB 01	TO	108.9	-18	-12.7	7.0	-.4	-.5	114	96	-16
06S 29W 33CDA 01	TO	116.8	-23	-23.5	.4	-.6	-1.0	113	90	-20
06S 30W 13BAA 01	TO	133.3	-18		-1.5	-.4		101	83	-18
06S 30W 14CCD 01	TO	113.1	-18	-10.3	-.7	-.4	-.4	108	90	-17
07S 26W 06AAB 01	TO	135.6	-11	-9.7	-2.9	-.3	-.4	79	68	-14
07S 26W 12BAC 01	TO	103.5	-10	-11.6	-2.1	-.3	-.5	76	67	-12
07S 26W 19BBC 01	TO	127.2	-12		-.5	-.3		86	74	-14
07S 26W 28CAB 01	TO	156.4	-14	-8.0	8.0	-.4	-.3	101	87	-14
07S 27W 22DAC 01		116.9			2.9					
07S 28W 08BDC 01	TO	171.4	-31		-2.2	-.8		142	111	-22
07S 28W 21ABB 01	TO	165.1	-36	-34.1	5.7	-.9	-1.4	106	70	-34
07S 28W 36ABA 01	TO	144.9	-22	-17.4	-.6	-.6	-.7	110	88	-20
07S 29W 05BBB 01		108.1			-.7					
07S 29W 27CCC 01	TO	190.4	-59		-4.2	-1.5		134	75	-44
07S 29W 30ABA 01	TO									
07S 30W 08CBB 01		102.0			-.4					
08S 26W 14DAA 01	QA	19.8	-7	-.3	.0	-.2		53	46	-13
08S 27W 11DCD 01	QA	10.8	2	-2.3	-.1	.1	-.1	47	49	4
08S 27W 35CBB 01		128.5			-.8					
08S 28W 09ABC 01	TO									
08S 28W 11DAA 01		99.7			-.6					
08S 29W 01DCB 01	TO	161.1	-36	-38.5	.2	-.9	-1.6	115	79	-31
08S 30W 11CBC 01	TO	192.9	-70	-59.4	-4.9	-1.8	-2.5	154	84	-45
08S 30W 13DAA 01	TO	154.0	-51	-44.3	-2.8	-1.3	-1.8	154	103	-33
08S 30W 30ABC 01	TO	140.1	-33	-34.3	-8.4	-.8	-1.4	127	94	-26
09S 26W 22BBB 01		138.0			.6					
09S 27W 12CCC 01	TO	107.5	-4	-1.0	-.2	-.1		94	91	-3
09S 27W 19DDD 01	TO	130.1	-6	-6.5	-.9	-.1	-.3	81	75	-7
09S 27W 27DAA 01		113.3			4.1					
09S 28W 04BCC 01	TO,QA	28.3	-10	-2.6	-.5	-.3	-.1	80	70	-13
09S 29W 03AAA 01		108.6			2.3					
09S 29W 17BAB 01	TO	110.3	-26	-26.1		-.6	-1.1	112	86	-23
09S 29W 26BAA 01	TO									
09S 30W 03AAB 02	TO	152.4	-34	-33.2	-1.8	-.9	-1.4	99	65	-34
09S 30W 35BBB 01	TO	157.1	-37	-27.8	-6.1	-.9	-1.2	95	58	-39
10S 26W 08BAA 01		21.3			-.1					
10S 26W 12AAD 01		28.7			-.4					
10S 27W 20CBC 01	QA	22.4	-10	-8.5	-2.5	-.3	-.4	38	28	-26
10S 27W 22DBA 01	QA	23.7	-14	-5.2	-.5	-.4	-.2	55	41	-25
10S 28W 05DDB 01	TO	109.2	-10	-14.0	3.8	-.3	-.6	74	64	-14
10S 28W 29DAA 01	QA,TO	27.0	-5	-1.6	.2	-.1	-.1	40	35	-13
*10S 29W 02DDD 01		82.2			.0					
10S 29W 20CAA 01		74.1								
10S 30W 08DDD 01	TO	102.7	-7	-9.7	-.4	-.2	-.4	90	83	-8
10S 30W 12ADA 01	TO	107.3	-18	-19.6		-.4	-.8	98	80	-18

Sherman County

TABLE 1. – SELECTED HYDROLOGIC DATA, SHERMAN COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
06S 37W 07BBA 01	aJ64	QA	3304.	134	5	6.1		8.6	7.3	7.4	7.2	7.1	6.3
06S 37W 16CDD 01	aJ66	TO	3460.	264	157	163.8	180.8	171.5	171.5	171.9	172.2	173.1	174.1
06S 37W 19ABB 01	aJ65	TO	3476.	309	150	155.4	160.8	159.3	160.0	160.7	160.4	168.5	160.5
06S 38W 09ABD 01	aJ64	TO	3510.	318	147	151.3	162.3	162.2		163.0	162.0		
06S 39W 09DDD 01	aJ49	TO	3585.	330	145	142.7	148.6	148.0	149.2	149.5	149.8	150.3	150.4
06S 40W 10AAC 01	aJ64	TO	3641.	341	151	151.2		161.1	161.5	162.9	162.1	161.6	162.9
06S 40W 13CBC 01	aJ85		3624.					147.7	147.0	148.2	148.3	148.3	149.5
06S 40W 30DCC 01	aJ65	TO	3718.	326	159	153.6	167.0	167.6	168.3	168.9	169.1	169.4	169.6
06S 41W 01ABB 01	aJ64	TO	3675.	296	150	156.6		159.6	165.9	159.8	161.6		
06S 41W 19DBD 01	aJ65	TO	3792.	325	162	169.5	182.3	182.6	183.8	185.4	185.7		188.7
06S 41W 27DBD 01	aJ64	TO	3741.	325	141	142.1	163.0	164.1	164.5	164.4	164.9	165.6	165.8
06S 42W 02AAA 01	aJ59	TO	3777.	277	179	181.7	196.3	196.9	198.1	199.8	197.3	198.8	199.3
06S 42W 08CBB 01	aJ64	TO	3841.	304	183	201.3	212.2		210.8	211.2	209.8	211.2	211.6
06S 42W 22DCC 01	aJ65	TO	3837.	315	177	183.1	193.8	194.1	194.7	195.4	195.8	196.4	197.1
06S 42W 30ADA 01	aJ64	TO	3871.	309	176	183.6	201.9	202.2	202.2	204.9	203.5	204.2	
07S 37W 04BBC 01	aJ75	TO	3455.	270	122		136.9	139.5	136.7	137.6	137.6	138.3	139.0
07S 37W 05CCB 01	aJ65	TO	3472.	294	124	129.9	137.5	137.8	138.0	144.4	138.7	139.3	140.0
07S 38W 28DAA 01	aJ85		3545.					145.4	147.4	147.8	148.3	149.2	149.9
07S 39W 01DCD 01	aJ85		3563.					133.8	134.2	133.7	134.6	134.9	134.7
07S 39W 09BBB 01	aJ64	TO	3589.	295	106	104.8	116.1	116.7	116.5	117.3	117.6	117.5	117.6
07S 39W 24BAA 01	aJ64	TO	3587.	300	137	133.9				148.7	148.5	148.4	147.6
07S 40W 06ADB 01	aJ64	TO	3722.	343	152	149.4	167.2	167.3	168.6	168.4	168.3	168.7	169.3
07S 40W 29BBA 01	aJ49	TO	3708.	288	121	121.5		139.9	140.9	141.6	141.7	141.9	143.2
07S 40W 35BBB 01	aJ65	TO	3650.	255	102	103.0	125.6	124.8	125.8	127.4	127.5	129.6	128.1
07S 40W 36BAB 01	aJ64	TO	3643.	321	105	109.9	133.6	133.7	133.3	134.9	135.4	136.9	134.2
07S 41W 07BCB 01	aJ49	TO	3840.	300	180	174.4	195.4	203.6	198.1	199.5	200.0	200.9	202.3
07S 41W 28DBB 01	aJ64	TO	3774.	280	111	111.4	126.6	127.3	128.2	129.3	129.7	130.0	131.6
07S 42W 07DAA 01	aJ49	TO	3903.	320	163	164.4			195.5	191.9	189.1	188.4	190.1
07S 42W 17CCC 01	aJ66	TO	3864.	263	119	117.9	140.2		141.2	141.9	142.1	142.2	142.9
07S 42W 27AAB 01	aJ64	TO	3862.	321	142	140.6	165.1	164.5	165.3	167.2	166.8	169.0	169.1
08S 37W 03ADB 01	aJ64	TO	3476.	273	126	143.5		155.3	156.1	159.9	158.7		159.8
08S 37W 21CCC 01	aJ64	TO	3496.	230	120	121.1	138.7	140.4	140.1	141.0	141.1	141.3	142.3
08S 37W 32ABB 01	aJ64	TO	3468.	216	83	80.0	95.7		94.9	96.1	96.0	96.3	98.1
08S 38W 17CDD 01	aJ64	TO	3603.	293	143	142.0	162.2	161.2	161.2	160.8	162.2	162.1	163.9
08S 38W 24AAB 01	aJ64	TO	3513.	260	110	111.0	117.9	119.8	120.7	124.3	125.9	127.1	122.0
08S 39W 15CCC 01	aJ49	TO	3642.	272	127	135.0	163.5	163.9	163.5	163.8	164.7	165.3	166.1
08S 40W 12DBA 01	aJ65	TO	3670.	290	120	133.0	166.0	165.6	166.1	165.8	166.1	167.5	168.7
08S 40W 17CDB 01	aJ64	TO	3727.	277	102	108.0	132.7	135.1	133.1	133.9	134.1	137.0	136.3
08S 40W 20CCC 01	aJ67	TO	3716.	277	80	80.0	113.6	114.3	111.9	112.9	112.7	110.8	
08S 40W 25AAC 01	aJ67	TO	3701.	290	133	158.0	182.1	182.3	181.5	182.1	182.9	182.2	183.3
08S 41W 17CBA 01	aJ65	TO	3843.	300	129	129.0	147.4	153.6	146.3	148.8	149.7	147.1	151.6
08S 41W 25BBC 01	aJ65	TO	3754.	264	94	96.0	116.1	118.6	119.3	120.5	120.8	121.9	122.2
08S 42W 15DDB 01	aJ64	TO	3859.	274	98	99.0	124.0	125.5	125.9	126.8	126.5	127.9	128.4
08S 42W 31DCD 01	aJ64	TO	3872.	207	50	58.0	79.1	79.9	80.6	81.2	81.7	82.2	82.9
09S 37W 07DDB 01	aJ85		3496.					92.8	92.8	93.3	93.7	92.2	93.9

