As the number of streams on which streamflow information is likely to be desired far exceeds the number of streamflow-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than streamflow-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or high-flow analyses, depending on the type of data collected.

High-flow stations

The following table contains annual maximum discharges for high-flow stations. A high-flow gage is a device that will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby complete-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lesser floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at high-flow stations

Station name and number (fig. 3)	Locationa nd drainage area	Period of record	Water year 2004 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			Wolf River Basin					
Buttermilk Creek near Willis, KS (06815700)	Lat 39°45'16", long 95°27'02", in SW 1/4 SW1/4 sec.30, T.3 S., R.18 E, Brown County, Hydrologic Unit 10240005, at downstream side of county highway bridge, 3.6 mi northeast of Willis. Published as "South Branch Wolf Creek tributary" 1957-60, as "South Fork Wolf River tributary" 1961. Drainage area is 3.74 mi^2.	1957-04	6-15-04	12.38	576	6-08-84	20.18	6,000
			Independence Creek Basin					
White Clay Creek at Atchison, KS (06818260)	Lat 39°33'33", long 95°07'38", in SW 1/4 NE1/4 sec.1, T.6 S., R.20 E., Atchison County, Hydrologic Unit 10240011, on right bank at center of highway bridge, on 10th Street in Atchison, and 0.15 mi downstream from Brewery Creek. Drainage area is 13.1 mi^2.	1972-04	7-12-04	8.44	140	6-08-82	16.07	5,410
			Kansas River Basin					
Long Branch Draw near Norcatur, KS (06845100)	Lat 39°54'06", long 100°10'43", in SW 1/4 SW1/4 sec.6, T.2 S., R.25 W., Decatur-Norton County line, Hydrologic Unit 10250011, on downstream side of county highway bridge, 4.7 mi north of Norcatur. Drainage area is 31.7 mi^2.	1957-04	9-22-04	14.97	+	6-15-57	26.40	2,680
Prairie Dog Creek tributary at Colby, KS (06847600)	Lat 39°23'28", long 101°02'43", in SW1/4 NW1/4 NE1/4 sec.6, T.8 S., R.33 W., Thomas County, Hydrologic Unit 10250015, at downstream side of bridge on Franklin Avenue in Colby. Prior to Mar. 31, 1971, at site 0.3 mi upstream at same datum. Drainage area is 7.53 mi^2.	1957-04	7-22-04	10.90	60	6-18-75	27.44	4,300

+ Not determined.

Annual maximum discharge at high-flow stations

Station name and number (fig. 3)	Locationa nd drainage area	Period of record	Water year 2004 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			Kansas River Basin--Continued					
Elk Creek at Clyde, KS (06856320)	Lat 39°35'28", long 97°23'26", in NW 1/4 SE1/4 sec.26, T.5 S., R.1 W., Republic County, Hydrologic Unit 10250017, at downstream side of State Highway 9 bridge, 1.2 mi up stream from mouth. Drainage area is 73.4 mi^2.	1970-04	2004	+	<606	9-26-73 7-23-93	15.30 18.47b	6,000
Big Creek tributary near Ogallah, KS (06863400)	Lat 38°56'00", long 99°44'33", in NW 1/4 SW1/4 sec.11, T.13 S., R.22 W., Trego County, Hydrologic Unit 110260007, at downstream side of bridge on State Highway 147, 4.0 mi southwest of Ogallah. Drainage area is 4.81 mi^2.	1957-04	7-01-04	11.94	+	3-24-87	15.20	4,100
Big Creek tributary near Hays, KS (06863700)	Lat 38°51'08", long 99°14'48", in SE 1/4 NE1/4 sec.7, T.14 S., R.17 W., Ellis County, Hydrologic Unit 10260007, at downstream side of culvert on old U.S. Highway 40 at Toulon, 4.7 mi southeast of Hays. Drainage area is 6.19 mi^2.	1957-04	7-28-04	12.32	425	5-29-59	13.10	1,100
Smoky Hill River tributary at Dorrance, KS (06864300)	Lat 38°50'52", long 98°35'44", in NE 1/4 SE1/4 sec.12, T.14 S., R.12 W., Russell County, Hydrologic Unit 10260006, at downstream end of culvert on old U.S. Highway 40 at Dorrance. Drainage area is 5.39 mi^2.	1957-04	7-07-04	11.90	116	9-03-75	14.62	2,400
Coon Creek tributary near Luray, KS (06868300)	Lat 39°10'30", long 98°42'02" in NW 1/4 NE1/4 sec.19, T.10 S., R.12 W., Osborne County, Hydrologic Unit 10260010, at downstream side of county highway bridge, 4.4 mi southwest of Luray. Drainage area is 6.53 mi^2.	1957-04	7-01-04	20.02	1,700	7-02-82	21.13	4,210
Ash Creek tributary near Stockton, KS (06873300)	Lat 39°26'15", long 99°22'16 " in SE 1/4 SW1/4 sec.18, T.7 S., R.18 W., Rooks County, Hydrologic Unit 10260014, at upstream end of culvert on old U.S. Highway 24, 5.3 mi west of Stockton. Drainage area is 0.89 mi^2.	1957-04	2004		no peak	5-12-93	15.54	530
Mud Creek at Abilene, KS (06877120)	Lat 38°55'47", long 97°13'39", in NE 1/4 NE1/4 sec.17, T.13 S., R.2 E., Dickinson County, Hydrologic Unit 10260008, at downstream side of bridge on old U.S. Highway 40 on north edge of Abilene. Drainage area is 87.0 mi^2.	1970-04	2004	+	<1,790	11-04-98	17.73	15,000

b Backwater, discharge not determined.

+ Not determined.

< Maximum discharge less than value shown.

Annual maximum discharge at high-flow stations

Station name and number (fig. 3)	Locationa nd drainage area	Period of record	Water year 2004 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			Kansas River Basin--Continued					
Mill Creek tributary near Washington, KS (06884300)	Lat 39°48'48", long 97°00'30", in SW 1/4 SW1/4 sec.5, T.3 S., R.4 E., Washington County, Hydrologic Unit 10270207, at downstream end of culvert on U.S. Highway 36, 2.2 mi east of Washington. Drainage area	1957-04	6-14-04	12.58	163	6-18-83	19.90	2,500
Cedar Creek near Manhattan, KS (06887200)	Lat 39°15'31", long 96°33'48", in NE 1/4 NE1/4 sec.19, T.9 S., R.8 E., Pottawatomie County, Hydrologic Unit 10270205, at downstream side of county highway bridge, 5.5 mi north of Manhattan. Drainage area is 13.4 mi^2.	1957-04	7-02-04	19.59	3,900	6-27-99	23.61	12,000
Indian Creek near Topeka, KS (06889550)	Lat 39°07'27", long 95°39'05", in SE 1/4 SE1/4 NE1/4 sec.5, T.11 S., R. 16 E., Shawnee County, Hydrologic Unit 10270102, 3.0 mi north of Topeka, 2.7 mi uptream from Soldier Creek (new channel). Drainage area is 9.72 mi^2.	1970-04	7-06-04	14.42	1,980	7-27-81 6-28-99	17.87 16.73	2,700 3,400
Shunganunga Creek at Topeka, KS (06889630)	Lat 39°01'54 ", long 95°40'57", in SW 1/4 SE1/4 SW1/4 sec.6, T.12 S., R. 16 E., Shawnee County, Hydrologic Unit 10270102, on downstream side of bridge on U.S. Highway 75, 700 ft north of 21st Street in Topeka. Drainage area is 33.5 mi^2.	1970-04	8-23-04	15.88	2,930	7-20-73	15.18 8-23-04	3,300 15.88
Naismith Creek at Lawrence, KS (06891650)	Lat 38°56'03", long 95°15'08", in NE 1/4 NE1/4 SW1/4 sec.12, T.13 S., R. 19 E., Douglas County, Hydrologic Unit 10270104, at downstream side of 27th Street bridge in Lawrence, 6 mi above mouth. Drainage area is 1.54 mi^2.	1974-88, 2003-04	7-24-04	14.97	1,250	6-24-77	15.80	2,500
			Osage River Basin					
South Fork Pottawatomie Creek tributary near Garnett, KS (06914250)	Lat 38°14'00", long 95°14'52", in NW 1/4 SE1/4 sec.7, T.21 S., R.20 E., Anderson County, Hydrologic Unit 10290101, above culvert on U.S. Highway 59, 3.1 mi south of Garnett. Drainage area is 0.35 mi^2.	1963-04	3-05-04	9.99	32.5	6-21-67	14.98	600
Big Bull Creek at Paola, KS (0691500)	Lat 38°34'36", long 94°53'44", in NW 1/4 NE1/4 NW1/4 sec.17, T.17 S., R.23 E., Miami County, Hydrologic Unit 10290102, on downstream side of bridge on county highway (extension of Peoria Street), 0.5 mi west of Paola, and 9.0 mi upstream from mouth. Drainage area is 230 mi^2.	1970-04	3-04-04	12.33	8,360	10-11-73	25.18	39,000

Annual maximum discharge at high-flow stations

Station name and number (fig. 3)	Locationa nd drainage area	Period of record	Water year 2004 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			Osage River Basin--Continued					
Marmaton River tributary near Fort Scott, KS (06917400)	Lat 37°47'26", long 94°47'47", in SE 1/4 SE1/4 SE1/4 sec.8, T.26 S., R. 24 E., Bourbon County, Hydrologic Unit 10290104, at downstream side of county highway bridge, 6.0 mi southwest of Fort Scott. Drainage area is 2.80 mi^2.	1957-04	3-05-04	12.11	530	9-14-98	17.23	2,160
			Arkansas River Basin					
White Woman Creek tributary near Selkirk, KS (07138600)	Lat 38°31'30", long 101°37'16", in SW 1/4 SW1/4 sec.34, T.17 S., R.39 W., Greeley County, Hydrologic Unit 11030002, at downstream side of county highway bridge, 5.6 mi northwest of Selkirk. Drainage area is 38.0 mi^2, of which 7.59 mi^2 is contributing.	1957-04	2004		no peak	7-09-72	13.06	1,000
Arkansas River tributary near Dodge City, KS (07139700)	Lat 37°42'52", long 100°00'53", in SE 1/4 NE1/4 sec.11, T.27 S., R.25 W., Ford County, Hydrologic Unit 11030004, at downstream side of culvert on U.S. Highway 283, 2.6 mi south of Dodge City. Prior to Mar. 1, 1959, above culvert 175 ft north of present site at same datum. Rec- ords for 1957-58 discredited. Drainage area is 8.66 mi^2.	1957-04	7-23-04	12.48	64	9-12-97	16.32	1,730
North Fork Walnut Creek near Ness City, KS (07141350)	Lat 38°28'49", long 99°59'28", in SW 1/4 SW1/4 SW1/4 sec.16, T.18 S., R.24 W., Ness County, Hydrologic Unit 11030007, at downstream side of bridge on Ness County Road 533 and 4.5 mi west and 2 mi north of Ness City. Drainage area is 470 mi^2.	2003-04	6-19-04	14.85	36	6-19-04	14.85	36
Little Cheyenne Creek tributary near Claflin, KS (07143100)	Lat 38°27'25", long 98°32'08", in NE 1/4 SE1/4 sec.28, T.18 S., R.11 W., Barton County, Hydrologic Unit 11030011, at culvert on county highway, 4.7 mi south of Claflin. Published as "Cheyenne Creek tributary" 1957-70. Drainage area is 1.48 mi^2.	1957-04	7-23-04	10.62	67	6-22-81	12.82	570
Gypsum Creek at Oliver Street at Wichita, KS (07144325)	Lat 37°38'49", long 97°16'49", in SE 1/4 NE1/4 NE1/4 sec.2, T.28 S., R.1 E., Sedgwick County, Hydrologic Unit 11030013, at downstream right side of Oliver Street bridge in Wichita. Gage height for 1968-77 and 1983-84 is unreliable and should not be used. Drainage area is 16.4 mi^2.	1968-77 1983-84 2004p	5-13-04	16.00	3,900	5-13-04	16.00	3,900

p Partial water year.