TABLE 1, con't. -- SELECTED HYDROLOGIC DATA, SHERMAN COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
09S 38W 13BCC 01	aJ76	TO	3510.					80.4	79.0	79.4	80.5	78.7	81.4
09S 39W 01DBA 01	aJ85		3619.					163.4	156.7	139.7	140.1	140.8	142.0
09S 39W 02BAB 01	aJ78	TO	3646.	246	133		169.2	170.1	168.4	168.7	169.9	172.3	175.4
09S 39W 10CCB 01	aJ85		3661.					144.4	144.4	146.6	139.3	148.8	151.7
09S 39W 19CCC 01	aJ72	TO	3695.	245	105		134.5	135.8	134.0	134.5	135.4	136.0	139.4
09S 40W 13CDC 01	aJ64	TO	3722.	260	123	125.0	158.6	159.5	158.7	159.8	159.4	160.6	161.9
09S 40W 29BBB 01	aJ64	TO	3782.	246	122	119.0	158.0	159.4	158.8	156.0	159.7	161.2	162.5
09S 41W 05DCC 01	aJ64	TO	3860.	265	128	136.0	167.1	177.0	167.7	168.9	168.8	172.9	173.1
09S 41W 14BBC 01	aJ69		3835.		129		175.9	176.2	175.2	176.1	177.4	180.0	181.5
09S 41W 28AAA 01	aJ66	TO	3854.	290	124	134.0		181.4	172.8	173.8	174.3	176.1	177.4
09S 41W 34BAB 01	aJ64	TO	3841.	290	111	114.0	150.1	148.7	148.3	149.5	149.9	151.6	152.1
09S 42W 08AAA 01	aJ64	TO	3943.	271	120	131.0	156.8	157.3	156.6	157.6	157.3	158.2	158.4
09S 42W 14AAA 01	aJ64	TO	3901.	291	116	131.0		166.6	164.4	166.8	165.7	165.8	165.1
09S 42W 29CBB 01	aJ86								139.6	138.5		140.5	
09S 42W 35ABB 01	aJ65	TO	3916.	268	102	103.0	143.0	143.0	141.9	143.9	143.9	142.5	146.2
10S 37W 23ABB 01	aJ67	TO	3421.	289	171	174.0	191.7	189.6	193.7	200.4	199.2		200.7
10S 40W 10ADC 01	aJ64	QA,TO	3624.	68	12	16.0	17.8	17.9	18.1	18.4	16.5	17.6	18.1
10S 41W 15CAD 01	aJ64	TO,QA	3762.	117	12	12.0		23.4	24.4	25.4		25.8	27.1
10S 42W 20ABB 01	aJ84		3968.					117.2	113.5	113.5	113.9	115.8	117.0
10S 42W 21BBB 01	aJ64	TO	3963.	223	73	86.0	109.1	109.0	109.6	110.8	111.8	112.7	116.0
10S 42W 24BAB 01	aJ64	TO	3903.	204	73	84.0	100.2	98.2	100.9	102.0	102.8		103.9

TABLE 2. -- DERIVED HYDROLOGIC DATA, SHERMAN COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
06S 37W 07BBA 01	QA	6.3	-1	-.2	.8			129	128	-1
06S 37W 16CDD 01	TO	174.1	-17	-10.3	-1.0	-.4	-.4	107	90	-16
06S 37W 19ABB 01	TO	160.5	-11	-5.1	8.0	-.3	-.2	159	149	-6
06S 38W 09ABD 01	TO									
06S 39W 09DDD 01	TO	150.4	-5	-7.7	-.1	-.1	-.3	185	180	-3
06S 40W 10AAC 01	TO	162.9	-12	-11.7	-1.3	-.3	-.5	190	178	-6
06S 40W 13CBC 01		149.5			-1.2					
06S 40W 30DCC 01	TO	169.6	-11	-16.0	-.2	-.3	-.7	167	156	-7
06S 41W 01ABB 01	TO									
06S 41W 19DBD 01	TO	188.7	-27	-19.2		-.7	-.8	163	136	-17
06S 41W 27DBD 01	TO	165.8	-25	-23.7	-.2	-.6	-1.0	184	159	-14
06S 42W 02AAA 01	TO	199.3	-20	-17.6	-.5	-.5	-.7	98	78	-20
06S 42W 08CBB 01	TO	211.6	-29	-10.3	-.4	-.7	-.4	121	92	-24
06S 42W 22DCC 01	TO	197.1	-20	-14.0	-.7	-.5	-.6	138	118	-14
06S 42W 30ADA 01	TO									
07S 37W 04BBC 01	TO	139.0	-17		-.7	-.4		148	131	-11
07S 37W 05CCB 01	TO	140.0	-16	-10.1	-.7	-.4	-.4	170	154	-9
07S 38W 28DAA 01		149.9			-.7					
07S 39W 01DCD 01		134.7			.2					
07S 39W 09BBB 01	TO	117.6	-12	-12.8	-.1	-.3	-.5	189	177	-6
07S 39W 24BAA 01	TO	147.6	-11	-13.7	.8	-.3	-.6	163	152	-7
07S 40W 06ADB 01	TO	169.3	-17	-19.9	-.6	-.4	-.8	191	174	-9
07S 40W 29BBA 01	TO	143.2	-22	-21.7	-1.3	-.6	-.9	167	145	-13
07S 40W 35BBB 01	TO	128.1	-26	-25.1	1.5	-.6	-1.0	153	127	-17
07S 40W 36BAB 01	TO	134.2	-29	-24.3	2.7	-.7	-1.0	216	187	-13
07S 41W 07BCB 01	TO	202.3	-22	-27.9	-1.4	-.6	-1.2	120	98	-18
07S 41W 28DBB 01	TO	131.6	-21	-20.2	-1.6	-.5	-.8	169	148	-12
07S 42W 07DAA 01	TO	190.1	-27	-25.7	-1.7	-.7	-1.1	157	130	-17
07S 42W 17CCC 01	TO	142.9	-24	-25.0	-.7	-.6	-1.0	144	120	-17
07S 42W 27AAB 01	TO	169.1	-27	-28.5	-.1	-.7	-1.2	179	152	-15
08S 37W 03ADB 01	TO	159.8	-34	-16.3		-.9	-.7	147	113	-23
08S 37W 21CCC 01	TO	142.3	-22	-21.2	-1.0	-.6	-.9	110	88	-20
08S 37W 32ABB 01	TO	98.1	-15	-18.1	-1.8	-.4	-.8	133	118	-11
08S 38W 17CDD 01	TO	163.9	-21	-21.9	-1.8	-.5	-.9	150	129	-14
08S 38W 24AAB 01	TO	122.0	-12	-11.0	5.1	-.3	-.5	150	138	-8
08S 39W 15CCC 01	TO	166.1	-39	-31.1	-.8	-1.0	-1.3	145	106	-27
08S 40W 12DBA 01	TO	168.7	-49	-35.7	-1.2	-1.2	-1.5	170	121	-29
08S 40W 17CDB 01	TO	136.3	-34	-28.3	.7	-.9	-1.2	175	141	-19
08S 40W 20CCC 01	TO									
08S 40W 25AAC 01	TO	183.3	-50	-25.3	-1.1	-1.3	-1.1	157	107	-32
08S 41W 17CBA 01	TO	151.6	-23	-22.6	-4.5	-.6	-.9	171	148	-13
08S 41W 25BBC 01	TO	122.2	-28	-26.2	-.3	-.7	-1.1	170	142	-16
08S 42W 15DDB 01	TO	128.4	-30	-29.4	-.5	-.8	-1.2	176	146	-17
08S 42W 31DCD 01	TO	82.9	-33	-24.9	-.7	-.8	-1.0	157	124	-21
09S 37W 07DDB 01		93.9			-1.7					

TABLE 2, con't. -- DERIVED HYDROLOGIC DATA, SHERMAN COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1950-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1950	Saturated thickness (feet) 1990	Percentage change saturated thickness 1950-90
09S 38W 13BCC 01	TO	81.4			-2.7					
09S 39W 01DBA 01		142.0			-1.2					
09S 39W 02BAB 01	TO	175.4	-42		-3.1	-1.1		113	71	-37
09S 39W 10CCB 01		151.7			-2.9					
09S 39W 19CCC 01	TO	139.4	-34		-3.4	-.9		140	106	-24
09S 40W 13CDC 01	TO	161.9	-39	-36.9	-1.3	-1.0	-1.5	137	98	-28
09S 40W 29BBB 01	TO	162.5	-41	-43.5	-1.3	-1.0	-1.8	124	84	-32
09S 41W 05DCC 01	TO	173.1	-45	-37.1	-.2	-1.1	-1.5	137	92	-33
09S 41W 14BBC 01		181.5	-53		-1.5	-1.3				
09S 41W 28AAA 01	TO	177.4	-53	-43.4	-1.3	-1.3	-1.8	166	113	-32
09S 41W 34BAB 01	TO	152.1	-41	-38.1	-.5	-1.0	-1.6	179	138	-23
09S 42W 08AAA 01	TO	158.4	-38	-27.4	-.2	-.9	-1.1	151	113	-25
09S 42W 14AAA 01	TO	165.1	-49	-34.1	.7	-1.2	-1.4	175	126	-28
09S 42W 29CBB 01										
09S 42W 35ABB 01	TO	146.2	-44	-43.2	-3.7	-1.1	-1.8	166	122	-27
10S 37W 23ABB 01	TO	200.7	-30	-26.7		-.8	-1.1	118	88	-25
10S 40W 10ADC 01	QA,TO	18.1	-6	-2.1	-.5	-.1	-.1	56	50	-11
10S 41W 15CAD 01	TO,QA	27.1	-15	-15.1	-1.3	-.4	-.6	105	90	-14
10S 42W 20ABB 01		117.0			-1.2					
10S 42W 21BBB 01	TO	116.0	-43	-30.0	-3.3	-1.1	-1.3	150	107	-29
10S 42W 24BAB 01	TO	103.9	-31	-19.9		-.8	-.8	131	100	-24

Stafford County

TABLE 1. – SELECTED HYDROLOGIC DATA, STAFFORD COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1944	1974	1984	1985	1986	1987	1988	1989	1990
21S 11W 07BBB 01	aJ84		1808.	193	20		21.0	22.9		17.9	15.7	21.0	
21S 12W 10CDD 01	aJ73	QU	1845.	200	24	4.9	27.3	29.0	25.1		22.6	27.1	
21S 13W 05CBD 01	aJ56	QU	1893.								27.8	28.0	28.9
21S 13W 27DDD 02	qJ63	QU	1877.	152	11	.6	10.8	11.1	9.0	10.6	7.8	10.8	11.2
21S 14W 22AAC 01	aJ73	QU	1926.	196	16	4.8	21.0	22.7	22.3	22.9	21.1	23.3	23.4
21S 14W 32BAC 01	aJ73	QU	1949.	219	22	16.2	28.5	29.9	30.1	30.7	30.1		30.4
22S 11W 07BBB 01	aJ73	QU	1785.	54	10	3.3	4.8	4.9	4.5	4.6	4.5	5.4	5.2
22S 12W 05BBD 01	aJ73	QU	1870.	220	21	8.9	20.2	21.1	18.1	19.4	16.1	20.2	21.2
22S 12W 30BBD 01	aJ66	QU	1872.	162	13	7.0	17.4	17.7	15.7	16.2	14.1	17.9	18.1
22S 12W 36BBB 02	aJ73	QU	1827.	146		.7	5.0	4.6	3.0	3.8	3.2	5.7	
22S 13W 05CBC 01	aJ73	QU	1905.	165	6	3.1	17.7	18.9	17.1	17.9	15.9	18.9	19.4
22S 13W 12CAC 01	aJ70	QU	1885.	180	20	8.6	21.1	22.2	19.5	20.4	17.4	21.5	22.4
22S 13W 29DAD 01	qJ61	QU	1902.	204	17	5.2	17.8	19.2	17.6	17.6	14.9	19.0	20.1
22S 14W 14CCA 01	aJ72	QU	1930.	200	12	.8	21.8	23.9	21.3	22.0	19.8	23.8	24.5
22S 14W 35DDB 01	aJ73	QU	1930.	130	20	11.1	28.4	29.8	27.9	27.9	25.6	29.2	30.4
23S 11W 02BBB 01	aJ74	QU	1789.	125		1.0	3.1	2.9	1.3	1.2	1.6	3.7	2.2
23S 11W 22BCC 01	aJ70	QU	1802.	172	5	17.4	22.8	23.0	21.4	21.8	20.6	23.1	25.6
23S 11W 36CCA 01	aJ88		1803.									19.7	19.4
23S 12W 07DBD 01	aJ66	QU	1859.	174	1	.5	8.8	8.9	7.4	8.1	7.0	9.0	
23S 12W 22BCC 01	aJ73	QU	1853.	163	4	5.4	15.2	14.9	12.1	13.2	11.5	16.5	15.3
23S 12W 36BBC 01	aJ70	QU	1849.	154	8	11.7	18.3	17.9	14.6	14.9	13.3	16.6	16.4
23S 13W 08CCB 01	qJ72	QU	1895.	120	8	4.4	13.0	13.6	12.2	12.4	10.5	13.4	14.3
23S 13W 30CBB 01	aJ73	QU	1906.	86	11	7.9	13.2	13.4	12.5	12.3	11.4	13.4	
23S 13W 35CCA 01	aJ68	QU	1897.	150	19	7.3	20.2	20.6	19.3	18.7	17.5	20.3	21.2
23S 14W 15ADD 01	aJ70	QU	1927.	76	7	3.3	10.5	10.6	10.3	10.6	9.8	11.9	12.7
23S 14W 30BBB 01	qJ74	QU	1988.	168	24	34.4	40.8	42.1	42.0	41.5	40.7	43.3	43.8
24S 11W 14CAB 01	aJ73	QU	1813.	156	24	30.0	33.5	34.2	33.8	32.8	29.3	32.3	32.2
24S 11W 17DDB 01	aJ73	QU	1833.	133	23	22.8	24.3	24.5	23.6	22.3	20.2	22.6	22.2
24S 12W 04CDB 01	aJ88		1875.									22.2	22.5
24S 12W 17CAB 01	aJ73	QU	1893.	144	22	16.8	28.4	27.8	24.6	24.7	22.8	27.5	27.9
24S 12W 34ABC 01	aJ73	QU	1880.	150	29	20.0	23.7	23.6	22.0	19.3	17.2	21.0	21.4
24S 13W 16ACA 01	aJ68	QU	1915.	137	18	8.6	21.6	21.9	20.6	20.2	19.0	21.8	22.6
24S 13W 20CDD 01	qJ86		1932.							22.1	20.7	22.6	23.6
24S 13W 36DDD 01	aJ79		1907.	155	21		22.7	22.1	19.2	18.8	15.9	20.6	21.7
24S 14W 17AAC 01	aJ67	QU	1982.	132	27	21.7	30.5	33.2	30.8	30.9	30.1	32.9	33.3
24S 14W 31BBD 01	aJ65	QU	1998.	158	23	7.8	20.5	21.2	20.1	20.4	17.6	21.2	22.7
24S 15W 10BAB 01	aJ70	QU	2024.	114	24	14.6	27.8	28.9	29.0	29.4	28.3	30.7	31.3
24S 15W 32DBC 01	aJ73	QU	2044.	184	21	9.9	25.0	26.7	27.0	26.6	23.5	26.9	27.9
25S 11W 02ACB 01	aJ73	QU	1770.	90	10	10.3	11.8	11.7	11.4	11.0	10.4	11.6	11.4
25S 11W 23DDD 01	qJ74	QU	1796.	156	13	12.9	17.0	16.8	15.6	14.9	12.1	15.9	14.9
25S 12W 11AAA 01	aJ84		1846.	81	16		19.4	17.0	13.0	11.2	9.9	15.9	14.0
25S 12W 16DCA 01	aJ88		1868.									13.8	12.2
25S 12W 24DDB 01	aJ73	QU	1840.	145	17	10.2	13.7	13.6	12.3	11.7	10.3	13.1	12.1
25S 13W 16AAC 01	qJ77		1940.	142	22		27.2	27.9	23.2	23.3	20.2	27.4	27.6
25S 13W 31DDA 01	aJ84		1973.	221	38		23.0	21.1	18.9	18.9		22.4	23.4
25S 13W 36DCC 01	aJ84		1902.	177	22		15.3	14.7		9.7	8.5	13.8	12.7
25S 14W 04AAD 01	aJ73	QU	1969.	149	24	9.2	14.0	14.4	13.5	13.9	12.3	14.6	14.5
25S 14W 21DDB 01	aJ84		1980.							12.2	10.4	14.4	14.8
25S 14W 30CDB 01	aJ59	QU	2004.	214	14	7.2	15.7	17.0	15.3	14.5	12.4	16.1	16.5
25S 15W 11BCB 01	aJ73	QU	2020.	174	16	11.7	17.4	18.6	19.7	21.1	20.1	20.4	20.9
25S 15W 29BBD 01	aJ73	QU	2034.	184	16	4.3	11.9	12.3	11.2	10.9	8.7	12.3	12.1

TABLE 2. – DERIVED HYDROLOGIC DATA, STAFFORD COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1944-90	1974-90	1989-90	Average annual water-level change (feet/year) 1944-90	1974-90	Saturated thickness (feet) 1944	1989	Percentage change saturated thickness 1944-90
21S 11W 07BBB 01										
21S 12W 10CDD 01	QU									
21S 13W 05CBD 01	QU	28.9			-.9					
21S 13W 27DDD 02	QU	11.2	0	-10.6	-.4		-.7	141	141	0
21S 14W 22AAC 01	QU	23.4	-7	-18.6	-.1	-.2	-1.2	180	173	-4
21S 14W 32BAC 01	QU	30.4	-8	-14.2		-.2	-.9	197	189	-4
22S 11W 07BBB 01	QU	5.2	5	-1.9	.2	.1	-.1	44	49	11
22S 12W 05BBD 01	QU	21.2	0	-12.3	-1.0		-.8	199	199	0
22S 12W 30BBD 01	QU	18.1	-5	-11.1	-.2	-.1	-.7	149	144	-3
22S 12W 36BBB 02	QU									
22S 13W 05CBC 01	QU	19.4	-13	-16.3	-.5	-.3	-1.0	159	146	-8
22S 13W 12CAC 01	QU	22.4	-2	-13.8	-.9		-.9	160	158	-1
22S 13W 29DAD 01	QU	20.1	-3	-14.9	-1.1	-.1	-.9	187	184	-2
22S 14W 14CCA 01	QU	24.5	-13	-23.7	-.7	-.3	-1.5	188	176	-6
22S 14W 35DDB 01	QU	30.4	-10	-19.3	-1.2	-.2	-1.2	110	100	-9
23S 11W 02BBB 01	QU	2.2		-1.2	1.5		-.1		123	
23S 11W 22BCC 01	QU	25.6	-21	-8.2	-2.5	-.5	-.5	167	146	-13
23S 11W 36CCA 01		19.4			.3					
23S 12W 07DBD 01	QU									
23S 12W 22BCC 01	QU	15.3	-11	-9.9	1.2	-.2	-.6	159	148	-7
23S 12W 36BBC 01	QU	16.4	-8	-4.7	.2	-.2	-.3	146	138	-5
23S 13W 08CCB 01	QU	14.3	-6	-9.9	-.9	-.1	-.6	112	106	-5
23S 13W 30CBB 01	QU									
23S 13W 35CCA 01	QU	21.2	-2	-13.9	-.9		-.9	131	129	-2
23S 14W 15ADD 01	QU	12.7	-6	-9.4	-.8	-.1	-.6	69	63	-9
23S 14W 30BBB 01	QU	43.8	-20	-9.4	-.5	-.4	-.6	144	124	-14
24S 11W 14CAB 01	QU	32.2	-8	-2.2	.1	-.2	-.1	132	124	-6
24S 11W 17DDB 01	QU	22.2	1	.6	.4			110	111	1
24S 12W 04CDB 01		22.5			-.3					
24S 12W 17CAB 01	QU	27.9	-6	-11.1	-.4	-.1	-.7	122	116	-5
24S 12W 34ABC 01	QU	21.4	8	-1.4	-.4	.2	-.1	121	129	7
24S 13W 16ACA 01	QU	22.6	-5	-14.0	-.8	-.1	-.9	119	114	-4
24S 13W 20CDD 01		23.6			-1.0					
24S 13W 36DDD 01		21.7	-1		-1.1			134	133	-1
24S 14W 17AAC 01	QU	33.3	-6	-11.6	-.4	-.1	-.7	105	99	-6
24S 14W 31BBD 01	QU	22.7	0	-14.9	-1.5		-.9	135	135	0
24S 15W 10BAB 01	QU	31.3	-7	-16.7	-.6	-.2	-1.0	90	83	-8
24S 15W 32DBC 01	QU	27.9	-7	-18.0	-1.0	-.2	-1.1	163	156	-4
25S 11W 02ACB 01	QU	11.4	-1	-1.1	.2		-.1	80	79	-1
25S 11W 23DDD 01	QU	14.9	-2	-2.0	1.0		-.1	143	141	-1
25S 12W 11AAA 01		14.0	2		1.9			65	67	3
25S 12W 16DCA 01		12.2			1.6					
25S 12W 24DDB 01	QU	12.1	5	-1.9	1.0	.1	-.1	128	133	4
25S 13W 16AAC 01		27.6	-6		-.2	-.1		120	114	-5
25S 13W 31DDA 01		23.4	15		-1.0	.3		183	198	8
25S 13W 36DCC 01		12.7	9		1.1	.2		155	164	6
25S 14W 04AAD 01	QU	14.5	10	-5.3	.1	.2	-.3	125	135	8
25S 14W 21DDB 01		14.8			-.4					
25S 14W 30CDB 01	QU	16.5	-3	-9.3	-.4	-.1	-.6	200	198	-1
25S 15W 11BCB 01	QU	20.9	-5	-9.2	-.5	-.1	-.6	158	153	-3
25S 15W 29BBD 01	QU	12.1	4	-7.8	.2	.1	-.5	168	172	2