Annual maximum discharge at high-flow stations

Station name and number (fig. 3)	Locationa nd drainage area	Period of record	Water year 2004 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
Arkansas River Basin--Continued								
Dry Creek at Lincoln Street at Wichita, KS (07144330)	Lat 37°40'18", long 97°16'43", in SW 1/4 SW1/4 NW1/4 sec.25, T.27 S., R.1 E., Sedgwick County, Hydrologic Unit 11030013, at downstream right bank 28 ft downstream from Oliver Street bridge in Wichita. Gage height for 1964-77 is unreliable and should not be used. Drainage area is 2.94 mi^2.	1964-77 2004p	5-13-04	29.96	1,300	06-11-70 5-13-04		1,550 29.96
Whitewater River tributary near Towanda, KS(07147020)	Lat 37°51'03", long 97°03'37", in NE 1/4 NE1/4 sec.26, T.25 S., R.3 E., Butler County, Hydrologic Unit 11030017, at culvert on county highway, 5.0 mi northwest of Towanda. Drainage area is 0.17 mi^2.	1963-04	7-25-04	15.12	180	6-09-95	16.59	540
Cedar Creek tributary near Cambridge, KS (07147990)	Lat 37°19'19 ", long 96°37'33", in NE 1/4 NE1/4 SE1/4 sec.26, T.31 S., R.7 E., Cowley County, Hydrologic Unit 11060001, at downstream side of bridge on U.S. Highway 160, 0.5 mi upstream from Cedar Creek, and 2.1 mi northeast of Cambridge. Published as "Grouse Creek tributary" 1961-63. Drainage area is 2.41 mi^2.	1961-04	3-04-04	13.37	961	6-21-77	14.42	3,000
Cimarron River tributary near Satanta, KS (07156700)	Lat 37°16'15", long 100°55'36", in NW 1/4 NE1/4 sec.17, T.32 S., R.33 W., Seward County, Hydrologic Unit 11040006, 27 ft upstream from culvert under county highway, 12.0 mi southeast of Satanta. Prior to 1985, gage was located on the downstream side of culvert. Drainage area is 2.41 mi^2.	1957-04	7-22-04	10.82	+	5-16-03	17.66	2,700
Sandy Creek near Yates Center, KS (07166200)	Lat 37°50'47", long 95°50'07", in NE 1/4 SW1/4 NE1/4 sec.26, T.25 S., R.14 E., Woodson County, Hydrologic Unit 11070101, at downstream side of bridge on U.S. Highway 54, 6.0 mi southwest of Yates Center. Drainage area is 6.80 mi^2.	1957-04	7-09-04	18.53	2,090	7-12-72	19.80	3,000

+ Not determined.

p Partial water year.

HARVEY COUNTY

WELL 24S 02W 16BAA 01 SITE NUMBER 375810097324301

24-2W-16BAA. (886) F. H. HAIBER. DRILLED, UNUSED, WATER-TABLE WELL IN SAND AND GRAVEL OF PLEISTOCENE AGE. DEPTH 57 FEET, DIAMETER 1.25 INCHES. MEASURING POINT, TOP OF PIPE, 0.8 FOOT ABOVE LSD. MEASURED BY CITY OF WICHITA.

ALTITUDE OF LAND SURFACE 1,402.23 FEET

RECORDS AVAILABLE 1939 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.34 FEET BELOW LAND SURFACE DATUM AUG 21, 1939.

LOWEST WATER LEVEL 42.19 FEET BELOW LAND SURFACE DATUM OCT 01, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 2003	24.62	APR 07, 2004	22.08	SEP 29, 2004	24.67		
JAN 05, 2004	22.89	JUL 02, 2004	23.98				

HIGHEST 22.08 APR 07, 2004
LOWEST 24.67 SEP 29, 2004

WELL 24S 02W 28DDD 01 SITE NUMBER 375540097320901

24-2W-28DDD. (M-49) CITY OF WICHITA. DRILLED, WATER-TABLE WELL IN SAND AND GRAVEL OF PLEISTOCENE AGE. DEPTH 246 FEET, DIAMETER 18 INCHES. MEASURING POINT, TOP OF CASING, 1.5 FEET ABOVE LSD. MEASURED BY CITY OF WICHITA.

ALTITUDE OF LAND SURFACE 1,403. FEET

RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 22.48 FEET BELOW LAND SURFACE DATUM JUN 02, 1975.

LOWEST WATER LEVEL 87.01 FEET BELOW LAND SURFACE DATUM OCT 01, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 2003	31.18	JAN 02, 2004	62.76	JUL 01, 2004	29.28		
OCT 30, 2003	32.14	APR 02, 2004	62.55				

HIGHEST 29.28 JUL 01, 2004
LOWEST 32.14 OCT 30, 2003

SEDGWICK COUNTY

WELL 26S 01W 19ABA 01 SITE NUMBER 374659097280201

26-1W-19ABA. (805) CITY OF WICHITA. DRIVEN, WATER-TABLE OBSERVATION WELL IN SAND AND GRAVEL OF PLEISTOCENE AGE. DEPTH 38 FEET, DIAMETER 1.25 INCHES. MEASURING POINT, TOP OF PIPE, 3.3 FEET ABOVE LSD.

ALTITUDE OF LAND SURFACE 1,351.7 FEET

RECORDS AVAILABLE 1938 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.57 FEET BELOW LAND SURFACE DATUM APR 01, 1980.

LOWEST WATER LEVEL 9.89 FEET BELOW LAND SURFACE DATUM SEP 30, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 08, 2003	7.15	JAN 05, 2004	5.81	APR 08, 2004	6.87	JUL 14, 2004	4.60

HIGHEST 4.60 JUL 14, 2004
LOWEST 7.15 OCT 08, 2003

THOMAS COUNTY

WELL 08S 34W 01BAC 01 SITE NUMBER 392329101040201

8-34W-1BA. KS. AGRICULTURAL EXPERIMENT STATION. DRILLED, UNUSED, WATER-TABLE WELL IN OGALLALA FORMATION. DIAMETER 16 INCHES, DEPTH 160 FEET. MEASURING POINT, TOP OF 2-INCH PIPE, 2.72 FEET ABOVE LSD. MEASURED BY GMD 4.

ALTITUDE OF LAND SURFACE 3,177. FEET

RECORDS AVAILABLE 1947 TO CURRENT YEAR.

HIGHEST WATER LEVEL 112.31 FEET BELOW LAND SURFACE DATUM MAY 20, 1954.

LOWEST WATER LEVEL 138.94 FEET BELOW LAND SURFACE DATUM SEP 20, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 2003	137.90	FEB 20, 2004	137.25	MAY 20, 2004	137.92	AUG 20, 2004	138.56
DEC 19, 2003	137.59	MAR 22, 2004	137.18	JUN 21, 2004	137.83	SEP 20, 2004	138.94
JAN 20, 2004	137.37	APR 20, 2004	137.65	JUL 21, 2004	138.21		

HIGHEST 137.18 MAR 22, 2004
LOWEST 138.94 SEP 20, 2004

DOUGLAS COUNTY

390006095132301. Local number 12S 20E 17CCB 01

LOCATION.--Lat 39°00'06", long 95°13'23", Hydrologic Unit 10270104, County Code 045, on east side of county road, 3.6 mi northeast of Lawrence. Owner: U.S. Geological Survey.

AQUIFER.--Unconsolidated aquifer in Newman terrace deposits of Pleistocene age. Aquifer code: 112NWMN.

WELL CHARACTERISTICS.--Drilled observation well, diameter 10 in., depth 50 ft.

INSTRUMENTATION.--Float gage interfaced to a data-collection platform/data logger with a 1-hour update interval.

DATUM.--Datum of gage is NGVD of 1929. Measuring point east side of hole in top of box, elevation 835.81 ft, measuring point is 3.6 ft above land surface.

REMARKS.--Water level fluctuates with Kansas River stage and nearby pumping.

PERIOD OF RECORD.--1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 821.72 ft above NGVD of 1929, July 25, 1993; lowest, 807.64 ft above NGVD of 1929, Aug. 28, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 812.42 ft, Sept. 2; minimum elevation, 807.67 ft, Nov. 2.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	807.79	807.69	807.81	808.13	808.03	808.17	808.64	808.49	809.46	809.83	811.25	812.38
2	807.80	807.67	807.83	808.13	808.02	808.17	808.64	808.51	809.50	809.84	811.26	812.41
3	807.78	807.67	807.84	808.13	808.00	808.17	808.64	e808.52	809.50	809.88	811.26	812.42
4	807.80	807.68	807.86	808.12	808.00	808.18	808.64	e808.53	809.50	809.94	811.25	812.41
5	807.80	807.69	807.86	808.11	808.00	808.30	808.65	e808.55	809.53	809.99	811.22	812.41
6	807.80	807.69	807.87	808.09	808.00	808.31	808.66	e808.56	809.53	810.13	811.20	812.40
7	807.80	807.70	807.89	808.10	807.99	808.32	808.67	e808.58	809.51	810.31	811.19	812.38
8	807.79	807.70	807.90	808.11	807.99	808.36	808.66	808.55	809.48	810.39	811.15	812.39
9	807.78	807.71	807.93	808.09	808.00	808.38	808.66	808.51	809.46	810.45	811.22	812.40
10	807.79	807.73	808.00	808.08	808.00	808.42	808.66	808.48	809.50	810.48	811.26	812.38
11	807.79	807.75	808.03	808.08	808.00	808.43	808.66	808.53	809.55	810.51	811.28	812.37
12	807.79	807.76	808.03	808.08	807.97	808.45	808.66	808.58	809.56	810.53	811.28	812.34
13	807.79	807.75	808.05	808.07	807.97	808.49	808.62	808.61	809.57	810.56	811.27	812.29
14	807.80	807.76	808.05	808.07	807.98	808.50	808.61	808.73	809.59	810.58	811.24	812.28
15	807.80	807.76	808.08	808.07	807.97	808.52	808.61	808.83	809.60	810.58	811.20	812.23
16	807.82	807.74	808.06	808.07	807.97	808.54	808.57	808.87	809.62	810.61	811.20	812.19
17	807.82	807.74	808.06	808.07	807.96	808.55	808.51	808.91	809.62	810.69	811.22	812.18
18	807.82	807.75	808.07	808.07	807.96	808.56	808.49	808.93	809.65	810.74	811.21	812.15
19	807.82	807.75	808.08	808.06	808.02	808.56	808.46	808.98	809.72	810.79	811.16	812.14
20	807.82	807.75	808.10	808.06	808.07	808.57	808.48	809.01	809.73	810.81	811.14	812.14
21	807.81	807.77	808.11	808.06	808.08	808.55	808.49	809.03	809.78	810.83	811.13	812.12
22	807.80	807.77	808.11	808.05	808.11	808.55	808.49	809.05	809.79	810.84	811.14	812.07
23	807.79	807.78	808.11	808.05	808.12	808.58	808.49	809.07	809.81	810.84	811.12	812.04
24	807.79	807.77	808.11	808.06	808.12	808.60	808.49	809.08	809.83	810.87	811.34	811.99
25	807.77	807.79	808.12	808.07	808.13	808.60	808.50	809.16	809.82	811.05	811.60	811.95
26	807.73	807.79	808.12	808.07	808.14	808.60	808.49	809.24	809.82	811.14	811.70	811.90
27	807.72	807.80	808.13	808.04	808.14	808.60	808.50	809.30	809.82	811.19	811.77	811.86
28	807.73	807.80	808.14	808.03	808.15	808.61	808.52	809.35	809.83	811.24	812.02	811.83
29	807.73	807.81	808.14	808.03	808.16	808.61	808.50	809.41	809.82	811.26	812.22	811.79
30	807.73	807.83	808.13	808.03	---	808.62	808.49	809.44	809.81	811.28	812.30	811.78
31	807.70	---	808.13	808.03	---	808.63	---	809.46	---	811.28	812.34	---
MEAN	807.78	807.75	808.02	808.07	808.04	808.47	808.57	808.87	809.64	810.63	811.39	812.19
MAX	807.82	807.83	808.14	808.13	808.16	808.63	808.67	809.46	809.83	811.28	812.34	812.42
MIN	807.70	807.67	807.81	808.03	807.96	808.17	808.46	808.48	809.46	809.83	811.12	811.78

e Estimated

ELLIS COUNTY

384243099202201. Local number 15S 18W 27DDDA01

LOCATION.--Lat 38°42'43", long 99°20'22", Hydrologic Unit 10260006, County Code 051, 1.5 mi east and 2 mi north of Schoenchen. Owner: City of Hays.

AQUIFER.--Smoky Formation. Aquifer code: 211SMKH.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in., depth 49 ft.

INSTRUMENTATION.--Submersible transducer interfaced to a data-collection platform/data logger with a 1-hour update interval.

DATUM.--Datum of gage is NGVD of 1929. Measuring point is top of PVC casing, elevation 1,901.37 ft, measuring point is 4.5 ft above land surface.