Stanton County

TABLE 1. -- SELECTED HYDROLOGIC DATA, STANTON COUNTY

Well number	Data type	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
27S 39W 27BBA 01	qJ58	QU,TO	3175.	395	68	102.2	181.9			181.0	176.4	227.6	211.0
27S 40W 07ABB 01	aJ85		3273.	228	63			70.7		106.8	119.1		167.9
27S 40W 16CCC 01	aJ85		3259.						101.2	107.1	115.3	121.6	122.0
27S 40W 25CBC 01	aJ59	QU,TO	3228.	328	73	85.8	178.0	156.3	165.0	169.2	166.0	191.3	175.4
27S 41W 31CCB 02	aJ59	QU,TO	3402.	308	156	167.6	248.4	248.2	248.7	243.3		250.3	
27S 41W 35CCC 01	aJ59	QU,TO,KJ	3340.			135.0	167.8	168.8	169.3	172.5	174.8	179.7	184.0
27S 42W 11DBD 01	aJ59	QU,TO	3409.	250	120	116.0	174.6						
27S 42W 17CCC 01	aJ86		3496.						237.7	226.3	229.2	230.6	230.5
27S 42W 31CCC 01	aJ58	QU,TO,KJ	3537.	292	167	193.2	235.7	239.6	238.1	240.5	241.4	245.0	247.5
27S 43W 02BBD 01	aJ85		3544.	319	166			226.0	228.1	232.2		239.3	241.7
28S 39W 14BBC 01	qJ59	QU,TO,KJ	3158.	408	53	97.1	141.5		144.9	146.0	146.6	150.4	152.2
28S 39W 16CCC 01	aJ84		3171.	391	49			149.7	149.7	157.6	162.8	187.0	186.4
28S 39W 33ACC 01	aJ59	QU,TO	3201.	428	82	120.1	179.7	178.0	181.0	186.3	185.2	186.0	182.8
28S 39W 36ABB 01	qJ59	QU,TO	3145.	412	57	100.3	181.0	179.7	187.7	189.5	191.6	197.8	198.4
28S 40W 04CCC 01	aJ59	QU,TO	3289.	354	110	115.6	194.6	194.6	194.1	221.6	214.2	231.7	223.3
28S 40W 12DDD 02	aJ63	QU,TO	3225.	385	83	107.4	202.7	199.9	211.0	207.7	210.2	224.2	218.4
28S 40W 23ACC 01	aJ59	QU,TO	3254.	404	103	120.2	172.2	179.2	181.5		183.8	194.9	
28S 40W 32CCB 01	aJ59	QU,TO	3320.	446	158	172.5	237.7	237.8	237.1				256.1
28S 41W 02CCC 01	aJ85		3343.	343	141			235.2	234.9	236.2	238.3	238.5	238.8
28S 41W 19CBB 01	aJ85		3433.	333	183			224.4	224.0				
28S 41W 31BDD 01	aJ59	QU,TO	3414.	280	155	146.0	173.5		172.3	169.0	173.2		
28S 42W 08CCC 01	aJ59	QU,TO	3539.	300	199	233.9	261.5	256.7	260.9	259.0	259.9	271.9	274.5
28S 42W 20BCC 01	aJ84		3553.						251.0	250.0	250.5	251.6	251.6
28S 42W 32BBB 01	aJ59	KJ	3540.			215.9	236.6	233.0	229.9	228.6	233.7	246.6	235.5
29S 39W 17BCB 01	aJ59	QU,TO	3239.	456	108	128.2		228.0	220.2	218.1	235.6		
29S 39W 21DBD 01	aJ59	QU,TO	3183.	413	62	82.6	162.4	166.4	174.1	179.4	181.8	191.5	192.7
29S 39W 24DDA 01	aJ48	QU,TO	3154.	449	62	80.0	150.7	154.6	157.0	149.9	170.9	178.4	181.0
29S 40W 28ABB 01	aJ84		3282.	422	132			219.0	223.5	227.6	230.8	237.6	241.6
29S 41W 13ACC 01	aJ59	QU,TO	3344.	400	176	192.6	257.0	258.5	262.2	267.1	266.5	275.1	275.9
29S 41W 31CBD 01	aJ59	KJ	3477.			236.5	240.9	237.9	238.7	262.2		272.0	
29S 42W 08CDC 01	aJ59	KJ	3517.			186.9	197.9	193.6	195.9	192.7	189.3	194.6	194.7
29S 42W 24CCC 01	qJ60	QU,TO,KJ	3484.			221.2	205.8	205.2	199.8	206.3	205.1	207.2	205.5
29S 43W 33CDB 01	aJ59	KJ	3654.			119.8	116.8		117.2	115.8	117.0	115.0	116.4
30S 39W 18BBB 01	aJ59	QU,TO,KJ	3238.			121.2	190.2		201.1	205.9	208.0	214.8	
30S 39W 23BBB 01	aJ58	QU,TO	3179.	404	72	89.5	163.9	173.0	167.7	167.7	167.6	162.1	161.8
30S 40W 12BBB 01	aJ84		3274.	434	138			225.2	232.6	240.3	241.4	246.3	258.7
30S 40W 24CDC 01	aJ59	QU,TO,KJ	3237.			115.3	158.6	161.7	166.0	167.1	168.8	174.5	173.9
30S 40W 33CCB 01	aJ59	KJ	3309.			164.3	181.2	184.4	185.3	186.2	186.8	188.1	187.5
30S 41W 13CCC 02	aJ77						198.4	198.3		201.7	208.0	212.4	204.8
30S 41W 23DDB 01	aJ84		3365.	205	178			189.8	190.8	190.9	190.2	191.1	191.0
30S 42W 12ACC 01	aJ59	KJ	3457.			188.0	193.9	195.5	192.3	192.0	193.4	198.9	192.0
30S 42W 16BDB 01	aJ59	KJ	3524.			187.8	183.3	179.6	181.0	176.5	174.8	180.0	173.8
30S 43W 34BBB 01	qJ58	QU,TO	3622.	103	42	66.3	81.7	81.0	74.7	74.4	73.7	78.2	79.3
30S 43W 36BBB 01	aJ59	QU,TO,KJ	3595.			71.6	74.7	76.1		79.4		81.4	83.0

TABLE 2. -- DERIVED HYDROLOGIC DATA, STANTON COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1940-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1940	Saturated thickness (feet) 1990	Percentage change saturated thickness 1940-90
27S 39W 02BBB 01	QU,TO									
27S 39W 27BBA 01	QU,TO	211.0	-143	-108.8	16.6	-2.9	-4.5	327	184	-44
27S 40W 07ABB 01		167.9	-105			-2.1		165	60	-64
27S 40W 16CCC 01		122.0			-.4					
27S 40W 25CBC 01	QU,TO	175.4	-102	-89.6	15.9	-2.0	-3.7	255	153	-40
27S 41W 31CCB 02	QU,TO									
27S 41W 35CCC 01	QU,TO	184.0		-49.0	-4.3		-2.0			
27S 42W 11DBD 01	QU,TO									
27S 42W 17CCC 01		230.5			.1					
27S 42W 31CCC 01	QU,TO	247.5	-81	-54.3	-2.5	-1.6	-2.3	125	45	-64
27S 43W 02BBD 01		241.7	-76		-2.4	-1.5		153	77	-50
28S 39W 14BBC 01	QU,TO	152.2	-99	-55.1	-1.8	-2.0	-2.3	355	256	-28
28S 39W 16CCC 01		186.4	-137		.6	-2.7		342	205	-40
28S 39W 33ACC 01	QU,TO	182.8	-101	-62.7	3.2	-2.0	-2.6	346	245	-29
28S 39W 36ABB 01	QU,TO	198.4	-141	-98.1	-.6	-2.8	-4.1	355	214	-40
28S 40W 04CCC 01	QU,TO	223.3	-113	-107.7	8.4	-2.3	-4.5	244	131	-46
28S 40W 12DDD 02	QU,TO	218.4	-135	-111.0	5.8	-2.7	-4.6	302	167	-45
28S 40W 23ACC 01	QU,TO									
28S 40W 32CCB 01	QU,TO	256.1	-98	-83.6		-2.0	-3.5	288	190	-34
28S 41W 02CCC 01		238.8	-98		-.3	-2.0		202	104	-49
28S 41W 19CBB 01										
28S 41W 31BDD 01	QU,TO									
28S 42W 08CCC 01	QU,TO	274.5	-76	-40.6	-2.6	-1.5	-1.7	101	26	-74
28S 42W 20BCC 01		251.6			.0					
28S 42W 32BBB 01	KJ	235.5		-19.6	11.1		-.8			
29S 39W 17BCB 01	QU,TO									
29S 39W 21DBD 01	QU,TO	192.7	-131	-110.1	-1.2	-2.6	-4.6	351	220	-37
29S 39W 24DDA 01	QU,TO	181.0	-119	-101.0	-2.6	-2.4	-4.2	387	268	-31
29S 40W 28ABB 01		241.6	-110		-4.0	-2.2		290	180	-38
29S 41W 13ACC 01	QU,TO	275.9	-100	-83.3	-.8	-2.0	-3.5	224	124	-45
29S 41W 31CBD 01	KJ									
29S 42W 08CDC 01	KJ	194.7		-7.8	-.1		-.3			
29S 42W 24CCC 01	QU,TO	205.5		15.7	1.7		.7			
29S 43W 33CDB 01	KJ	116.4		3.4	-1.4		.1			
30S 39W 18BBB 01	QU,TO									
30S 39W 23BBB 01	QU,TO	161.8	-90	-72.3	.3	-1.8	-3.0	332	242	-27
30S 40W 12BBB 01		258.7	-121		-12.4	-2.4		296	175	-41
30S 40W 24CDC 01	QU,TO	173.9		-58.6	.6		-2.4			
30S 40W 33CCB 01	KJ	187.5		-23.2	.6		-1.0			
30S 41W 13CCC 02		204.8			7.6					
30S 41W 23DDB 01		191.0	-13		.1	-.3		27	14	-48
30S 42W 12ACC 01	KJ	192.0		-4.0	6.9		-.2			
30S 42W 16BDB 01	KJ	173.8		14.0	6.2		.6			
30S 43W 34BBB 01	QU,TO	79.3	-37	-13.0	-1.1	-.7	-.5	61	24	-61
30S 43W 36BBB 01	QU,TO	83.0		-11.4	-1.6		-.5			

Stevens County

TABLE 1. – SELECTED HYDROLOGIC DATA, STEVENS COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1940	1966	1984	1985	1986	1987	1988	1989	1990
31S 35W 15BAA 01	aJ59	QU,TO	3009.	449	224	236.4	282.8	285.8	288.5	289.4	290.3	296.4	291.3
31S 35W 19CCC 01	uJ62	QU,TO	3039.	490	174	187.3	223.5	224.6	226.0	227.0	225.3		
31S 35W 26DCC 01	aJ64	QU,TO	2988.	447	213	230.2		281.4	285.6	286.1	287.5		297.0
31S 36W 02CDD 01	qJ58	QU,TO	3019.	365	139	155.8	182.7	182.1	184.0	180.6	182.7	178.2	177.9
31S 36W 27BCB 01	aJ64	QU,TO	3071.	461	136	137.3	183.9	182.8			184.6		198.7
31S 37W 09BCC 01	aJ58	QU,TO	3103.	403	108	130.1	198.0	200.8	204.3				
31S 37W 22BCC 01	qJ56	QU,TO	3096.	440	106	128.3	192.2	192.0	193.1	197.4	202.1	228.3	227.9
31S 37W 30DDB 01	aJ84		3138.	498	123		200.7	201.0	216.9	219.8	218.9	226.2	224.8
31S 38W 17CDA 01	aJ67	QU,TO	3170.	380	110	131.0	174.4				183.5		181.3
31S 39W 23BBB 01	aJ58	QU,TO	3199.	259	98	116.9		163.8		163.4			178.6
32S 35W 08DDD 01	aJ70	QU,TO	3012.	502	130		160.3	161.0	161.6	167.3	166.6	174.3	171.7
32S 36W 21AAC 01	aJ84		3067.	467	125		194.2	187.5	183.7	189.1	191.0	194.7	195.8
32S 36W 27DDD 01	aJ81		3041.		109		153.0	149.7	151.3		152.6	160.6	
32S 37W 10DCC 01	aJ58	QU,TO	3120.	540	127	136.4	166.4	166.5	167.3		167.6	178.7	174.1
32S 37W 26BAC 01	aJ83		3118.		124		120.2	120.5	119.6	117.5	121.4	116.7	123.4
32S 38W 11ADA 01	aJ65	QU,TO	3159.	529	118	114.1	128.3	129.9	131.4	132.9	134.6	134.1	135.6
32S 38W 23BDD 01	aJ65	QU,TO	3175.	505	116	106.2	128.3	129.2	131.0	133.8	133.2	140.8	141.0
32S 39W 02BBB 01	aJ58	QU,TO	3216.	296	96	132.9	208.5	206.5	189.9	195.7	200.5	232.2	204.3
32S 39W 14DDD 01	aJ84		3202.					64.5	66.0	64.7	65.3	66.6	68.3
33S 35W 23CBB 01	aJ81		2968.		104		129.4	124.7	125.0	133.0	132.5		136.8
33S 36W 03ACA 01	aJ81		3027.		90		122.4	121.2	121.8		120.8		
33S 36W 26DDD 01	aJ42	QU,TO	3032.	422	121	118.7	150.1	144.3	146.7	151.9	151.2	157.5	148.4
33S 37W 17CCC 01	aJ64	QU,TO	3124.	554	83	89.3	98.4	97.6	98.4	100.1	103.3	107.8	105.2
33S 37W 23CDB 01	aJ64	QU,TO	3092.	562	87	83.8	95.3	95.9	96.0	96.6	96.1	96.8	97.0
33S 38W 06AAB 01	aJ59	QU,TO	3203.	378	93	94.6	95.7	95.5	92.1	92.3	96.0	92.9	
33S 38W 10ACC 01	aJ58	QU,TO	3166.	466	101	107.7	142.2	142.0	138.6	140.9	140.6	149.1	145.9
33S 38W 20DAD 01	aJ83						164.3	147.3	149.8	152.5	153.2	158.7	163.2
34S 35W 03DCC 01	aJ82		2981.		108		136.7	134.6	137.2	139.5	140.5	148.5	145.9
34S 35W 07CBB 01	qJ82		3014.				162.8	157.6	161.7	160.2	161.1	174.0	176.9
34S 35W 26ACC 01	aJ81		2977.		112		128.0	121.0	123.6	128.5	128.7	131.3	131.2
34S 36W 10CAC 01	aJ81		3065.		135		146.5	147.7	150.9	154.1	155.4	161.3	159.1
34S 36W 21DBD 01	aJ84		3079.		144		158.1	156.8	158.2	161.2	161.9	169.4	163.8
34S 37W 08DAC 01	aJ64	QU,TO	3162.	642	133	113.0	127.4	126.0	127.6	131.7	133.0	137.8	135.6
*34S 37W 27ABC 01	aJ65	QU,TO	3132.	532	125	105.8	115.7	116.2	120.2	122.8	124.3		
34S 37W 29BBD 01	aJ84		3170.	550	138		158.3	155.0	153.5	156.0	155.6	157.3	150.7
34S 37W 35AAD 01	aJ84		3111.	666	129		124.7	123.6	122.2	124.5	122.9	124.5	124.7
34S 38W 02CAC 01	aJ67	QU,TO	3197.	577	139	136.0	154.6						
34S 38W 34CAA 01	aJ84		3194.					153.3	154.7	157.4		162.4	163.9
34S 39W 02CCA 01	aJ64	QU,TO	3248.	533	118	108.3	102.5	100.5	99.9	100.1	99.8	100.0	100.6
34S 39W 15CAD 01	aJ65	QU,TO	3280.	510	141	141.7	139.2	135.9	136.7	137.0	141.2		138.1
35S 35W 15BCC 01	aJ84		2978.	618	107			107.0	108.3	112.8	111.4		112.6
35S 36W 01AAA 01	aJ70	QU,TO	3022.	590	120		122.2	120.0	121.1	125.6	127.7	128.3	130.4
35S 36W 15AAD 01	aJ84		3025.		93		106.5	103.9	104.8	107.1	105.4	108.3	109.8
35S 37W 16BCC 01	aJ84		3138.				148.1	127.8	128.3	131.6	131.6	134.1	135.9
35S 39W 10CAD 01	aJ67	QU,TO	3302.	502	183	188.0	202.3	191.0	191.8	195.5	198.3	196.2	199.8