REMARKS.--Water level fluctuates with nearby pumping.

PERIOD OF RECORD.--August to September 2004.

EXTREMES FOR CURRENT YEAR.--Maximum elevation during September, 1,889.79 ft, Sept. 30; minimum elevation during September, 1,889.68 ft, Sept. 6.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	1,889.72
2	---	---	---	---	---	---	---	---	---	---	---	1,889.76
3	---	---	---	---	---	---	---	---	---	---	---	1,889.75
4	---	---	---	---	---	---	---	---	---	---	---	1,889.73
5	---	---	---	---	---	---	---	---	---	---	---	1,889.73
6	---	---	---	---	---	---	---	---	---	---	---	1,889.68
7	---	---	---	---	---	---	---	---	---	---	---	1,889.68
8	---	---	---	---	---	---	---	---	---	---	---	1,889.70
9	---	---	---	---	---	---	---	---	---	---	---	1,889.70
10	---	---	---	---	---	---	---	---	---	---	---	1,889.70
11	---	---	---	---	---	---	---	---	---	---	---	1,889.70
12	---	---	---	---	---	---	---	---	---	---	---	1,889.72
13	---	---	---	---	---	---	---	---	---	---	---	1,889.74
14	---	---	---	---	---	---	---	---	---	---	---	1,889.74
15	---	---	---	---	---	---	---	---	---	---	---	1,889.71
16	---	---	---	---	---	---	---	---	---	---	---	1,889.71
17	---	---	---	---	---	---	---	---	---	---	---	1,889.73
18	---	---	---	---	---	---	---	---	---	---	---	1,889.72
19	---	---	---	---	---	---	---	---	---	---	---	1,889.72
20	---	---	---	---	---	---	---	---	---	---	---	1,889.74
21	---	---	---	---	---	---	---	---	---	---	---	1,889.72
22	---	---	---	---	---	---	---	---	---	---	---	1,889.72
23	---	---	---	---	---	---	---	---	---	---	---	1,889.73
24	---	---	---	---	---	---	---	---	---	---	---	1,889.73
25	---	---	---	---	---	---	---	---	---	---	---	1,889.73
26	---	---	---	---	---	---	---	---	---	---	---	1,889.74
27	---	---	---	---	---	---	---	---	---	---	---	1,889.75
28	---	---	---	---	---	---	---	---	---	---	---	1,889.74
29	---	---	---	---	---	---	---	---	---	---	---	1,889.76
30	---	---	---	---	---	---	---	---	---	---	---	1,889.78
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	1,889.73
MAX	---	---	---	---	---	---	---	---	---	---	---	1,889.78
MIN	---	---	---	---	---	---	---	---	---	---	---	1,889.68

ELLIS COUNTY

384253099185201. Local number 15S 18W 27CDBA01

LOCATION.--Lat 38°42'53", long 99°18'52", Hydrologic Unit 10260006, County Code 051, 0.7 mi southeast of Schoenchen. Owner: City of Hays.

AQUIFER.--Smoky Formation. Aquifer code: 211SMKH.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in., depth 56.5 ft.

INSTRUMENTATION.--Submersible transducer interfaced to a data-collection platform/data logger with a 1-hour update interval.

DATUM.--Datum of gage is NGVD of 1929. Measuring point is top of PVC casing, elevation 1,910.88 ft, measuring point is 4.5 ft above land surface.

REMARKS.--Water level fluctuates with nearby pumping.

PERIOD OF RECORD.--August to September 2004.

EXTREMES FOR CURRENT YEAR.--Maximum elevation during September, 1,893.91 ft, Sept. 9; minimum elevation during September, 1,892.22 ft, Sept. 30.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	1,893.36
2	---	---	---	---	---	---	---	---	---	---	---	1,893.51
3	---	---	---	---	---	---	---	---	---	---	---	1,893.61
4	---	---	---	---	---	---	---	---	---	---	---	1,893.69
5	---	---	---	---	---	---	---	---	---	---	---	1,893.76
6	---	---	---	---	---	---	---	---	---	---	---	1,893.80
7	---	---	---	---	---	---	---	---	---	---	---	1,893.84
8	---	---	---	---	---	---	---	---	---	---	---	1,893.89
9	---	---	---	---	---	---	---	---	---	---	---	1,893.91
10	---	---	---	---	---	---	---	---	---	---	---	1,893.90
11	---	---	---	---	---	---	---	---	---	---	---	1,893.90
12	---	---	---	---	---	---	---	---	---	---	---	1,893.89
13	---	---	---	---	---	---	---	---	---	---	---	1,893.90
14	---	---	---	---	---	---	---	---	---	---	---	1,893.88
15	---	---	---	---	---	---	---	---	---	---	---	1,893.85
16	---	---	---	---	---	---	---	---	---	---	---	1,893.85
17	---	---	---	---	---	---	---	---	---	---	---	1,893.85
18	---	---	---	---	---	---	---	---	---	---	---	1,893.70
19	---	---	---	---	---	---	---	---	---	---	---	1,893.56
20	---	---	---	---	---	---	---	---	---	---	---	1,893.44
21	---	---	---	---	---	---	---	---	---	---	---	1,893.32
22	---	---	---	---	---	---	---	---	---	---	---	1,893.21
23	---	---	---	---	---	---	---	---	---	---	---	1,893.13
24	---	---	---	---	---	---	---	---	---	---	---	1,893.07
25	---	---	---	---	---	---	---	---	---	---	---	1,893.00
26	---	---	---	---	---	---	---	---	---	---	---	1,892.61
27	---	---	---	---	---	---	---	---	---	---	---	1,892.47
28	---	---	---	---	---	---	---	---	---	---	---	1,892.36
29	---	---	---	---	---	---	---	---	---	---	---	1,892.30
30	---	---	---	---	---	---	---	---	---	---	---	1,892.25
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	1,893.43
MAX	---	---	---	---	---	---	---	---	---	---	---	1,893.91
MIN	---	---	---	---	---	---	---	---	---	---	---	1,892.25

HARVEY COUNTY

380028097311001. Local number EB-145-A1

LOCATION.-- Lat 38°00'28", long 97°30'52", Hydrologic Unit 11030012, County Code 079, Halstead quadrangle, on the upstream side of the bridge, north of the levee on Halstead Road in Halstead. Owner: Ground-Water Management District # 2.

AQUIFER.--Equus Beds. Aquifer code: 112PLSC

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2 in., depth 50.65 ft, screened 40.6-50.6 ft.

INSTRUMENTATION.--Submersible transducer interfaced to a data-collection platform/data logger with a 1-hour update interval.

DATUM.-- Datum of gage is NGVD of 1929. Measuring point is top of PVC casing, elevation 1,392.87 ft, top of casing is 2.8 ft above land surface.

REMARKS.--Water level fluctuates with river stage and nearby pumping.

PERIOD OF RECORD.--October 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1,382.63 ft above NGVD of 1929, Nov. 4, 1998; lowest, 1,366.10 ft above NGVD of 1929, July 22, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,381.91 ft, Mar. 7; minimum elevation, 1,373.46 ft, Oct. 1.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,373.52	1,374.97	1,374.56	1,374.87	1,375.07	1,375.27	1,376.91	1,376.15	1,375.49	1,376.00	1,377.24	1,375.07
2	1,373.57	1,375.05	1,374.79	1,374.97	1,374.96	1,375.05	1,376.78	1,376.17	1,375.28	1,376.04	1,376.95	1,375.18
3	1,373.68	1,375.08	1,374.81	1,374.85	1,374.91	1,375.20	1,376.73	1,376.15	1,375.17	1,376.43	1,376.54	1,375.12
4	1,373.62	1,374.98	1,374.75	1,374.78	1,375.02	1,375.97	1,376.69	1,376.25	1,375.13	1,376.45	1,376.19	1,375.09
5	1,373.61	1,374.87	1,374.67	1,374.63	1,375.09	1,379.66	1,376.72	1,376.19	1,375.23	e1,376.84	1,375.99	1,375.15
6	1,373.59	1,374.84	1,374.77	1,374.62	1,374.95	1,381.34	1,376.71	1,376.15	e1,375.25	1,376.78	1,376.00	1,375.05
7	1,373.60	1,374.87	1,374.98	1,374.87	1,374.88	1,381.90	1,376.70	1,376.06	1,375.11	1,376.62	1,376.01	1,375.03
8	1,373.59	1,374.87	1,374.97	1,374.90	1,375.08	1,380.83	1,376.56	1,376.03	1,374.99	1,376.61	1,375.87	1,375.05
9	1,376.71	1,374.88	1,374.90	1,374.72	1,374.96	1,379.79	1,376.58	1,376.01	1,374.86	1,376.41	1,375.75	1,375.03
10	1,379.46	1,375.04	1,374.74	1,374.78	1,374.98	1,379.27	1,376.50	1,375.92	1,375.16	e1,376.25	1,375.89	1,374.97
11	1,380.02	1,375.01	1,374.76	1,374.91	1,375.10	1,378.57	1,376.49	1,375.98	e1,375.34	e1,375.91	1,375.99	1,374.98
12	1,378.67	1,374.82	1,374.77	1,374.79	1,374.91	1,378.30	1,376.49	1,375.99	e1,375.31	1,375.78	1,376.08	1,374.94
13	1,377.56	1,374.73	1,374.85	1,374.76	1,375.07	1,378.12	1,376.41	1,376.24	1,375.34	1,375.61	1,376.06	1,374.96
14	1,376.84	1,375.00	1,374.90	1,374.87	1,375.14	1,377.77	1,376.46	1,376.41	e1,375.38	1,375.48	1,375.92	1,374.94
15	1,376.55	1,374.99	1,375.07	1,374.86	1,375.03	1,377.80	1,376.53	1,376.47	e1,375.39	e1,375.22	1,375.88	1,374.89
16	1,376.32	1,374.88	1,374.67	1,374.99	1,375.06	1,377.58	1,376.43	1,376.53	1,375.47	1,375.05	1,375.91	1,374.86
17	1,375.97	1,375.03	1,374.82	1,374.99	1,374.95	1,377.55	1,376.35	1,376.51	1,375.45	1,374.88	1,375.93	1,374.88
18	1,375.93	1,374.87	1,374.72	1,374.96	1,375.12	1,377.28	1,376.37	1,376.45	1,376.18	1,374.67	1,375.84	1,374.83
19	1,375.79	1,374.73	1,374.75	1,374.95	1,375.38	1,377.25	1,376.21	1,376.44	1,376.27	1,374.57	1,375.75	1,374.78
20	1,375.68	1,374.91	1,374.91	1,374.99	1,375.12	1,377.02	1,376.41	1,376.42	1,376.45	1,374.56	1,375.85	1,374.77
21	1,375.54	1,374.87	1,374.97	1,374.97	1,375.10	1,376.90	1,376.34	1,376.39	1,376.74	1,374.35	1,375.82	1,374.76
22	1,375.49	1,374.90	1,374.92	1,374.92	1,375.31	1,376.99	1,376.27	1,376.38	1,376.87	1,374.17	1,375.85	1,374.76
23	1,375.47	1,374.73	1,374.82	1,375.10	1,375.22	1,377.06	1,376.17	1,376.26	e1,376.82	1,375.47	1,375.85	1,374.83
24	1,375.41	1,374.71	1,374.85	1,375.10	1,375.17	1,376.96	1,376.38	e1,376.18	e1,376.67	1,377.23	1,375.81	1,374.81
25	1,375.14	1,374.93	1,374.94	1,375.22	1,375.15	1,376.88	1,376.26	1,376.01	1,376.43	1,378.52	1,375.70	1,374.82
26	1,375.19	1,374.92	1,374.94	1,375.00	1,375.15	1,376.78	1,376.20	1,376.07	1,376.33	1,380.36	1,375.48	1,374.83
27	1,375.30	1,374.64	1,374.98	1,374.88	1,375.19	1,376.85	1,376.28	1,375.83	e1,376.19	1,380.81	1,375.40	1,374.84
28	1,375.21	1,374.62	1,374.86	1,374.95	1,375.16	1,376.81	1,376.39	1,375.74	e1,376.13	1,379.06	1,375.37	1,374.75
29	1,375.29	1,374.90	1,374.81	1,375.02	1,375.39	1,376.83	1,376.27	1,375.89	1,376.22	1,378.28	1,375.37	1,374.81
30	1,375.13	1,374.82	1,374.91	1,375.02	---	1,376.98	1,376.17	1,375.80	1,376.04	1,377.85	1,375.14	1,374.83
31	1,374.89	---	1,374.79	1,375.12	---	1,376.92	---	1,375.63	---	1,377.50	1,374.99	---
MEAN	1,375.56	1,374.88	1,374.84	1,374.91	1,375.09	1,377.66	1,376.46	1,376.15	1,375.76	1,376.44	1,375.88	1,374.92
MAX	1,380.02	1,375.08	1,375.07	1,375.22	1,375.39	1,381.90	1,376.91	1,376.53	1,376.87	1,380.81	1,377.24	1,375.18
MIN	1,373.52	1,374.62	1,374.56	1,374.62	1,374.88	1,375.05	1,376.17	1,375.63	1,374.86	1,374.17	1,374.99	1,374.75

e Estimated

HARVEY COUNTY

380028097311002. Local number EB-145-PD5

LOCATION.--Lat 38°00'28", long 97°31'07", Hydrologic Unit 11030012, County Code 079, Halstead quadrangle, on the upstream side of the bridge, north of the levee on Halstead Road in Halstead. Owner: Ground-Water Management District # 2.

AQUIFER.--Equus Beds. Aquifer code: 112PLSC.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2 in., depth 117.70 ft, screened 112.6-117.7 ft.

INSTRUMENTATION.--Submersible transducer interfaced to a data-collection platform/data logger with a 1-hour update interval.

DATUM.-- Datum of gage is NGVD of 1929. Measuring point is top of PVC casing, elevation 1,392.40 ft, top of casing is 2.00 ft above land surface.

REMARKS.--Water level fluctuates with river stage and nearby pumping.

PERIOD OF RECORD.--February 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1,381.35 ft above NGVD of 1929, Nov. 5, 1998; lowest, 1,356.52 ft above NGVD of 1929, July 22, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,380.66 ft, Mar. 7; minimum elevation, 1,373.06 ft, Oct. 1.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,373.10	1,374.85	1,374.42	1,374.72	1,374.94	1,375.15	e1,376.92	1,376.12	1,375.37	1,375.92	1,377.24	1,374.84
2	1,373.17	1,374.94	1,374.64	1,374.82	1,374.83	1,374.91	1,376.81	1,376.15	1,375.11	1,375.99	1,376.92	1,374.98
3	1,373.30	1,374.96	1,374.68	1,374.72	1,374.76	1,375.05	1,376.74	1,376.11	1,374.97	1,376.13	1,376.24	1,374.93
4	1,373.25	1,374.88	1,374.63	1,374.65	1,374.88	1,375.66	1,376.71	1,376.23	e1,374.94	1,376.13	1,375.83	1,374.91
5	1,373.25	1,374.76	1,374.52	1,374.48	1,374.95	1,378.28	1,376.75	1,376.16	1,375.03	1,376.35	1,375.81	1,374.97
6	1,373.23	1,374.71	1,374.61	1,374.47	1,374.82	1,379.84	1,376.73	1,376.12	1,375.06	1,376.47	1,375.87	1,374.87
7	1,373.23	1,374.75	1,374.83	1,374.71	1,374.74	1,380.54	1,376.72	1,376.03	1,374.92	1,376.44	1,375.88	1,374.84
8	1,373.24	1,374.75	1,374.83	1,374.76	1,374.93	1,380.38	1,376.57	1,376.02	1,374.82	1,376.46	1,375.59	1,374.86
9	1,375.04	1,374.75	1,374.75	1,374.58	1,374.82	1,379.69	1,376.59	1,375.98	1,374.66	1,376.29	1,375.49	1,374.84
10	1,377.19	1,374.92	1,374.59	1,374.63	1,374.83	1,379.32	1,376.52	1,375.92	e1,374.97	e1,376.14	1,375.68	1,374.77
11	1,378.05	1,374.90	1,374.60	1,374.77	1,374.94	1,378.65	1,376.49	1,375.97	1,375.22	1,375.59	1,375.84	1,374.78
12	1,377.70	1,374.72	1,374.62	1,374.65	1,374.76	1,378.41	1,376.50	1,375.96	1,375.19	1,375.61	1,375.94	1,374.74
13	1,377.18	1,374.60	1,374.69	1,374.62	1,374.92	1,378.25	1,376.40	1,376.24	1,375.23	1,375.38	1,375.91	1,374.76
14	1,376.60	1,374.87	1,374.74	1,374.73	1,375.01	1,377.89	1,376.45	1,376.48	e1,375.28	1,375.26	1,375.81	1,374.75
15	1,376.39	1,374.87	1,374.93	1,374.71	1,374.89	1,377.93	1,376.53	1,376.55	e1,375.31	e1,374.80	1,375.79	1,374.70
16	1,376.19	1,374.76	1,374.52	1,374.85	1,374.91	1,377.70	1,376.43	1,376.60	1,375.40	1,374.67	1,375.82	1,374.65
17	1,375.85	1,374.90	1,374.65	1,374.83	1,374.81	1,377.68	1,376.36	1,376.58	1,375.38	1,374.46	1,375.84	1,374.68
18	1,375.85	1,374.76	1,374.56	1,374.79	1,374.96	1,377.40	1,376.36	1,376.51	1,375.98	1,374.12	1,375.70	1,374.64
19	1,375.72	1,374.59	1,374.58	1,374.79	1,375.23	1,377.35	1,376.20	1,376.49	1,376.21	1,374.13	1,375.64	1,374.57
20	1,375.62	1,374.78	1,374.74	1,374.83	1,374.98	1,377.13	1,376.41	1,376.42	1,376.38	1,374.15	1,375.75	1,374.56
21	1,375.47	1,374.73	1,374.81	1,374.81	1,374.92	1,376.96	1,376.33	1,376.39	1,376.63	1,373.78	1,375.72	1,374.56
22	1,375.42	1,374.76	1,374.77	1,374.75	1,375.10	1,377.05	1,376.27	1,376.41	1,376.64	1,373.61	1,375.75	1,374.56
23	1,375.40	1,374.61	1,374.65	1,374.93	1,375.04	1,377.14	1,376.16	1,376.30	1,376.66	1,374.86	1,375.76	1,374.62
24	1,375.36	1,374.56	1,374.68	1,374.95	1,374.99	1,377.04	1,376.36	1,376.20	1,376.62	1,376.50	1,375.72	1,374.59
25	1,375.06	1,374.80	1,374.79	1,375.07	1,375.00	1,376.94	1,376.23	1,376.04	1,376.41	1,377.27	1,375.47	1,374.61
26	1,375.09	1,374.79	1,374.77	1,374.86	1,375.01	1,376.84	1,376.16	1,376.01	e1,376.34	1,378.68	1,375.09	1,374.62
27	1,375.19	1,374.52	1,374.82	1,374.72	1,375.05	1,376.90	1,376.23	1,375.59	e1,376.18	1,379.38	1,375.19	1,374.62
28	1,375.12	1,374.47	1,374.71	1,374.79	1,375.03	1,376.85	1,376.37	1,375.65	1,376.01	1,378.68	1,375.21	1,374.54
29	1,375.20	1,374.75	1,374.66	1,374.87	1,375.24	1,376.82	1,376.26	1,375.82	1,376.03	1,378.15	1,375.21	1,374.59
30	1,375.06	1,374.70	1,374.76	1,374.86	---	1,376.92	1,376.15	1,375.77	1,375.91	1,377.80	1,374.73	1,374.62
31	1,374.79	---	1,374.65	1,374.97	---	1,376.91	---	1,375.58	---	1,377.48	1,374.53	---
MEAN	1,375.17	1,374.76	1,374.68	1,374.76	1,374.94	1,377.54	1,376.46	1,376.14	1,375.63	1,376.02	1,375.71	1,374.72
MAX	1,378.05	1,374.96	1,374.93	1,375.07	1,375.24	1,380.54	1,376.92	1,376.60	1,376.66	1,379.38	1,377.24	1,374.98
MIN	1,373.10	1,374.47	1,374.42	1,374.47	1,374.74	1,374.91	1,376.15	1,375.58	1,374.66	1,373.61	1,374.53	1,374.54

e Estimated

HARVEY COUNTY

380643097353001. Local number 07143665

LOCATION.--Lat 38°06'43", long 97°35'30", Hydrologic Unit 11030012, County Code 079, Halstead quadrangle, at the downstream side of the county bridge, 0.4 mi south of Alta Mills, 0.8 mi downstream from Sand Creek, and at mile 50.1. Owner: U.S. Geological Survey.

AQUIFER.--Equus Beds. Aquifer code: 112PLSC.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2 in., depth 40.1 ft, screened 30.1-40.1 ft.

INSTRUMENTATION.--Submersible transducer interfaced to a data-collection platform/data logger with a 1-hour update interval.

DATUM.--Datum of gage is NGVD of 1929. Measuring point is top of casing, elevation 1,416.97 ft, top of casing is 1.5 ft above land surface.

REMARKS.--Water level fluctuates with river stage.

PERIOD OF RECORD.--February 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1,415.93 ft above NGVD of 1929, June 11, 1995; lowest, 1,391.41 ft above NGVD of 1929, Aug. 20, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,410.53 ft, Mar. 6; minimum elevation, 1,393.05 ft, June 2.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,393.64	1,395.31	1,394.20	1,394.12	1,393.91	1,394.05	1,396.39	1,394.98	1,393.11	1,394.23	1,398.27	1,394.51
2	1,393.64	1,395.26	1,394.30	1,394.12	1,393.87	1,394.00	1,396.22	1,394.97	1,393.06	1,394.98	1,397.74	1,394.50
3	1,393.66	1,395.24	1,394.24	1,394.06	1,393.87	1,394.14	1,396.11	1,394.99	1,393.09	1,396.63	1,397.36	1,394.45
4	1,393.62	1,395.14	1,394.22	1,394.03	1,393.89	1,394.98	1,396.01	1,395.02	1,393.26	1,398.04	1,396.69	1,394.40
5	1,393.63	1,395.04	1,394.17	1,393.97	1,393.90	1,402.50	1,395.96	1,395.05	1,394.09	1,398.69	1,395.99	1,394.39
6	1,393.62	1,394.98	1,394.22	1,393.96	1,393.85	1,410.15	1,395.88	1,394.97	1,394.08	1,397.94	1,395.18	1,394.32
7	1,393.62	1,394.94	1,394.29	1,394.04	1,393.88	1,410.14	1,395.82	1,394.90	1,394.12	1,397.43	1,395.45	1,394.29
8	1,393.60	1,394.89	1,394.25	1,394.00	1,393.94	1,406.56	1,395.71	1,394.88	1,393.96	1,397.69	1,395.27	1,394.27
9	1,400.19	1,394.87	1,394.24	1,393.94	1,393.84	1,403.57	1,395.69	1,394.87	1,393.93	1,397.16	1,395.51	1,394.26
10	1,406.77	1,394.91	1,394.13	1,393.97	1,393.85	1,401.57	1,395.61	1,394.78	1,394.32	1,396.53	1,395.64	1,394.23
11	1,408.25	1,394.84	1,394.20	1,394.00	1,393.86	1,400.25	1,395.59	1,394.79	1,394.25	1,395.02	1,396.15	1,394.20
12	1,405.03	1,394.72	1,394.20	1,393.95	1,393.91	1,399.47	1,395.54	1,394.75	1,394.23	1,395.47	1,396.44	1,394.16
13	1,402.96	1,394.70	1,394.24	1,393.93	1,393.92	1,398.86	1,395.50	1,395.01	1,394.24	e1,395.62	1,396.17	1,394.13
14	1,401.08	1,394.81	1,394.24	1,393.98	1,393.91	1,398.31	1,395.50	1,395.08	1,394.11	1,394.24	1,395.82	1,394.09
15	1,400.07	1,394.74	1,394.27	1,393.97	1,393.91	1,398.07	1,395.48	1,394.98	1,394.03	1,394.12	1,395.63	1,394.04
16	1,399.30	1,394.69	1,394.11	1,394.01	1,393.86	1,397.73	1,395.41	1,394.94	1,394.09	1,393.96	1,395.52	1,394.02
17	1,398.52	1,394.74	1,394.18	1,393.99	1,393.81	1,397.53	1,395.33	1,394.89	1,394.28	1,394.48	1,395.42	1,394.00
18	1,397.96	1,394.65	1,394.12	1,393.93	1,393.90	1,397.20	1,395.32	1,394.83	1,395.76	1,393.70	1,395.35	1,393.97
19	1,397.48	1,394.58	1,394.12	1,393.91	1,394.01	1,397.09	1,395.20	1,394.97	1,395.51	1,394.09	1,395.21	1,393.95
20	1,397.12	1,394.67	1,394.18	1,393.93	1,394.04	1,396.81	1,395.30	1,395.35	1,395.83	1,393.67	1,395.16	1,393.94
21	1,396.80	1,394.50	1,394.19	1,393.91	1,394.42	1,396.68	1,395.21	1,395.18	1,396.58	1,393.31	1,395.11	1,393.90
22	1,396.55	1,394.50	1,394.15	1,393.89	1,394.62	1,396.64	1,395.16	1,395.06	1,397.64	1,393.50	1,395.09	1,393.88
23	1,396.38	1,394.39	1,394.14	1,393.97	1,394.51	1,396.59	1,395.13	1,394.89	1,397.31	1,395.65	1,395.03	1,393.88
24	1,396.18	1,394.40	1,394.15	1,393.98	1,394.37	1,396.45	1,395.20	1,394.83	1,396.72	1,400.11	1,394.95	1,393.86
25	1,395.92	1,394.43	1,394.21	1,394.03	1,394.26	1,396.36	1,395.12	1,394.71	1,396.14	1,404.02	1,394.88	1,393.85
26	1,395.88	1,394.40	1,394.24	1,393.93	1,394.19	1,396.25	1,395.15	1,394.73	1,394.71	1,408.67	1,394.94	1,393.89
27	1,395.81	1,394.27	1,394.25	1,393.91	1,394.15	1,396.25	1,395.24	1,394.66	1,394.32	1,408.29	1,394.79	1,393.86
28	1,395.65	1,394.27	1,394.16	1,393.93	1,394.10	1,396.19	1,395.24	1,393.57	1,395.01	1,403.68	1,394.68	1,393.81
29	1,395.65	1,394.38	1,394.13	1,393.96	1,394.18	1,396.98	1,395.10	1,393.59	1,395.17	1,400.90	1,394.63	1,393.81
30	1,395.47	1,394.29	1,394.15	1,393.96	---	1,397.04	1,395.03	1,393.35	1,394.43	1,399.71	1,394.60	1,393.80
31	1,395.30	---	1,394.09	1,393.97	---	1,396.62	---	1,393.18	---	1,398.91	1,394.54	---
MEAN	1,397.40	1,394.72	1,394.19	1,393.98	1,394.03	1,398.55	1,395.51	1,394.73	1,394.71	1,397.43	1,395.59	1,394.09
MAX	1,408.25	1,395.31	1,394.30	1,394.12	1,394.62	1,410.15	1,396.39	1,395.35	1,397.64	1,408.67	1,398.27	1,394.51
MIN	1,393.60	1,394.27	1,394.09	1,393.89	1,393.81	1,394.00	1,395.03	1,393.18	1,393.06	1,393.31	1,394.54	1,393.80