TABLE 2. -- DERIVED HYDROLOGIC DATA, STEVENS COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1940-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1940-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1940	Saturated thickness (feet) 1990	Percentage change saturated thickness 1940-90
31S 35W 15BAA 01	QU,TO	291.3	-67	-54.9	5.1	-1.3	-2.3	225	158	-30
31S 35W 19CCC 01	QU,TO									
31S 35W 26DCC 01	QU,TO	297.0	-84	-66.8		-1.7	-2.8	234	150	-36
31S 36W 02CDD 01	QU,TO	177.9	-39	-22.1	.3	-.8	-.9	226	187	-17
31S 36W 27BCB 01	QU,TO	198.7	-63	-61.4		-1.3	-2.6	325	262	-19
31S 37W 09BCC 01	QU,TO									
31S 37W 22BCC 01	QU,TO	227.9	-122	-99.6	.4	-2.4	-4.1	334	212	-37
31S 37W 30DDB 01		224.8	-102		1.4	-2.0		375	273	-27
31S 38W 17CDA 01	QU,TO	181.3	-71	-50.3		-1.4	-2.1	270	199	-26
31S 39W 23BBB 01	QU,TO	178.6	-81	-61.7		-1.6	-2.6	161	80	-50
32S 35W 08DDD 01	QU,TO	171.7	-42		2.6	-.8		372	330	-11
32S 36W 21AAC 01		195.8	-71		-1.1	-1.4		342	271	-21
32S 36W 27DDD 01										
32S 37W 10DCC 01	QU,TO	174.1	-47	-37.7	4.6	-.9	-1.6	413	366	-11
32S 37W 26BAC 01		123.4	1		-6.7					
32S 38W 11ADA 01	QU,TO	135.6	-18	-21.5	-1.5	-.4	-.9	411	393	-4
32S 38W 23BDD 01	QU,TO	141.0	-25	-34.8	-.2	-.5	-1.4	389	364	-6
32S 39W 02BBB 01	QU,TO	204.3	-108	-71.4	27.9	-2.2	-3.0	200	92	-54
32S 39W 14DDD 01		68.3			-1.7					
33S 35W 23CBB 01		136.8	-33			-.7				
33S 36W 03ACA 01										
33S 36W 26DDD 01	QU,TO	148.4	-27	-29.7	9.1	-.5	-1.2	301	274	-9
33S 37W 17CCC 01	QU,TO	105.2	-22	-15.9	2.6	-.4	-.7	471	449	-5
33S 37W 23CDB 01	QU,TO	97.0	-10	-13.2	-.2	-.2	-.5	475	465	-2
33S 38W 06AAB 01	QU,TO									
33S 38W 10ACC 01	QU,TO	145.9	-45	-38.2	3.2	-.9	-1.6	365	320	-12
33S 38W 20DAD 01		163.2			-4.5					
34S 35W 03DCC 01		145.9	-38		2.6	-.8				
34S 35W 07CBB 01		176.9			-2.9					
34S 35W 26ACC 01		131.2	-19		.1	-.4				
34S 36W 10CAC 01		159.1	-24		2.2	-.5				
34S 36W 21DBD 01		163.8	-20		5.6	-.4				
34S 37W 08DAC 01	QU,TO	135.6	-3	-22.6	2.2	-.1	-.9	509	506	-1
*34S 37W 27ABC 01	QU,TO									
34S 37W 29BBD 01		150.7	-13		6.6	-.3		412	399	-3
34S 37W 35AAD 01		124.7	4		-.2	.1		537	541	1
34S 38W 02CAC 01	QU,TO									
34S 38W 34CAA 01		163.9			-1.5					
34S 39W 02CCA 01	QU,TO	100.6	17	7.7	-.6	.3	.3	415	432	4
34S 39W 15CAD 01	QU,TO	138.1	3	3.6		.1	.1	369	372	1
35S 35W 15BCC 01		112.6	-6			-.1		511	505	-1
35S 36W 01AAA 01	QU,TO	130.4	-10		-2.1	-.2		470	460	-2
35S 36W 15AAD 01		109.8	-17		-1.5	-.3				
35S 37W 16BCC 01		135.9			-1.8					
35S 39W 10CAD 01	QU,TO	199.8	-17	-11.8	-3.6	-.3	-.5	319	302	-5

Sumner County

TABLE 1. -- SELECTED HYDROLOGIC DATA, SUMNER COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
*30S 04W 34BAA 01	au81		1460.					23.2	22.5	23.1	22.2		24.9
*31S 04W 01DAC 01	aF90		1441.										18.4
*31S 04W 02BBB 01	au86		1435.						5.8	5.6	5.5		7.9
31S 04W 01DAC 01	au86		1441.						15.5	15.2	15.0		18.4

TABLE 2. -- DERIVED HYDROLOGIC DATA, SUMNER COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
*30S 04W 34BAA 01		24.9								
*31S 04W 01DAC 01		18.4								
*31S 04W 02BBB 01		7.9								
31S 04W 01DAC 01		18.4								
31S 04W 01BBB 01										

Thomas County

TABLE 1. -- SELECTED HYDROLOGIC DATA, THOMAS COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
06S 31W 03ADB 01	aJ65	TO	2957.	192	109	115.0	115.6	116.7	115.7	115.7	115.0	116.5	115.6
06S 31W 33CCD 01	aJ64	QA,TO	2916.	131	18	10.0		30.4	30.3	31.1	31.9	33.2	34.5
06S 32W 12CBC 01	aJ42	TO	3020.	210	115	114.0	120.8	119.2	119.2	119.7		117.2	123.2
06S 32W 29CDC 01	aJ64	TO	3077.	204	113	111.0	124.1	125.1	123.7	122.4	123.2	125.6	126.2
06S 33W 07BBB 01	aJ79	TO	3177.	234	137		139.3	141.2	137.8	138.9	138.4	139.8	141.3
06S 33W 23DDD 01	aJ78	QA	2997.	81	9		12.0	11.5	11.4	12.8	12.1	13.8	16.0
06S 34W 01DDD 01	aJ71	TO						143.4	141.6	143.1	142.7	143.6	144.9
06S 34W 11CDD 01	aJ67	TO	3218.	253	158	156.0	163.0	168.7	161.7	161.3	160.1	161.4	163.1
06S 34W 17CBC 01	aJ62	TO	3261.	258	151	151.0	158.4	158.1	158.7	159.1	159.0	159.0	160.9
06S 34W 22DCA 01	aJ84		3207.					132.6	128.0	128.1		130.1	131.4
06S 34W 31CDB 01	aJ85								130.6	131.7	136.5	133.3	134.6
06S 35W 02CDD 01	aJ64	TO	3245.	250	117	127.0	129.8	129.9	129.7	129.8	129.9	130.3	129.3
06S 35W 26ACB 01	aJ65	TO	3300.	255	151	150.0	154.2	154.6	154.8	155.2	156.7	157.5	159.5
06S 36W 06BCD 01	aJ64	TO	3408.	323	174	178.0		188.6	190.5	188.9	189.2	189.6	189.7
06S 36W 11ACC 01	aJ64	TO	3360.	280	168	161.0		166.1	167.1	166.8	167.2	168.5	170.7
06S 36W 30DCB 01	aJ64	TO	3417.	307	152	147.0		155.4	155.4	155.5	156.1	156.7	156.9
06S 36W 34DDB 01	aJ64	TO	3334.	246	99	94.0	102.7	102.0	102.6	103.2	103.0	103.6	103.6
07S 31W 01DCA 01	aJ64	TO	2956.	246	108	101.0	114.5	121.1	123.5		125.1		
07S 32W 07ACA 01	aJ42	TO	3056.	146	68	64.0	79.4	79.4	79.0	79.5	79.9	80.8	81.5
07S 32W 13AAA 01	aJ64	TO	3037.	234	102	101.0		122.9	123.3	123.8	125.6	126.3	
07S 32W 33BCB 01	aJ84		3082.					114.6	115.3	116.1	116.4	118.5	120.7
07S 33W 07BDA 01	aJ64	TO	3203.	254	141	149.0	155.0	154.4	154.4	155.6	155.3	155.5	155.8
07S 33W 35ADD 01	aJ65	TO	3145.	252	131	131.0	150.6	151.0	150.6		152.6		160.8
07S 34W 25AAA 01	aJ66	TO	3167.	240	106	106.0	112.6	113.3	112.2	113.3	112.5	112.5	115.0
07S 34W 26DBD 01	aJ64	TO	3177.	230	104	104.0		118.5	112.4	119.0	119.6	113.8	113.9
07S 35W 09CCC 01	aJ80	TO	3315.	265	124		127.5	126.8	128.1	128.9	129.8	131.5	132.6
07S 36W 17CCC 01	aJ62	TO	3417.	267	139	134.0	142.9	143.2	143.6	145.5	147.2	147.7	150.5
07S 36W 35CBB 01	aJ42	TO	3341.	221	82	82.0		91.6	93.0	88.6	91.4		
08S 31W 03CDD 01	aJ80	TO	3003.		110		133.4	135.0	135.2	137.7	139.0	141.0	144.1
08S 31W 20CDD 01	aJ64	TO	3026.	220	98	101.0	118.3	120.2	118.0	120.1	121.7	123.8	125.9
08S 32W 07BAA 01	aJ64	TO	3102.	272	98	99.0	120.4	121.2	121.1	123.1	123.4	136.2	133.3
08S 32W 12DBC 01	aJ64	TO	3057.	217	110	108.0	116.6	116.3	117.0	118.4	119.5	121.6	123.9
08S 32W 27DAB 01	aJ42	TO	3078.	228	112	110.0		122.3	124.1	128.1	123.8	126.0	127.2
08S 33W 34BBC 01	aJ64	TO	3168.	197	130	130.0	148.7	149.3	151.7	155.4	155.9	157.8	159.4
08S 34W 01BAC 01	aJ47	TO	3177.	270	113	116.0		125.9	124.4	126.5	126.7	127.6	128.7
08S 34W 06CBC 01	aJ64	TO	3266.	227	130	135.0	135.5		137.9	149.7	137.9	153.6	140.0
08S 34W 23CBD 01	aJ64	TO	3232.	235	162	155.0	176.3		178.5		180.4	182.4	184.6
08S 34W 29CCC 01	aJ84		3283.					198.3	205.0	206.8	207.5	209.1	211.4
08S 35W 04CCC 01	aJ84		3302.					94.8	94.8	94.8	94.8	95.0	95.2
08S 36W 15CBB 01	aJ84		3365.					85.4	85.9	86.1	86.1	86.3	87.0
08S 36W 18ABA 02	aJ42	TO	3428.		120			129.1	129.5	132.7	131.3	132.7	131.9
08S 36W 31BCD 01	aJ84		3369.						45.2	45.2	45.0		46.7
09S 31W 10BBB 01	aJ66	TO	2999.	177	85	83.0	88.8	89.6	92.3	90.2	90.5	92.4	95.3
09S 31W 17CCC 01	aJ84		3016.					91.0	88.6	89.9	89.9	91.0	92.8
09S 31W 36AAB 01	aJ64	TO	3013.	209	130	131.0	141.8	143.1	142.4	143.4	143.7		147.0