e Estimated

RENO COUNTY

380842098063701. Local number 07142680

LOCATION.--Lat 38°08'42", long 98°06'37", Hydrologic Unit 11030011, County Code 155, Halstead quadrangle, on the upstream side of the bridge, north of Kansas Highway 96, west of Nickerson, and at mile 825.8. Owner: U.S. Geological Survey.

AQUIFER.--Equus Beds. Aquifer code: 112PLSC.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2 in., depth 47.0 ft, screened 37-47 ft.

INSTRUMENTATION.--Submersible transducer interfaced to a data-collection platform/data logger with a 1-hour update interval.

DATUM.--Datum of gage is NGVD of 1929. Measuring point is top of casing, elevation 1,603.68 ft, top of casing is 2.0 ft above land surface.

REMARKS.--Water level fluctuates with river stage.

PERIOD OF RECORD.--July 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1,596.70 ft above NGVD of 1929, June 12, 2001; lowest, 1,590.64 ft above NGVD of 1929, Aug. 23, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,591.69 ft, July 7; minimum elevation, 1,590.66 ft, June 14.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,590.72	1,590.76	1,590.69	1,590.69	1,591.00	1,590.71	1,590.96	1,590.91	1,590.74	1,591.10	1,591.37	1,591.03
2	1,590.71	1,590.76	1,590.69	1,590.69	1,591.03	1,590.70	1,590.96	1,590.90	1,590.74	1,591.12	1,591.40	1,591.01
3	1,590.72	1,590.76	1,590.69	1,590.69	1,590.96	1,590.71	1,590.95	1,590.90	1,590.74	1,591.09	1,591.37	1,591.01
4	1,590.71	1,590.76	1,590.69	1,590.68	1,590.77	1,590.78	1,590.95	1,590.89	1,590.73	1,591.09	1,591.33	1,590.99
5	1,590.71	1,590.74	1,590.69	1,590.68	1,590.73	1,591.06	1,590.95	1,590.88	1,590.73	1,591.08	1,591.31	1,590.99
6	1,590.71	1,590.74	1,590.69	1,590.73	1,590.71	1,591.16	1,590.94	1,590.88	1,590.73	1,591.28	1,591.28	1,590.98
7	1,590.71	1,590.74	1,590.69	1,590.95	1,590.70	1,591.23	1,590.94	1,590.88	1,590.71	1,591.69	1,591.27	1,590.98
8	1,590.72	1,590.73	1,590.69	1,591.02	1,590.69	1,591.27	1,590.94	1,590.86	1,590.71	1,591.58	1,591.25	1,590.96
9	1,591.02	1,590.73	1,590.70	1,590.76	1,590.69	1,591.19	1,590.94	1,590.86	1,590.71	1,591.49	1,591.24	1,590.96
10	1,590.98	1,590.73	1,590.69	1,590.72	1,590.69	1,591.13	1,590.94	1,590.86	1,590.71	1,591.44	1,591.24	1,590.94
11	1,590.92	1,590.73	1,590.70	1,590.71	1,590.69	1,591.09	1,590.94	1,590.86	1,590.69	1,591.39	1,591.23	1,590.94
12	1,590.88	1,590.72	1,590.69	1,590.70	1,590.69	1,591.07	1,590.93	1,590.85	1,590.69	1,591.33	1,591.24	1,590.93
13	1,590.87	1,590.72	1,590.70	1,590.70	1,590.69	1,591.06	1,590.93	1,590.86	1,590.68	1,591.29	1,591.24	1,590.91
14	1,590.85	1,590.72	1,590.69	1,590.70	1,590.69	1,591.04	1,590.93	1,590.85	1,590.67	1,591.26	1,591.22	1,590.91
15	1,590.84	1,590.72	1,590.69	1,590.69	1,590.69	1,591.03	1,590.93	1,590.84	1,590.68	1,591.24	1,591.20	1,590.90
16	1,590.84	1,590.71	1,590.70	1,590.69	1,590.69	1,591.02	1,590.93	1,590.83	1,590.68	1,591.21	1,591.21	1,590.89
17	1,590.82	1,590.72	1,590.69	1,590.69	1,590.69	1,591.01	1,590.93	1,590.84	1,590.68	1,591.20	1,591.22	1,590.88
18	1,590.82	1,590.71	1,590.70	1,590.69	1,590.69	1,591.01	1,590.92	1,590.85	1,590.72	1,591.18	1,591.24	1,590.87
19	1,590.82	1,590.71	1,590.70	1,590.69	1,590.70	1,591.00	1,590.92	1,590.85	1,590.74	1,591.17	1,591.27	1,590.86
20	1,590.81	1,590.70	1,590.70	1,590.68	1,590.70	1,590.99	1,590.94	1,590.85	1,590.76	1,591.15	1,591.24	1,590.86
21	1,590.81	1,590.70	1,590.70	1,590.69	1,590.70	1,590.98	1,590.93	1,590.84	1,590.79	1,591.15	1,591.19	1,590.85
22	1,590.81	1,590.70	1,590.70	1,590.68	1,590.70	1,590.98	1,590.92	1,590.82	1,590.81	1,591.14	1,591.18	1,590.85
23	1,590.80	1,590.69	1,590.70	1,590.69	1,590.69	1,590.97	1,590.93	1,590.82	1,590.82	1,591.25	1,591.16	1,590.90
24	1,590.79	1,590.69	1,590.71	1,590.68	1,590.69	1,590.97	1,590.94	1,590.81	1,590.94	1,591.44	1,591.14	1,590.89
25	1,590.78	1,590.69	1,590.70	1,590.69	1,590.69	1,590.97	1,590.93	1,590.79	1,591.29	1,591.45	1,591.12	1,590.87
26	1,590.78	1,590.70	1,590.70	1,590.69	1,590.69	1,590.97	1,590.93	1,590.79	1,591.29	1,591.46	1,591.11	1,590.86
27	1,590.78	1,590.69	1,590.70	1,590.68	1,590.69	1,590.97	1,590.92	1,590.79	1,591.23	1,591.41	1,591.09	1,590.84
28	1,590.77	1,590.69	1,590.70	1,590.68	1,590.69	1,590.98	1,590.92	1,590.77	1,591.20	1,591.39	1,591.08	1,590.83
29	1,590.77	1,590.69	1,590.69	1,590.68	1,590.71	1,590.97	1,590.91	1,590.77	1,591.17	1,591.39	1,591.06	1,590.82
30	1,590.77	1,590.69	1,590.69	1,590.78	---	1,590.96	1,590.91	1,590.77	1,591.12	1,591.38	1,591.05	1,590.82
31	1,590.77	---	1,590.69	1,590.88	---	1,590.96	---	1,590.75	---	1,591.36	1,591.04	---
MEAN	1,590.80	1,590.72	1,590.69	1,590.72	1,590.73	1,591.00	1,590.93	1,590.84	1,590.83	1,591.30	1,591.21	1,590.91
MAX	1,591.02	1,590.76	1,590.71	1,591.02	1,591.03	1,591.27	1,590.96	1,590.91	1,591.29	1,591.69	1,591.40	1,591.03
MIN	1,590.71	1,590.69	1,590.69	1,590.68	1,590.69	1,590.70	1,590.91	1,590.75	1,590.67	1,591.08	1,591.04	1,590.82

SEDGWICK COUNTY

374956097231601. Local number 07144200

LOCATION.--Lat 37°49'56", long 97°23'16", Hydrologic Unit 11030012, County Code 173, Maize quadrangle, on right bank at downstream side of county highway bridge, 0.5 mi west of Valley Center, and at mile 15.6 from mouth. Owner: U.S. Geological Survey.

AQUIFER.--Equus Beds. Aquifer code: 112PLSC.

WELL CHARACTERISTICS.--Drilled, unused water-table well, diameter 2 in., depth 50.0 ft, screened 40.0-50.0 ft.

INSTRUMENTATION.--Submersible transducer interfaced to a data-collection platform/data logger with a 1-hour update interval.

DATUM.--Datum of gage is NGVD of 1929. Measuring point is top of casing, elevation 1,349.63 ft, top of casing is 2.00 ft above land-surface datum.

REMARKS.--Water level fluctuates with river stage.

PERIOD OF RECORD.--October 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 1,334.68 ft above NGVD of 1929, June 13, 1995; lowest, 1,327.59 ft above NGVD of 1929, Oct. 2, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,332.71 ft, July 28; minimum elevation, 1,328.23 ft, Sept. 26.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,328.76	1,329.16	1,328.72	1,328.58	1,328.50	1,328.54	1,329.21	1,328.66	1,328.55	1,329.24	e1,330.30	1,328.62
2	1,328.72	1,329.13	1,328.72	1,328.58	1,328.50	1,328.53	1,328.95	1,328.66	1,328.53	1,329.17	1,330.00	1,328.61
3	1,328.72	1,329.12	1,328.71	1,328.57	1,328.56	1,328.54	1,328.87	1,328.63	1,328.49	1,329.36	1,329.81	1,328.58
4	1,328.72	1,329.09	1,328.71	1,328.56	1,328.50	1,328.83	1,328.80	1,328.63	1,328.49	1,329.93	1,329.66	1,328.55
5	1,328.68	e1,329.07	1,328.69	1,328.55	1,328.49	1,330.89	e1,328.74	1,328.62	1,328.47	1,331.18	1,329.53	1,328.52
6	1,328.66	e1,329.05	1,328.69	1,328.53	1,328.48	1,331.37	e1,328.69	1,328.62	1,328.47	1,331.34	1,329.45	1,328.52
7	1,328.64	1,329.03	1,328.69	1,328.56	1,328.46	1,331.43	e1,328.67	1,328.62	1,328.46	1,330.75	1,329.36	1,328.52
8	1,328.62	1,329.01	1,328.69	1,328.54	1,328.48	1,331.56	e1,328.65	1,328.59	1,328.43	1,330.34	1,329.29	1,328.50
9	1,331.11	1,328.99	1,328.70	1,328.50	1,328.45	1,331.43	e1,328.65	1,328.57	1,328.42	1,330.16	1,329.22	1,328.49
10	1,331.99	1,328.99	1,328.69	1,328.51	1,328.45	1,331.09	e1,328.65	1,328.55	1,328.46	1,329.83	1,329.20	1,328.47
11	1,332.20	1,328.98	1,328.68	1,328.51	1,328.45	1,330.66	e1,328.65	1,328.54	1,328.52	1,329.58	1,329.44	1,328.45
12	1,332.39	1,328.96	1,328.67	1,328.50	1,328.43	1,330.39	e1,328.65	1,328.52	1,328.45	1,329.40	1,329.46	1,328.43
13	1,332.02	1,328.93	1,328.68	1,328.50	1,328.46	1,330.14	e1,328.66	1,330.22	1,328.54	1,329.26	1,329.44	1,328.41
14	1,331.49	1,328.93	1,328.69	1,328.50	1,328.44	1,329.97	e1,328.66	1,330.60	1,328.47	1,329.18	1,329.30	e1,328.38
15	1,331.03	1,328.91	1,328.71	1,328.49	1,328.43	1,329.81	e1,328.65	1,329.72	1,328.46	1,329.08	1,329.18	e1,328.36
16	1,330.73	1,328.90	1,328.67	1,328.49	1,328.44	1,329.72	e1,328.65	1,329.41	1,328.48	1,329.01	1,329.12	e1,328.33
17	1,330.49	1,328.89	1,328.66	1,328.51	1,328.43	1,329.63	e1,328.65	1,329.20	1,328.46	1,328.95	1,329.08	1,328.30
18	1,330.29	1,328.88	1,328.65	1,328.66	1,328.48	1,329.52	e1,328.66	1,329.08	1,329.15	1,328.90	1,329.02	1,328.30
19	1,330.09	1,328.84	1,328.64	1,328.61	1,328.61	1,329.45	e1,328.66	1,328.99	1,329.85	1,328.85	1,328.99	1,328.26
20	1,329.94	1,328.85	1,328.65	1,328.57	1,328.65	1,329.37	e1,328.66	1,328.95	1,329.47	1,328.80	1,328.96	1,328.26
21	1,329.81	1,328.83	1,328.65	1,328.55	1,328.64	1,329.26	e1,328.67	1,329.03	1,329.42	1,328.75	1,328.93	1,328.24
22	1,329.70	1,328.83	1,328.65	1,328.52	1,328.74	1,329.12	e1,328.67	1,328.93	1,330.02	1,328.69	1,328.89	1,328.25
23	1,329.62	1,328.80	1,328.65	1,328.51	1,328.77	1,328.99	e1,328.66	1,328.85	1,330.14	1,328.80	1,328.88	1,328.27
24	1,329.55	1,328.79	1,328.65	1,328.50	1,328.72	1,328.95	e1,328.67	1,328.81	1,329.73	1,331.40	1,328.83	1,328.28
25	1,329.45	1,328.79	1,328.64	1,328.50	1,328.66	1,328.94	e1,328.68	1,328.76	1,329.39	1,332.05	1,328.82	1,328.28
26	1,329.41	1,328.78	1,328.63	1,328.52	1,328.59	1,328.90	e1,328.69	1,328.73	1,329.17	1,332.35	1,328.79	1,328.25
27	1,329.37	1,328.76	1,328.64	1,328.48	1,328.55	1,328.85	1,328.71	1,328.70	1,329.03	1,332.63	1,328.75	1,328.27
28	1,329.32	1,328.74	1,328.63	1,328.55	1,328.54	1,329.10	1,328.73	1,328.66	1,329.06	1,332.58	1,328.74	1,328.27
29	1,329.29	1,328.74	1,328.61	1,328.53	1,328.54	1,329.05	1,328.70	1,328.64	1,329.92	1,331.63	1,328.70	1,328.27
30	1,329.24	1,328.73	1,328.61	1,328.54	---	1,329.59	1,328.68	1,328.61	1,329.53	e1,331.00	1,328.67	1,328.26
31	1,329.19	---	1,328.60	1,328.53	---	1,329.49	---	1,328.57	---	e1,330.65	1,328.65	---
MEAN	1,329.91	1,328.92	1,328.67	1,328.53	1,328.53	1,329.71	1,328.71	1,328.89	1,328.93	1,330.09	1,329.18	1,328.38
MAX	1,332.39	1,329.16	1,328.72	1,328.66	1,328.77	1,331.56	1,329.21	1,330.60	1,330.14	1,332.63	1,330.30	1,328.62
MIN	1,328.62	1,328.73	1,328.60	1,328.48	1,328.43	1,328.53	1,328.65	1,328.52	1,328.42	1,328.69	1,328.65	1,328.24

e Estimated

SEDGWICK COUNTY

375259097252901. Local number EB-142

LOCATION.-- Lat 37°52'59", long 97°25'29", Hydrologic Unit 11030012, County Code 173, Sedgwick quadrangle, at the downstream side of the county bridge, 2.0 mi south of Sedgwick, 4.1 mi downstream from Sand Creek. Owner: U.S. Geological Survey.

AQUIFER.--Equus Beds. Aquifer code: 112PLSC.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2 in., depth 48.5 ft, screened 38.5-48.5 ft.

INSTRUMENTATION.--Submersible transducer interfaced to a data-collection platform/data logger with a 1-hour update interval.

DATUM.-- Datum of gage is NGVD of 1929. Measuring point is top of PVC casing, elevation 1,370.34 ft, top of casing is 1.5 ft above land surface.

REMARKS.--Water level flucuates with river stage and nearby pumping.

PERIOD OF RECORD.--November 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1,359.52 ft above NGVD of 1929, Nov. 4, 1998; lowest, 1,344.40 ft above NGVD of 1929, Aug. 29, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,352.71 ft, Mar. 6; minimum elevation, 1,345.27 ft, Oct. 8.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,345.39	1,346.84	1,345.99	1,345.67	1,345.43	1,345.42	1,347.26	e1,346.28	1,346.29	1,346.79	1,348.32	1,346.13
2	1,345.36	1,346.80	1,346.00	1,345.66	1,345.42	1,345.38	1,347.18	e1,346.26	1,346.24	1,346.70	1,348.04	1,346.10
3	1,345.36	1,346.76	1,345.97	1,345.65	1,345.41	1,345.41	1,347.12	1,346.24	1,346.22	1,346.86	1,347.85	1,346.06
4	1,345.34	1,346.71	1,345.95	1,345.62	1,345.42	1,345.67	1,347.07	1,346.22	1,346.20	1,347.01	1,347.67	1,346.03
5	1,345.32	1,346.66	1,345.93	1,345.61	1,345.41	1,349.24	1,347.02	1,346.21	1,346.19	1,347.61	1,347.51	1,346.00
6	1,345.30	1,346.62	1,345.93	1,345.58	1,345.39	1,352.50	1,346.98	1,346.19	1,346.16	1,347.67	1,347.40	1,345.97
7	1,345.29	1,346.59	1,345.93	1,345.61	1,345.37	1,352.04	1,346.94	1,346.16	1,346.14	1,347.59	1,347.31	1,345.95
8	1,345.27	1,346.55	1,345.91	1,345.58	1,345.40	1,351.73	1,346.88	1,346.15	1,346.11	1,347.48	1,347.20	1,345.93
9	1,347.71	1,346.51	1,345.90	1,345.56	1,345.37	1,350.68	1,346.85	1,346.14	1,346.07	1,347.40	1,347.12	1,345.90
10	1,351.25	1,346.50	1,345.88	1,345.56	1,345.38	1,350.18	1,346.81	1,346.11	1,346.10	1,347.24	1,347.05	1,345.88
11	1,351.27	1,346.46	1,345.86	1,345.55	1,345.37	1,349.67	1,346.77	1,346.10	1,346.14	1,347.12	1,347.12	1,345.86
12	1,351.11	1,346.41	1,345.85	1,345.53	1,345.36	1,349.33	1,346.73	1,346.07	1,346.09	1,347.00	1,347.13	1,345.85
13	1,350.03	1,346.38	1,345.85	1,345.52	1,345.36	1,349.05	1,346.70	e1,346.55	1,346.17	1,346.87	1,347.09	1,345.82
14	1,349.48	1,346.39	1,345.85	1,345.52	1,345.36	1,348.78	1,346.67	e1,347.00	1,346.19	1,346.79	1,346.99	1,345.81
15	1,349.09	1,346.35	1,345.86	1,345.52	1,345.35	1,348.61	1,346.65	e1,346.90	1,346.17	1,346.67	1,346.90	1,345.77
16	1,348.78	1,346.32	1,345.80	1,345.52	1,345.35	1,348.43	1,346.61	e1,346.80	1,346.16	1,346.59	1,346.84	1,345.76
17	1,348.50	1,346.31	1,345.80	e1,345.52	1,345.33	1,348.30	1,346.58	e1,346.75	1,346.14	1,346.52	1,346.78	1,345.74
18	1,348.28	1,346.27	1,345.78	1,345.56	1,345.37	1,348.13	1,346.56	e1,346.63	1,346.53	1,346.47	1,346.72	1,345.73
19	1,348.07	1,346.24	1,345.77	1,345.53	1,345.42	1,348.02	1,346.51	e1,346.60	1,346.80	1,346.42	1,346.65	1,345.70
20	1,347.90	1,346.24	1,345.77	1,345.52	1,345.43	1,347.88	1,346.51	1,346.60	1,346.80	1,346.36	1,346.62	1,345.70
21	1,347.74	1,346.21	1,345.77	1,345.50	1,345.44	1,347.78	1,346.48	1,346.65	1,346.83	1,346.30	1,346.58	1,345.67
22	1,347.61	1,346.20	1,345.76	1,345.49	1,345.53	1,347.71	1,346.44	1,346.61	1,347.05	1,346.25	1,346.54	1,345.66
23	1,347.50	1,346.15	1,345.74	1,345.49	1,345.56	1,347.65	1,346.41	1,346.56	1,347.13	1,346.59	1,346.51	1,345.64
24	1,347.40	1,346.14	1,345.73	1,345.49	1,345.54	1,347.55	1,346.43	1,346.53	1,347.05	1,347.80	1,346.45	1,345.64
25	1,347.28	1,346.12	1,345.74	1,345.49	1,345.50	1,347.48	1,346.40	1,346.48	1,346.90	1,349.74	1,346.41	1,345.62
26	1,347.22	1,346.11	1,345.73	1,345.47	1,345.47	1,347.41	1,346.37	1,346.47	1,346.79	1,350.21	1,346.37	1,345.63
27	1,347.18	1,346.06	1,345.73	1,345.46	1,345.44	1,347.37	1,346.36	1,346.44	1,346.69	1,350.48	1,346.33	1,345.61
28	1,347.08	1,346.04	1,345.71	1,345.46	1,345.42	1,347.37	1,346.37	1,346.40	1,346.68	1,350.03	1,346.28	1,345.60
29	1,347.04	1,346.05	1,345.70	1,345.45	1,345.44	1,347.33	1,346.32	1,346.40	1,347.04	1,349.27	1,346.25	1,345.61
30	1,346.96	1,346.02	1,345.69	1,345.45	---	1,347.40	1,346.29	1,346.34	1,346.93	1,348.81	1,346.20	1,345.59
31	1,346.88	---	1,345.67	1,345.45	---	1,347.34	---	1,346.33	---	1,348.49	1,346.17	---
MEAN	1,347.55	1,346.37	1,345.82	1,345.54	1,345.41	1,348.29	1,346.68	1,346.42	1,346.47	1,347.52	1,346.92	1,345.80
MAX	1,351.27	1,346.84	1,346.00	1,345.67	1,345.56	1,352.50	1,347.26	1,347.00	1,347.13	1,350.48	1,348.32	1,346.13
MIN	1,345.27	1,346.02	1,345.67	1,345.45	1,345.33	1,345.38	1,346.29	1,346.07	1,346.07	1,346.25	1,346.17	1,345.59

e Estimated

STAFFORD COUNTY

381119098435301. Local number 21S 13W 27DDDC01

LOCATION.--Lat 38°11'19", long 98°43'53", Hydrologic Unit 11030004, County Code 185, 12 mi south and 0.75 mi east of Great Bend. Owner: U.S. Geological Survey.