TABLE 1, con't. -- SELECTED HYDROLOGIC DATA, THOMAS COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
09S 32W 03AAA 01	aJ84		3051.					99.2	97.5	99.4	99.9	101.1	101.7
09S 32W 27BCD 01	aJ64	TO	3076.	207	97	98.0	119.7	118.7	121.4	121.6	123.3	124.3	125.1
09S 33W 35AAD 01	aJ64	TO	3145.	250	125	129.0	156.3	156.9	157.4	158.6	158.8	159.8	162.8
09S 34W 11CCC 01	aJ85		3180.					118.4	120.2	122.8	123.9	125.9	128.5
09S 34W 12ADA 01	aJ79	TO	3199.	269	134		157.7	159.0	159.7	161.5	162.7	164.6	167.8
09S 34W 17ABA 01	aJ84		3229.					153.4	154.2	155.5	155.9	157.2	158.7
09S 35W 32DAA 01	aJ68	TO	3361.	235	182	188.0	188.2	186.8	186.8	193.4	195.7	201.6	205.2
10S 31W 26AAA 01	aJ64	QA,TO	2891.	31	11	5.0	11.3	11.4	12.2	12.0	12.1	12.5	12.6
10S 31W 29AAB 01	aJ64	TO	2997.	190	82	82.0	91.3	91.3	91.3	91.6	92.5	91.6	91.6
10S 32W 11BAA 01	aJ65	TO	3072.	171	110	105.0	118.8	117.0	120.1	120.7	120.2	120.5	121.2
10S 32W 29DCB 01	aJ64	TO	3064.	184	78	80.0	95.5	97.6	98.4	96.4	96.9	97.0	97.1
10S 33W 03DBC 01	aJ64	TO	3145.	254	120	127.0	148.1		152.6	152.5		153.6	
10S 33W 06BBC 01	aJ71	TO	3191.	315	136			173.2	172.6	177.4	171.4	175.1	178.5
10S 33W 19CBD 01	aJ64	TO	3161.	166	100	99.0	106.1	104.7	106.2	106.2	105.9	106.0	106.1
10S 34W 12BCD 01	aJ64	TO	3220.	297	157	169.0	178.6	171.3	169.3	171.4		172.4	172.5
10S 34W 29BBC 01	aJ84		3208.					88.9	91.6	88.8		89.2	88.6
10S 35W 09ABB 01	aJ84		3290.					112.8	113.1	113.4	112.7	113.0	113.2
10S 36W 16CCC 01	aJ84		3366.					128.8	128.7	130.2	130.5	131.4	132.2
10S 36W 36ACC 01	aJ66	TO	3359.	199	164	169.0	172.4	175.8		171.7			

TABLE 2. -- DERIVED HYDROLOGIC DATA, THOMAS COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1950-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1950	Saturated thickness (feet) 1990	Percentage change saturated thickness 1950-90
06S 31W 03ADB 01	TO	115.6	-7	-.6	.9	-.2		83	76	-8
06S 31W 33CCD 01	QA,TO	34.5	-17	-24.5	-1.3	-.4	-1.0	113	97	-14
06S 32W 12CBC 01	TO	123.2	-8	-9.2	-6.0	-.2	-.4	95	87	-8
06S 32W 29CDC 01	TO	126.2	-13	-15.2	-.6	-.3	-.6	91	78	-14
06S 33W 07BBB 01	TO	141.3	-4		-1.5	-.1		97	93	-4
06S 33W 23DDD 01	QA	16.0	-7		-2.2	-.2		72	65	-10
06S 34W 01DDD 01	TO	144.9			-1.3					
06S 34W 11CDD 01	TO	163.1	-5	-7.1	-1.7	-.1	-.3	95	90	-5
06S 34W 17CBC 01	TO	160.9	-10	-9.9	-1.9	-.3	-.4	107	97	-9
06S 34W 22DCA 01		131.4			-1.3					
06S 34W 31CDB 01		134.6			-1.3					
06S 35W 02CDD 01	TO	129.3	-12	-2.3	1.0	-.3	-.1	133	121	-9
06S 35W 26ACB 01	TO	159.5	-9	-9.5	-2.0	-.2	-.4	104	96	-8
06S 36W 06BCD 01	TO	189.7	-16	-11.7	-.1	-.4	-.5	149	133	-11
06S 36W 11ACC 01	TO	170.7	-3	-9.7	-2.2	-.1	-.4	112	109	-3
06S 36W 30DCB 01	TO	156.9	-5	-9.9	-.2	-.1	-.4	155	150	-3
06S 36W 34DDB 01	TO	103.6	-5	-9.6	.0	-.1	-.4	147	142	-3
07S 31W 01DCA 01	TO									
07S 32W 07ACA 01	TO	81.5	-14	-17.5	-.7	-.4	-.7	78	65	-17
07S 32W 13AAA 01	TO									
07S 32W 33BCB 01		120.7			-2.2					
07S 33W 07BDA 01	TO	155.8	-15	-6.8	-.3	-.4	-.3	113	98	-13
07S 33W 35ADD 01	TO	160.8	-30	-29.8		-.8	-1.2	121	91	-25
07S 34W 25AAA 01	TO	115.0	-9	-9.0	-2.5	-.2	-.4	134	125	-7
07S 34W 26DBD 01	TO	113.9	-10	-9.9	-.1	-.3	-.4	126	116	-8
07S 35W 09CCC 01	TO	132.6	-9		-1.1	-.2		141	132	-6
07S 36W 17CCC 01	TO	150.5	-12	-16.5	-2.8	-.3	-.7	128	117	-9
07S 36W 35CBB 01	TO									
08S 31W 03CDD 01	TO	144.1	-34		-3.1	-.9				
08S 31W 20CDD 01	TO	125.9	-28	-24.9	-2.1	-.7	-1.0	122	94	-23
08S 32W 07BAA 01	TO	133.3	-35	-34.3	2.9	-.9	-1.4	174	139	-20
08S 32W 12DBC 01	TO	123.9	-14	-15.9	-2.3	-.4	-.7	107	93	-13
08S 32W 27DAB 01	TO	127.2	-15	-17.2	-1.2	-.4	-.7	116	101	-13
*08S 33W 34BBC 01	TO	159.4	-29	-29.4	-1.6	-.7	-1.2	67	38	-43
08S 34W 01BAC 01	TO	128.7	-16	-12.7	-1.1	-.4	-.5	157	141	-10
*08S 34W 06CBC 01	TO	140.0	-10	-5.0	13.6	-.3	-.2	97	87	-10
08S 34W 23CBD 01	TO	184.6	-23	-29.6	-2.2	-.6	-1.2	73	50	-32
08S 34W 29CCC 01		211.4			-2.3					
08S 35W 04CCC 01		95.2			-.2					
08S 36W 15CBB 01		87.0			-.7					
*08S 36W 18ABA 02	TO	131.9	-12		.8	-.3				
08S 36W 31BCD 01		46.7								
09S 31W 10BBB 01	TO	95.3	-10	-12.3	-2.9	-.3	-.5	92	82	-11
09S 31W 17CCC 01		92.8			-1.8					
09S 31W 36AAB 01	TO	147.0	-17	-16.0		-.4	-.7	79	62	-22

TABLE 2, con't. – DERIVED HYDROLOGIC DATA, THOMAS COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
09S 32W 03AAA 01		101.7			-.6					
09S 32W 27BCD 01	TO	125.1	-28	-27.1	-.8	-.7	-1.1	110	82	-25
09S 33W 35AAD 01	TO	162.8	-38	-33.8	-3.0	-.9	-1.4	125	87	-30
09S 34W 11CCC 01		128.5			-2.6					
09S 34W 12ADA 01	TO	167.8	-34		-3.2	-.9		135	101	-25
09S 34W 17ABA 01		158.7			-1.5					
09S 35W 32DAA 01	TO	205.2	-23	-17.2	-3.6	-.6	-.7	53	30	-43
10S 31W 26AAA 01	QA,TO	12.6	-2	-7.6	-.1	-.1	-.3	20	18	-10
10S 31W 29AAB 01	TO	91.6	-10	-9.6	.0	-.3	-.4	108	98	-9
10S 32W 11BAA 01	TO	121.2	-11	-16.2	-.7	-.3	-.7	61	50	-18
10S 32W 29DCB 01	TO	97.1	-19	-17.1	-.1	-.5	-.7	106	87	-18
10S 33W 03DBC 01	TO									
*10S 33W 06BBC 01	TO	178.5	-43		-3.4	-1.1		179	137	-23
10S 33W 19CBD 01	TO	106.1	-6	-7.1	-.1	-.1	-.3	66	60	-9
10S 34W 12BCD 01	TO	172.5	-16	-3.5	-.1	-.4	-.1	140	125	-11
10S 34W 29BBC 01		88.6			.6					
10S 35W 09ABB 01		113.2			-.2					
10S 36W 16CCC 01		132.2			-.8					
10S 36W 36ACC 01	TO									

Trego County

TABLE 1. -- SELECTED HYDROLOGIC DATA, TREGO COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
*12S 23W 20CCC 01	qM60		2373.				21.2	22.0	19.6	18.6	17.6	19.9	20.5

TABLE 2. -- DERIVED HYDROLOGIC DATA, TREGO COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-90	1966-90	1989-90	1950-90	1966-90	1950	1990	1950-90
*12S 23W 20CCC 01		20.5			-.6					