AQUIFER.--Ogallala Formation. Aquifer code: 121OGLL.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in., depth 44 ft. Prior to Mar. 27, 2000, well was located 200 ft from current site and published under station number 381120098434802.

INSTRUMENTATION.--Submersible transducer interfaced to a data-collection platform/data logger with a 1-hour update interval.

DATUM.--Datum of gage is NGVD of 1929. Measuring point is top of PVC casing, elevation 1,880.57 ft, measuring point is 4.7 ft above land surface.

REMARKS.--Water level fluctuates with nearby pumping.

PERIOD OF RECORD.--2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1,871.55 ft above NGVD of 1929, May 10, 2000; lowest, 1,861.43 ft above NGVD of 1929, Sept. 22, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum, 1,862.13, Apr. 6; minimum, 1,861.43, Sept. 22.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,861.85	1,861.88	1,861.85	1,861.85	e1,861.86	1,861.83	1,862.11	1,862.00	1,861.63	1,861.64	1,861.96	1,861.91
2	1,861.85	1,861.89	1,861.86	1,861.86	1,861.85	1,861.82	1,862.11	1,861.99	1,861.62	1,861.64	1,861.98	1,861.90
3	1,861.85	1,861.90	1,861.84	1,861.85	1,861.85	1,861.83	1,862.09	1,861.99	1,861.60	1,861.64	1,862.00	1,861.87
4	1,861.84	1,861.90	1,861.83	1,861.84	1,861.86	1,861.86	1,862.11	1,861.99	1,861.59	1,861.64	1,862.00	1,861.84
5	1,861.83	1,861.90	1,861.82	1,861.84	1,861.86	1,861.91	1,862.12	1,861.98	1,861.59	1,861.64	1,862.00	1,861.82
6	1,861.82	1,861.90	1,861.83	1,861.84	1,861.85	1,861.95	1,862.12	1,861.97	1,861.59	1,861.66	1,861.99	1,861.78
7	1,861.82	1,861.90	1,861.83	1,861.86	1,861.85	1,861.95	1,862.11	1,861.94	1,861.58	1,861.71	1,861.98	1,861.76
8	1,861.82	1,861.91	1,861.83	1,861.86	1,861.87	1,861.97	1,862.09	1,861.92	1,861.57	1,861.73	1,861.97	1,861.74
9	1,861.84	1,861.91	1,861.82	1,861.85	1,861.85	1,861.99	1,862.10	1,861.88	1,861.57	1,861.74	1,861.95	1,861.72
10	1,861.85	1,861.93	1,861.82	1,861.85	1,861.85	1,862.01	1,862.07	1,861.86	1,861.57	1,861.74	1,861.94	1,861.68
11	1,861.85	1,861.93	1,861.82	1,861.86	1,861.85	1,862.00	1,862.08	1,861.85	1,861.56	1,861.74	1,861.94	1,861.65
12	1,861.86	1,861.91	1,861.81	1,861.85	1,861.84	1,862.02	1,862.08	1,861.83	1,861.55	1,861.73	1,861.94	1,861.63
13	1,861.88	1,861.91	1,861.82	1,861.84	1,861.86	1,862.03	1,862.08	1,861.81	1,861.53	1,861.71	1,861.93	1,861.61
14	1,861.87	1,861.94	1,861.82	1,861.85	1,861.86	1,862.02	1,862.09	1,861.80	1,861.51	1,861.69	1,861.93	1,861.59
15	1,861.88	1,861.93	1,861.83	1,861.85	1,861.85	1,862.03	1,862.09	1,861.80	1,861.51	1,861.67	1,861.93	1,861.57
16	1,861.88	1,861.93	1,861.81	1,861.84	1,861.84	1,862.04	1,862.09	1,861.80	1,861.50	1,861.63	1,861.93	1,861.55
17	1,861.87	1,861.95	1,861.82	1,861.82	1,861.83	1,862.04	1,862.09	1,861.80	1,861.49	1,861.59	1,861.93	1,861.53
18	1,861.88	1,861.93	1,861.81	1,861.82	1,861.84	1,862.02	1,862.08	1,861.79	1,861.49	1,861.56	1,861.94	1,861.50
19	1,861.88	1,861.92	1,861.82	1,861.83	1,861.84	1,862.03	1,862.06	1,861.79	1,861.49	1,861.53	1,861.93	1,861.48
20	1,861.87	1,861.94	1,861.83	1,861.83	1,861.80	1,862.01	1,862.08	1,861.78	1,861.50	1,861.50	1,861.94	1,861.46
21	1,861.85	1,861.93	1,861.84	1,861.83	1,861.81	1,862.02	1,862.07	1,861.78	1,861.54	1,861.48	1,861.94	1,861.45
22	1,861.85	1,861.93	1,861.83	1,861.83	1,861.82	1,862.05	1,862.06	1,861.77	1,861.59	1,861.45	1,861.95	1,861.43
23	1,861.82	1,861.90	1,861.83	1,861.85	1,861.81	1,862.05	1,862.04	1,861.76	1,861.62	1,861.47	1,861.95	1,861.44
24	1,861.86	1,861.90	1,861.84	1,861.86	1,861.82	1,862.06	1,862.05	1,861.75	1,861.64	1,861.59	1,861.96	1,861.45
25	1,861.85	1,861.91	1,861.85	1,861.87	1,861.82	1,862.06	1,862.04	1,861.73	1,861.64	1,861.66	1,861.96	1,861.45
26	1,861.87	1,861.91	1,861.85	1,861.85	1,861.82	1,862.05	1,862.02	1,861.72	1,861.65	1,861.69	1,861.96	1,861.46
27	1,861.88	1,861.88	1,861.86	1,861.85	1,861.82	1,862.07	1,862.03	1,861.70	1,861.66	1,861.72	1,861.96	1,861.46
28	1,861.88	1,861.87	1,861.84	1,861.85	1,861.83	1,862.07	1,862.04	1,861.69	1,861.67	1,861.73	1,861.95	1,861.47
29	1,861.90	1,861.89	1,861.85	1,861.86	1,861.85	1,862.10	1,862.03	1,861.68	1,861.66	1,861.80	1,861.95	1,861.49
30	1,861.89	1,861.88	1,861.85	1,861.86	---	1,862.10	1,862.02	1,861.66	1,861.65	1,861.88	1,861.94	1,861.50
31	1,861.87	---	1,861.84	1,861.88	---	1,862.11	---	1,861.66	---	1,861.92	1,861.93	---
MEAN	1,861.86	1,861.91	1,861.83	1,861.85	1,861.84	1,862.00	1,862.08	1,861.82	1,861.58	1,861.66	1,861.95	1,861.61
MAX	1,861.90	1,861.95	1,861.86	1,861.88	1,861.87	1,862.11	1,862.12	1,862.00	1,861.67	1,861.92	1,862.00	1,861.91
MIN	1,861.82	1,861.87	1,861.81	1,861.82	1,861.80	1,861.82	1,862.02	1,861.66	1,861.49	1,861.45	1,861.93	1,861.43

e Estimated

KANSAS RIVER BASIN

384021100545400 SCOTT LAKE STATE PARK, KS

(National Atmospheric Deposition Program/National Trends Network station)

LOCATION.--Lat 38°40"21", long 100°54'54", in SW ¼ SW ¼ SE ¼ sec.12, T.16 S., R.33 W., Scott County, Hydrologic Unit 10260004, 14 mi north of Scott City, and 1 mi south of Scott Lake.

PERIOD OF RECORD.--March 1984 to current year.

INSTRUMENTATION.--The sample collector is an Aerochem Metrics Wet/Dry Precipitation Collector and a recording rain gage (with event recorder).

REMARKS.--Chemical analyses of rainfall collected in wet-dry automatic sampler. Data collected in cooperation with Kansas Department of Wildlife and Parks. Chemical analyses from National Atmospheric Deposition Program, National Trends Network Analytical Laboratory. If a sufficient volume of sample is collected, specific conductance and pH are measured in the field before the composite sample is sent in for analysis.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Precip-itation total, in/wk (00046)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc-tance, wat unf lab, uS/cm 25 degC (90095)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Chlor-ide, water, fltrd, mg/L (00940)
OCT 07-14	.35	6.0	6.4	7	7		.18	.02	.04	.0	.01	4	.1
NOV 18-25	.05	--	7.2	45	--	13	5.06	.20	.31	.0	.24	4	.2
DEC 02-09	.29	6.6	7.0	19	17	4	1.51	.08	.20	.0	.04	2	.1
DEC 30 2003-JAN 06 2004	.03	--	6.7	22	--	4	1.56	.08	.16	.0	.15	7	.1
JAN 27-FEB 03	.15	5.0	5.1	8	8		.14	.01	.01	.0	.01	4	M
FEB 03-10	.29	4.9	5.0	12	13		.37	.02	.03	.0	.06	11	.1
FEB 17-24	.03	--	6.1	14	--		.33	.03	.08	.0	.07	13	.2
FEB 24-MAR 02	.45	5.9	6.3	4	4		.03	M	.01	.0	.01	10	M
MAR 02-09	.38	5.4	5.6	4	4	--	.04	<.003	M	--	.01	--	M
APR 06-13	1.13	5.4	6.2	10	11		.22	.02	.03	.0	.02	5	M
APR 13-20	.07	5.4	6.4	16	16	2	.62	.07	.10	.0	.15	14	.2
APR 20-27	2.00	5.8	6.3	11	15	1	.37	.03	.02	.0	.12	19	.1
APR 27-MAY 04	.17	5.9	6.8	23	22	4	1.42	.10	.07	.1	.24	11	.2
MAY 11-18	1.50	6.3	6.8	19	18	4	1.53	.12	.26	.0	.08	3	.1
MAY 18-25	.95	6.0	6.7	12	11	2	.55	.04	.05	.0	.09	11	.1
JUN 01-08	.70	6.1	7.1	20	18	3	1.08	.08	.12	.0	.06	4	.1
JUN 08-15	.72	5.8	7.0	12	13	2	.82	.06	.13	.0	.08	6	.1
JUN 15-22	5.29	--	6.5	5	--		.13	.01	.01	.0	.02	12	M
JUN 22-29	.28	6.1	6.6	13	15	2	.63	.04	.04	.0	.02	2	.1
JUN 29-JUL 06	1.43	6.2	6.5	8	8		.26	.02	.05	.0	.02	6	M
JUL 13-20	--	6.5	7.0	19	18	3	1.21	.07	.12	.0	.11	7	.1
JUL 20-27	--	5.4	5.6	7	7		.11	.01	.01	.0	.01	4	M
AUG 03-10	2.94	5.5	5.8	4	4		.03	M	M	.0	M	7	M
AUG 10-17	.31	5.8	6.8	9	22		.19	.02	.03	.0	.03	10	.1
AUG 17-24	.05	--	5.9	15	--	1	.49	.06	.18	.0	.06	7	.1
AUG 31-SEP 04	.08	5.8	6.6	10	13	1	.44	.04	.08	.0	.02	4	.1
SEP 14-21	.02	--	7.5	31	--	11	4.02	.31	1.05	.0	.28	5	.5

KANSAS RIVER BASIN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L (71846)	Nitrate water, fltrd, mg/L (71851)	Phos-phate, water, fltrd, mg/L (00653)	Sample volume, mL (32002)
OCT 07-14	.5	.75	.855	<.01	580
NOV 18-25	3.1	1.99	5.68	<.01	38
DEC 02-09	1.7	1.12	1.94	<.01	180
DEC 30 2003-JAN 06 2004	2.5	1.26	3.54	<.01	44
JAN 27-FEB 03	.2	.39	2.09	<.01	250
FEB 03-10	.8	.49	2.46	<.01	260
FEB 17-24	.8	1.31	3.67	<.01	46
FEB 24-MAR 02	.3	.48	.382	<.01	770
MAR 02-09	.2	.21	.437	<.01	640
APR 06-13	.9	.93	1.64	<.01	1,900
APR 13-20	2.1	1.16	1.86	<.01	120
APR 20-27	1.2	.94	1.50	<.01	3,400
APR 27-MAY 04	2.7	1.57	2.20	<.01	310
MAY 11-18	1.7	1.18	1.08	.12	2,500
MAY 18-25	1.0	1.03	1.12	<.01	1,600
JUN 01-08	1.5	1.63	2.52	<.01	1,200
JUN 08-15	.9	.81	1.31	<.01	1,200
JUN 15-22	.4	.49	.721	<.01	9,000
JUN 22-29	.9	1.01	2.38	<.01	440
JUN 29-JUL 06	.5	.77	.774	<.01	2,400
JUL 13-20	1.4	1.49	2.22	<.01	900
JUL 20-27	.6	.59	1.24	<.01	2,100
AUG 03-10	.3	.25	.441	<.01	5,000
AUG 10-17	.8	.84	1.30	<.01	580
AUG 17-24	.9	1.21	3.02	<.01	46
AUG 31-SEP 04	1.2	.83	1.19	<.01	130
SEP 14-21	1.9	<.02	1.82	<.01	35

KANSAS RIVER BASIN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Precip-itation total, in/wk (00046)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc-tance, wat unf lab, uS/cm 25 degC (90095)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Chlor-ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)
SEP 21-28	2.30	5.3	5.5	5	6	.07	.01	.01	.0	.02	15	M	.5
SEP 28-OCT 05	.09	5.2	5.8	9	8	.22	.03	.05	.0	.01	4	.1	.9

Date	Ammonia water, fltrd, mg/L (71846)	Nitrate water, fltrd, mg/L (71851)	Phos-phate, water, fltrd, mg/L (00653)	Sample volume, mL (32002)
SEP 21-28	.29	.533	<.01	4,100
SEP 28-OCT 05	.54	1.39	<.01	150

OSAGE RIVER BASIN

373903094481300 FARLINGTON STATE FISH HATCHERY, KS

(National Atmospheric Deposition Program/National Trends Network station)

LOCATION.--Lat 37°39'03", long 94°48'13", in NW ¼ NW ¼ SE ¼ sec.32, T.27 S., R.24 E., Crawford County, Hydrologic Unit 10290104, 3 mi northwest of Farlington, and 0.5 mi northwest of Farlington Lake.

PERIOD OF RECORD.--March 1984 to current year.

INSTRUMENTATION.--The sample collector is an Aerochem Metrics Wet/Dry Precipitation Collector and a recording rain gage (with event recorder).

REMARKS.--Chemical analyses of rainfall collected in wet-dry automatic sampler. Data collected in cooperation with Kansas Department of Wildlife and Parks. Chemical analyses from National Atmospheric Deposition Program, National Trends Network Analytical Laboratory. If a sufficient volume of sample is collected, specific conductance and pH are measured in the field before the composite sample is sent in for analysis.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Precip-itation total, in/wk (00046)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc-tance, wat unf lab, uS/cm 25 degC (90095)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Chlor-ide, water, fltrd, mg/L (00940)
OCT 07-14	.86	4.7	4.8	15	14		.26	.02	.02	.0	.01	3	M
OCT 14-21	.05	5.9	6.7	30	30	8	2.90	.12	.08	.0	.12	3	.2
OCT 21-28	.03	--	7.0	53	--	10	3.58	.25	.30	.1	.38	7	--
OCT 28-NOV 04	.03	--	5.3	36	--	5	1.65	.16	.06	.2	.82	27	1.3
NOV 04-11	.04	5.4	6.5	31	32	7	2.41	.16	.08	.1	.54	15	.7
NOV 11-18	2.45	4.9	5.1	6	6		.04	.01	.01	.1	.05	44	.1
NOV 18-25	.51	5.6	6.2	12	12	2	.58	.08	.05	.2	.51	37	.8
DEC 02-09	.72	4.6	4.8	11	12		.18	.02	.01	.0	.04	14	.1
DEC 09-16	2.61	5.1	5.4	6	7		.21	.01	.03	.0	.06	18	.1
DEC 16-23	1.21	4.8	4.9	10	10		.14	.01	.02	.1	.08	30	.1
DEC 23-30	.74	4.9	5.2	10	11		.22	.02	.03	.1	.13	30	.2
DEC 30 2003-JAN 06 2004	.09	5.7	6.5	24	25	4	1.56	.12	.17	.1	.58	21	.7
JAN 13-20	1.22	5.4	6.6	11	12	3	.14	.58	1.14	.0	.01	.0	M
JAN 20-27	.28	4.6	4.7	13	14		.14	.01	.01	.0	.03	13	.1
JAN 27-FEB 03	.10	4.2	4.3	34	35		.24	.02	.03	.1	.10	22	.1
FEB 03-10	.75	4.8	4.8	8	9		.08	.01	.01	.0	.01	12	M
FEB 17-24	.03	--	7.4	52	--	19	6.78	.42	.54	.1	1.16	12	.5
FEB 24-MAR 02	.24	5.6	6.4	9	9	2	.63	.04	.03	.1	.23	22	.4
MAR 02-09	3.26	4.9	5.1	6	6		.06	.01	.01	.1	.09	46	.2
MAR 09-16	.40	5.0	5.9	11	13		.12	.01	.01	.0	.01	8	M
MAR 23-30	1.98	5.3	5.7	7	7		.18	.03	.03	.1	.22	43	.3
APR 06-13	.85	5.9	6.4	13	13	2	.74	.06	.04	.0	.01	1	M
APR 13-20	.09	6.6	7.1	70	70	18	6.72	.36	.27	.2	1.87	18	2.6
APR 20-27	3.33	5.2	5.3	11	10		.27	.04	.04	.1	.17	30	.2
APR 27-MAY 04	.90	--	5.7	8	--	1	.39	.03	.03	.0	.10	16	.1
MAY 04-11	.03	--	6.8	30	--	10	3.74	.16	.10	.1	.78	14	1.0
MAY 11-18	2.43	5.0	5.0	10	9		.18	.02	.02	.1	.09	26	.1

OSAGE RIVER BASIN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L (71846)	Nitrate water, fltrd, mg/L (71851)	Phos-phate, water, fltrd, mg/L (00653)	Sample volume, mL (32002)
OCT 07-14	1.7	.56	1.49	<.01	1,400
OCT 14-21	4.2	1.16	5.22	<.01	86
OCT 21-28	--	3.12	--	<.03	46
OCT 28-NOV 04	5.3	1.86	6.11	<.01	66
NOV 04-11	5.1	1.18	4.19	<.01	76
NOV 11-18	.6	.19	.341	<.01	4,200
NOV 18-25	1.5	.59	1.36	<.01	940
DEC 02-09	1.1	.24	1.02	<.01	1,300
DEC 09-16	.6	.08	.791	<.01	4,400
DEC 16-23	1.1	.26	.796	<.01	2,100
DEC 23-30	1.5	.40	.608	<.01	1,300
DEC 30 2003-JAN 06 2004	3.3	1.11	3.58	<.01	150
JAN 13-20	.5	.04	.600	.04	2,000
JAN 20-27	1.1	.28	1.34	<.01	530
JAN 27-FEB 03	1.9	.83	4.67	<.01	170
FEB 03-10	.5	.13	.918	<.01	1,400
FEB 17-24	5.5	.80	2.62	<.01	59
FEB 24-MAR 02	1.0	.38	.524	<.01	410
MAR 02-09	.6	.15	.378	<.01	6,000
MAR 09-16	1.5	1.06	1.46	<.01	650
MAR 23-30	.9	.38	.775	<.01	3,400
APR 06-13	1.7	.90	1.67	<.01	1,400
APR 13-20	6.3	2.01	6.99	.01	160
APR 20-27	1.3	.44	1.15	<.01	5,700
APR 27-MAY 04	1.0	.35	1.15	<.01	1,600
MAY 04-11	3.2	.45	3.76	<.01	47
MAY 11-18	1.0	.29	.900	<.01	4,200

OSAGE RIVER BASIN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Precip-itation total, in/wk (00046)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc-tance, wat unf lab, uS/cm 25 degC (90095)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Chlor-ide, water, fltrd, mg/L (00940)
MAY 18-25	.06	5.7	5.7	28	28	6	2.16	.15	.12	.1	.56	17	.7
MAY 25-JUN 01	1.56	5.9	6.2	8	8	1	.40	.04	.07	.1	.16	21	.2
JUN 08-15	3.55	5.3	5.4	7	7		.22	.03	.03	.1	.15	32	.2
JUN 15-22	3.34	5.8	6.3	8	8	2	.69	.03	.03	.0	.03	4	.1
JUN 22-29	.41	5.1	5.9	11	11		.36	.02	.07	.0	.04	7	.1
JUN 29-JUL 06	2.95	5.0	5.0	8	8		.20	.01	.02	.0	.04	14	.1
JUL 06-13	.69	4.9	4.9	10	9		.20	.02	.02	.0	.08	22	.1
JUL 13-20	--	6.2	6.8	20	20	3	1.18	.09	.07	.1	.22	13	.3
JUL 20-27	--	5.4	5.6	11	11	2	.53	.04	.05	.0	.08	10	.1
JUL 27-AUG 03	--	4.7	4.8	10	10		.10	.01	.01	.0	.01	4	M
AUG 03-10	.20	5.4	5.7	11	12	1	.42	.03	.04	.0	.04	6	.1
AUG 10-17	.21	5.4	5.5	13	12	2	.86	.03	.02	.0	.01	1	.1
AUG 17-24	.88	5.0	5.0	11	11		.35	.03	.02	.0	.11	20	.2
AUG 24-31	1.17	5.2	5.2	8	7		.32	.03	.02	.0	.11	20	.2
AUG 31-SEP 07	1.12	5.3	5.5	4	4		.08	.01	.01	.0	.01	8	M
SEP 14-21	.73	5.8	6.8	9	9	2	.84	.04	.02	.0	.10	9	.1
SEP 24-OCT 05	.02	--	7.0	39	--	11	4.14	.15	.12	.0	.07	1	.2

OSAGE RIVER BASIN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L (71846)	Nitrate water, fltrd, mg/L (71851)	Phos-phate, water, fltrd, mg/L (00653)	Sample volume, mL (32002)
MAY 18-25	3.8	.96	4.95	<.01	120
MAY 25-JUN 01	1.1	.43	.840	<.01	2,600
JUN 08-15	1.8	.24	1.44	<.01	6,100
JUN 15-22	.9	.35	1.26	<.01	5,700
JUN 22-29	1.4	.85	1.52	<.01	690
JUN 29-JUL 06	.9	.25	.886	<.01	5,100
JUL 06-13	.9	.22	.978	<.01	1,200
JUL 13-20	2.3	1.26	3.37	<.01	520
JUL 20-27	1.4	.48	1.70	<.01	1,000
JUL 27-AUG 03	1.0	.24	.710	<.01	1,100
AUG 03-10	1.2	.70	2.22	<.01	350
AUG 10-17	2.1	.52	1.85	<.01	400
AUG 17-24	1.3	.38	1.36	<.01	1,500
AUG 24-31	.8	.18	1.01	<.01	2,000
AUG 31-SEP 07	.4	.15	.317	<.01	1,900
SEP 14-21	1.3	.30	1.05	<.01	1,300
SEP 24-OCT 05	6.1	1.40	5.70	<.01	38

A

B

C

D

L

M

N

Conversion Factors

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter (mm)
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^{0}	kilometer (km)
	Area	
acre	4.047×10^{3}	square meter (m^2)
	4.047×10^{-1}	square hectometer (hm^2)
	4.047×10^{-3}	square kilometer (km^2)
square mile (mi^2)	2.590×10^{0}	square kilometer (km^2)
	Volume	
gallon (gal)	3.785×10^{0}	liter (L)
	3.785×10^{-3}	cubic meter (m^3)
	3.785×10^{0}	cubic decimeter (dm^3)
million gallons (Mgal)	3.785×10^{3}	cubic meter (m^3)
	3.785×10^{-3}	cubic hectometer (hm^3)
cubic foot (ft^3)	2.832×10^{-2}	cubic meter (m^3)
	2.832×10^{1}	cubic decimeter (dm^3)
cubic-foot-per-second-per-day [(ft^3/s/d]	2.447×10^{3}	cubic meter (m^3)
	2.447×10^{-3}	cubic hectometer (hm^3)
acre-foot (acre-ft)	1.223×10^{3}	cubic meter (m^3)
	1.223×10^{-3}	cubic hectometer (hm^3)
	1.223×10^{-6}	cubic kilometer (km^3)
	Flow rate	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter (L/s)
	2.832×10^{-2}	cubic meter per second (m^3/s)
	2.832×10^{1}	cubic decimeter per second (dm^3/s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m^3/s)
	6.309×10^{-2}	cubic decimeter per second (dm^3/s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second
	4.381×10^{1}	cubic decimeter per second (dm^3/s)
	Mass	
ton, short (2,000 lb)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$°F = (1.8 \times °C) + 32$$