Wabaunsee County

TABLE 1. -- SELECTED HYDROLOGIC DATA, WABAUNSEE COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
10S 10E 15DCC 01	qM66		971.			15.5	13.1	13.7	12.8	10.9	13.9	16.9	15.1
10S 12E 29ADD 01	qM74		944.				16.5	16.1	16.1	14.0	18.0	21.2	17.8

TABLE 2. -- DERIVED HYDROLOGIC DATA, WABAUNSEE COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
10S 10E 15DCC 01		15.1		.4	1.8					
10S 12E 29ADD 01		17.8			3.4					

Wallace County

TABLE 1. -- SELECTED HYDROLOGIC DATA, WALLACE COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
11S 38W 35CCC 02	aJ66	TO	3372.	189	81	76.0	136.3	127.6	124.9	126.2	127.8	125.2	120.3
11S 42W 08DDC 01	aJ69	TO	3953.	98	98		108.3	109.7	109.9	110.3	109.0	107.4	108.9
11S 42W 10AAD 01	aJ70	TO	3948.					130.1	128.6	130.0	130.7	130.8	134.1
13S 39W 33BBB 01	qJ70	TO	3322.				25.9	25.8	26.3	26.0	25.8	26.7	27.2
13S 43W 36ABB 01	aJ57	TO	3894.	270	149	149.0	180.7	180.0	182.2	183.0		186.0	189.4
14S 38W 21DCC 01	aJ51	TO	3538.	94	82	80.1	82.1	82.1	82.2	82.5	82.3	82.7	82.5
14S 39W 28CAA 01	aJ88	TO	3602.									157.4	155.0
14S 40W 23ADD 01	aJ58	TO	3645.	220	118	124.5	156.6	156.1	157.1	156.0	157.4	157.7	
14S 40W 29ABA 01	aJ69	TO	3702.	230	137		172.2	171.8	174.7	174.0	175.3	178.0	185.3
14S 41W 18DCB 01	aJ77	TO	3778.	387	106		155.2					173.5	169.5
14S 41W 22BBC 01	aJ58	TO	3729.	218	84	86.1	124.1	125.8	124.9	128.2	130.1	133.1	138.4
14S 42W 10BAA 01	aJ69	TO	3838.	403	133		181.3	182.1	177.2	186.1	187.3	189.6	193.9
14S 42W 14DBD 01	aJ58	TO	3796.	400	101	117.4	151.6	151.5	152.1	154.1	159.7		
14S 42W 30BCA 01	aJ69	TO	3880.	386	155	159.6		195.2	193.6	197.5	199.8	202.5	
15S 38W 05CCB 01	aJ77	TO	3531.	144	76		104.8	103.4	103.9	104.3			106.1
15S 38W 14CCD 01	aJ58	TO	3486.	150	70	81.1	104.5	103.2	105.5	107.2	104.6	105.2	105.8
15S 38W 21CCC 01	aJ88		3510.									147.8	149.9
15S 38W 28DBB 01	aJ60	TO	3502.	202	82	106.3	148.2	148.1	145.8	148.0	148.9		
15S 38W 36CBB 01	aJ58	TO	3461.	153	76	80.8	121.9	121.4	121.4	122.9		124.9	126.6
15S 39W 02BCA 01	aJ58	TO	3585.	195	109	125.0	152.5	152.6	152.8	151.2	153.3	153.1	154.6
15S 39W 06CBC 01	aJ65	TO	3631.	223	106	118.8	146.3	146.7	146.1	153.3		157.8	159.4
15S 39W 08ACC 01	qJ48	TO	3623.	222	113	129.9	159.8	160.3	162.6	160.8	163.0	163.7	165.5
15S 39W 26ACC 01	aJ60	TO	3561.	239	90	111.5	154.2	152.1	159.5	153.8	157.3	157.7	161.8
15S 40W 03BAB 01	qJ57	TO	3636.	254	86	85.0	119.8	122.8	124.3	124.3	126.2	128.6	130.6
15S 40W 09DCB 01	aJ67	TO	3653.	261	85	90.8	128.7	129.2	130.3	131.8	133.3	135.4	137.1
15S 40W 26CAB 01	aJ69	TO	3646.	245	100	102.0		130.0	134.1	137.3	137.7	141.3	143.8
15S 41W 02AAA 01	aJ88	TO	3766.									212.3	218.1
15S 41W 05ACB 01	aJ58	TO	3794.	235	136	147.2	190.5	190.0	204.7	207.9	193.1	201.0	207.7
15S 41W 10BAB 01	aJ58	TO	3787.	264	157	163.7	200.7	202.2	212.1	204.1	206.9		
15S 41W 27CBC 01	aJ69	TO	3750.	230	145		191.8	186.9	189.0	191.5	192.4	195.5	197.1
15S 41W 36DDB 02	aJ66	TO	3695.	265	104	113.1		144.9	145.2	146.4	148.3	147.1	151.0
15S 42W 02BBB 01	aJ69	TO	3854.	225	159	166.9	205.7	208.1	212.3	203.2	204.0	204.6	205.0
15S 42W 32BDA 01	aJ69	TO	3901.	271	216	233.9	239.3	246.2		247.9	245.2		247.6
15S 42W 36CDC 01	aJ51	TO	3844.	270	194	214.1	243.3	241.7		245.3		248.9	248.7

TABLE 2. – DERIVED HYDROLOGIC DATA, WALLACE COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
11S 38W 35CCC 02	TO	120.3	-39	-44.3	4.9	-1.0	-1.8	108	69	-36
11S 42W 08DDC 01	TO	108.9	-11		-1.5	-.3			-11	
11S 42W 10AAD 01	TO	134.1			-3.3					
13S 39W 33BBB 01	TO	27.2			-.5					
13S 43W 36ABB 01	TO	189.4	-40	-40.4	-3.4	-1.0	-1.7	121	81	-33
14S 38W 21DCC 01	TO	82.5	-1	-2.4	.2		-.1	12	12	0
14S 39W 28CAA 01	TO	155.0			2.4					
14S 40W 23ADD 01	TO									
14S 40W 29ABA 01	TO	185.3	-48		-7.3	-1.2		93	45	-52
14S 41W 18DCB 01	TO	169.5	-64		4.0	-1.6		281	218	-22
14S 41W 22BBC 01	TO	138.4	-54	-52.3	-5.3	-1.4	-2.2	134	80	-40
14S 42W 10BAA 01	TO	193.9	-61		-4.3	-1.5		270	209	-23
14S 42W 14DBD 01	TO									
14S 42W 30BCA 01	TO									
15S 38W 05CCB 01	TO	106.1	-30			-.8		68	38	-44
15S 38W 14CCD 01	TO	105.8	-36	-24.7	-.6	-.9	-1.0	80	44	-45
15S 38W 21CCC 01		149.9			-2.1					
15S 38W 28DBB 01	TO									
15S 38W 36CBB 01	TO	126.6	-51	-45.8	-1.7	-1.3	-1.9	77	26	-66
15S 39W 02BCA 01	TO	154.6	-46	-29.6	-1.5	-1.1	-1.2	86	40	-53
15S 39W 06CBC 01	TO	159.4	-53	-40.6	-1.6	-1.3	-1.7	117	64	-45
15S 39W 08ACC 01	TO	165.5	-53	-35.6	-1.8	-1.3	-1.5	109	57	-48
15S 39W 26ACC 01	TO	161.8	-72	-50.3	-4.1	-1.8	-2.1	149	77	-48
15S 40W 03BAB 01	TO	130.6	-45	-45.6	-2.0	-1.1	-1.9	168	123	-27
15S 40W 09DCB 01	TO	137.1	-52	-46.3	-1.7	-1.3	-1.9	176	124	-30
15S 40W 26CAB 01	TO	143.8	-44	-41.8	-2.5	-1.1	-1.7	145	101	-30
15S 41W 02AAA 01	TO	218.1			-5.8					
15S 41W 05ACB 01	TO	207.7	-72	-60.5	-6.7	-1.8	-2.5	99	27	-73
15S 41W 10BAB 01	TO									
15S 41W 27CBC 01	TO	197.1	-52		-1.6	-1.3		85	33	-61
15S 41W 36DDB 02	TO	151.0	-47	-37.9	-3.9	-1.2	-1.6	161	114	-29
15S 42W 02BBB 01	TO	205.0	-46	-38.1	-.4	-1.1	-1.6	66	20	-70
15S 42W 32BDA 01	TO	247.6	-32	-13.7		-.8	-.6	55	23	-58
15S 42W 36CDC 01	TO	248.7	-55	-34.6	.2	-1.4	-1.4	76	21	-72

Washington County

TABLE 1. -- SELECTED HYDROLOGIC DATA, WASHINGTON COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
01S 05E 05ADA 01	qM79		1370.				41.4	39.6	36.9	33.2	34.6	37.7	
04S 02E 14CCC 01	qM79		1485.				47.4	47.1	46.1	45.6	43.1	43.6	
05S 01E 20ADA 01	qM77		1325.				44.2	44.1	42.9	39.0	37.7		
05S 01E 31DDD 01	qM75		1278.				16.8	17.1	16.9	14.7	16.2	18.2	

TABLE 2. -- DERIVED HYDROLOGIC DATA, WASHINGTON COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet)			Average annual water-level change (feet/year)		Saturated thickness (feet)		Percentage change saturated thickness
			1950-90	1966-90	1989-90	1950-90	1966-90	1950	1990	1950-90
01S 05E 05ADA 01										
04S 02E 14CCC 01										
05S 01E 20ADA 01										
05S 01E 31DDD 01										

Wichita County

TABLE 1. -- SELECTED HYDROLOGIC DATA, WICHITA COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
16S 35W 06AAB 01	aJ48	TO	3208.	118	71	81.5		83.0	82.8	83.2	84.7	83.4	84.0
16S 35W 13CCC 01	aJ65	TO	3182.	170	118	126.6	157.7	157.7	157.7	158.8	159.2	160.0	159.9
16S 35W 20CCC 01	aJ50	TO	3228.	189	103	124.6	155.8	156.0	155.2	160.3	162.4		159.5
16S 36W 03DCC 01	aJ47	TO	3267.	138	87			133.8	132.2	131.6		131.3	136.6
16S 36W 07BCB 01	aJ48	TO	3319.	140	80	91.8	114.8	115.6	115.2	117.4	120.6	119.4	119.9
16S 36W 21CCC 01	au68	TO	3295.	205	84	99.9	150.5	149.8	151.7	151.6		154.5	154.8
16S 36W 30CBC 01	aJ56	TO	3319.	218	87	109.3		158.6	155.9	154.5	165.2	153.1	153.7
16S 36W 34CCC 02	aJ85	TO	3275.					137.8	138.3	137.9	140.1	141.1	142.3
16S 36W 36CBC 01	aJ64	TO	3246.	200	91	105.4	133.9	133.9	134.3	135.1		136.7	
16S 37W 17BBB 01	aJ66	TO	3399.	194	86	101.0	144.4	145.0	144.0	145.9	146.0	147.7	148.9
16S 37W 30BAB 01	aJ85	TO	3404.					154.4	156.3	155.3	154.8	156.6	158.2
16S 38W 10ABB 01	aJ51	TO	3458.	208	83	96.3	145.0	144.8	143.5	146.4	147.9	150.7	155.4
16S 38W 26BBB 01	aJ61	TO	3424.	197	75	112.0	138.6	139.8	140.6	141.2	142.0	144.1	143.9
17S 35W 02BBB 01	aJ70	TO	3189.	189	109		151.0	151.9	152.3	153.3	163.0	157.0	
17S 35W 15CDC 01	au65	TO	3194.	204	98	110.0	133.7	133.5	133.9	135.2		136.6	138.0
17S 35W 18ACB 01	aJ51	TO	3226.	195	97	110.8	144.7	144.7	144.7	146.0	161.0	147.7	
17S 35W 27CCC 01	aJ55	TO	3195.	210	91	109.6	146.4	145.1	143.6	144.5	145.9	151.2	155.7
17S 35W 30CBB 01	aJ51	TO	3235.	218	94	126.6	162.6	163.1	160.2	163.6	166.8	169.1	167.6
17S 36W 10CBB 01	au71	QA,TO	3202.	97	29		57.8	59.6	60.0	61.0		62.9	66.8
17S 36W 23BCC 01	au40	TO	3258.	228	100	125.3	162.5	156.3	155.3	156.8		160.6	
17S 36W 33BCB 01	uJ65	TO	3286.	208	98	113.3	143.0	145.0	145.0	145.9	147.0	147.2	148.1
17S 37W 08BAA 01	aJ51	TO	3374.	196	84	101.2	134.8	132.3	133.4	134.1	135.5	137.1	137.9
17S 37W 13CDD 01	aJ72	TO	3300.	175	70		106.2	107.7	107.7	110.8	115.1	117.3	114.5
17S 37W 28CCC 01	aJ64	TO	3360.	190	85	98.4	133.9	138.1	137.0	138.2	144.4	142.0	144.0
17S 38W 21BBB 01	aJ64	TO	3446.	165	100	100.3	127.6		126.4	129.5	127.7		126.2
17S 38W 24ACC 01	au51	TO	3394.	210	86	104.5	131.6	131.4	132.7	132.3			138.2
17S 38W 28CCC 01	aJ67	TO	3446.	190	105	113.6		144.9	144.8		146.2	146.5	
18S 35W 08BBC 02	aJ70	TO	3217.	186	82		143.0	133.6	134.7	137.0	135.8	136.2	137.9
18S 35W 14DCD 01	aJ51	TO	3171.	137	80	91.1	115.2	119.3	114.0	115.8	116.2		116.8
18S 35W 31DDD 01	aJ72	TO	3210.						95.4				
18S 36W 15DAD 01	aJ70	TO	3235.	165	60		88.4	88.8	87.6	88.3			
18S 37W 01BBB 01	aJ65	TO	3315.	174	80	108.4	139.9	138.9	138.3	139.7	140.5	144.3	147.1
18S 37W 21BBB 01	aJ62	TO	3360.	175	85	113.6	163.5	158.3	161.7	158.1	158.7	158.3	162.9
18S 37W 36ABB 01	aJ67	TO	3301.	155	76	89.3	108.8	108.4	108.3	108.8	109.3		
18S 38W 02BCC 01	aJ65	TO	3414.	199	95	115.7	160.9	152.3	153.0	151.4	154.7	154.5	159.3
18S 38W 08BBD 01	au70	TO	3432.	182	82		130.2	128.6	129.2	132.4		129.9	130.7
18S 38W 12BCC 01	aJ65	TO	3401.	202	91	117.4	164.7		161.9	160.0			
18S 38W 20ACC 02	aJ51	TO	3440.	169	90	108.7	130.7	131.4	130.7	130.3	130.2	130.2	131.9
18S 38W 23BAB 01	aJ71	QA,TO	3340.	108	23		53.5	25.8	40.2	25.7	42.3	43.4	42.5
18S 38W 31DBC 01	aJ48	TO	3450.	148	109	108.7	125.4	125.5	121.2	121.0	120.4	120.0	118.9
18S 38W 36DDD 01	aJ51	TO	3374.	129	78	82.4	83.1	83.7	83.8	84.1	84.3	87.3	84.7
19S 35W 01AAA 01	aJ67	TO	3165.	134	83	100.2	115.0	116.0	115.4	115.5	115.5		
19S 35W 08BBB 01	aJ77	TO	3217.	135	85		95.9	95.9	96.0	96.9	98.2	103.1	100.0
19S 36W 15BAA 01	aJ69	TO	3236.	112	71		78.6	78.9	78.8	79.1	79.8	79.9	80.5
19S 37W 22AAB 01	aJ69	TO	3330.	138	98		101.8	101.0	100.6	100.4	100.2	99.8	

TABLE 1, con't. -- SELECTED HYDROLOGIC DATA, WICHITA COUNTY

Well number	Data type	Geo-logic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet)								
					1950	1966	1984	1985	1986	1987	1988	1989	1990
19S 37W 28ABB 01	aJ88	TO	3357.									109.8	103.5
19S 38W 26CCB 01	aJ69	TO	3408.	173	96		101.6	102.4		99.0	108.0	98.7	98.2
19S 38W 31CBC 01	aJ69	TO	3463.	205	140		139.1	139.7	139.0	139.2	139.2	139.1	139.5
20S 35W 15BBB 01	aJ81	TO	3129.				68.2	68.0	68.1	68.2	67.9	68.1	67.9
20S 36W 14DAD 01	aJ62	TO	3225.	108	94	94.2	96.8	96.8	98.2	99.3			
20S 37W 29DCC 01	aJ70	TO	3359.	139	98		110.4	110.3	107.4	105.6	106.0	99.7	99.0
20S 38W 17CBD 01	aJ71	TO	3442.	232	135		141.3	141.3	141.1	141.2	140.4	141.2	142.5
20S 38W 33BBA 01	aJ63	TO	3424.	205	126	134.0	140.4	140.6	139.7	139.7	139.9	139.7	139.7

TABLE 2. -- DERIVED HYDROLOGIC DATA, WICHITA COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
16S 35W 06AAB 01	TO	84.0	-13	-2.5	-.6	-.3	-.1	47	34	-28
16S 35W 13CCC 01	TO	159.9	-42	-33.3	.1	-1.1	-1.4	52	10	-81
16S 35W 20CCC 01	TO	159.5	-57	-34.9		-1.4	-1.5	86	30	-65
16S 36W 03DCC 01	TO	136.6	-50		-5.3	-1.3		51	1	-98
16S 36W 07BCB 01	TO	119.9	-40	-28.1	-.5	-1.0	-1.2	60	20	-67
16S 36W 21CCC 01	TO	154.8	-71	-54.9	-.3	-1.8	-2.3	121	50	-59
16S 36W 30CBC 01	TO	153.7	-67	-44.4	-.6	-1.7	-1.8	131	64	-51
16S 36W 34CCC 02	TO	142.3			-1.2					
16S 36W 36CBC 01	TO									
16S 37W 17BBB 01	TO	148.9	-63	-47.9	-1.2	-1.6	-2.0	108	45	-58
16S 37W 30BAB 01	TO	158.2			-1.6					
16S 38W 10ABB 01	TO	155.4	-72	-59.1	-4.7	-1.8	-2.5	125	53	-58
16S 38W 26BBB 01	TO	143.9	-69	-31.9	.2	-1.7	-1.3	122	53	-57
17S 35W 02BBB 01	TO									
17S 35W 15CDC 01	TO	138.0	-40	-28.0	-1.4	-1.0	-1.2	106	66	-38
17S 35W 18ACB 01	TO									
17S 35W 27CCC 01	TO	155.7	-65	-46.1	-4.5	-1.6	-1.9	119	54	-55
17S 35W 30CBB 01	TO	167.6	-74	-41.0	1.5	-1.9	-1.7	124	50	-60
17S 36W 10CBB 01	QA,TO	66.8	-38		-3.9	-.9		68	30	-56
17S 36W 23BCC 01	TO									
17S 36W 33BCB 01	TO	148.1	-50	-34.8	-.9	-1.3	-1.4	110	60	-45
17S 37W 08BAA 01	TO	137.9	-54	-36.7	-.8	-1.4	-1.5	112	58	-48
17S 37W 13CDD 01	TO	114.5	-45		2.8	-1.1		105	61	-42
17S 37W 28CCC 01	TO	144.0	-59	-45.6	-2.0	-1.5	-1.9	105	46	-56
17S 38W 21BBB 01	TO	126.2	-26	-25.9		-.6	-1.1	65	39	-40
17S 38W 24ACC 01	TO	138.2	-52	-33.7		-1.3	-1.4	124	72	-42
17S 38W 28CCC 01	TO									
18S 35W 08BBC 02	TO	137.9	-56		-1.7	-1.4		104	48	-54
18S 35W 14DCD 01	TO	116.8	-37	-25.7		-.9	-1.1	57	20	-65
18S 35W 31DDD 01	TO									
18S 36W 15DAD 01	TO									
18S 37W 01BBB 01	TO	147.1	-67	-38.7	-2.8	-1.7	-1.6	94	27	-71
18S 37W 21BBB 01	TO	162.9	-78	-49.3	-4.6	-1.9	-2.1	90	12	-87
18S 37W 36ABB 01	TO									
18S 38W 02BCC 01	TO	159.3	-64	-43.6	-4.8	-1.6	-1.8	104	40	-62
18S 38W 08BBD 01	TO	130.7	-49		-.8	-1.2		100	51	-49
18S 38W 12BCC 01	TO									
18S 38W 20ACC 02	TO	131.9	-42	-23.2	-1.7	-1.1	-1.0	79	37	-53
18S 38W 23BAB 01	QA,TO	42.5	-20		.9	-.5		85	66	-22
18S 38W 31DBC 01	TO	118.9	-10	-10.2	1.1	-.3	-.4	39	29	-26
18S 38W 36DDD 01	TO	84.7	-7	-2.3	2.6	-.2	-.1	51	44	-14
19S 35W 01AAA 01	TO									
19S 35W 08BBB 01	TO	100.0	-15		3.1	-.4		50	35	-30
19S 36W 15BAA 01	TO	80.5	-10		-.6	-.3		41	32	-22
19S 37W 22AAB 01	TO									

TABLE 2 con't. -- DERIVED HYDROLOGIC DATA, WICHITA COUNTY

Well Number	Geo-logic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	Water-level change (feet) 1966-90	Water-level change (feet) 1989-90	Average annual water-level change (feet/year) 1950-90	Average annual water-level change (feet/year) 1966-90	Saturated thickness (feet) 1950	Saturated thickness (feet) 1990	Percentage change saturated thickness 1950-90
19S 37W 28ABB 01	TO	103.5			6.3					
19S 38W 26CCB 01	TO	98.2	-2		.5	-.1		77	75	-3
19S 38W 31CBC 01	TO	139.5	1		-.4			65	66	2
20S 35W 15BBB 01	TO	67.9			.2					
20S 36W 14DAD 01	TO									
20S 37W 29DCC 01	TO	99.0	-1		.7			41	40	-2
20S 38W 17CBD 01	TO	142.5	-8		-1.3	-.2		97	90	-7
20S 38W 33BBA 01	TO	139.7	-14	-5.7	.0	-.4	-.2	79	65	-18

Wyandotte County

TABLE 1. -- SELECTED HYDROLOGIC DATA, WYANDOTTE COUNTY

Well number	Data type	Geologic unit	Land surface altitude (feet)	Depth to bedrock (feet)	Depth to Water by year (feet) 1950	1966	1984	1985	1986	1987	1988	1989	1990
11S 24E 14BDA 01	qM67		754.				28.5	28.9	28.5	27.6	28.2	31.0	

TABLE 2. -- DERIVED HYDROLOGIC DATA, WYANDOTTE COUNTY

Well Number	Geologic Unit	Depth to Water (feet) 1990	Water-level change (feet) 1950-90	1966-90	1989-90	Average annual water-level change (feet/year) 1950-90	1966-90	Saturated thickness (feet) 1950	1990	Percentage change saturated thickness 1950-90
11S 24E 14BDA 01										