

GROUND-WATER LEVELS IN THE ALLUVIAL AQUIFER
IN EASTERN ARKANSAS, 1989

By Paul W. Westerfield and Carmen R. Baxter

U.S. GEOLOGICAL SURVEY

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ARKANSAS SOIL AND WATER CONSERVATION COMMISSION,
the U.S. SOIL CONSERVATION SERVICE, and
LOCAL CONSERVATION DISTRICTS

Little Rock, Arkansas

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CONVERSION FACTORS

For use of readers who prefer to use metric (International System) units, rather than the inch-pound units used in this report, the following conversion factors may be used:

<u>Multiply inch-pound unit</u>	<u>By</u>	<u>To obtain metric unit</u>
foot (ft)	0.3048	meter (m)

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called "Sea Level Datum of 1929."

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ABSTRACT

This report, prepared by the U.S. Geological Survey in cooperation with the Arkansas Soil and Water Conservation Commission, the U.S. Soil Conservation Service and local Conservation Districts, contains ground-water level measurements of 504 wells that tap the alluvial aquifer in the Quaternary deposits of the Mississippi Alluvial Plain. The measurements were made by district Soil Conservation Service personnel during 1989.

The shallowest prepumping season water levels occurred in Clay, Greene, Independence, Mississippi, Phillips, and Randolph Counties where water levels averaged less than 20 feet below the land surface. The deepest water levels occurred in Arkansas, Lonoke, Poinsett, and Prairie Counties where water levels of more than 100 feet were measured. Water levels in the postpumping season averaged about 2.5 feet lower than during the prepumping season.

INTRODUCTION

This report contains records of water-level measurements made in 504 wells that tap the aquifer in the Quaternary deposits of the Mississippi Alluvial Plain, herein referred to as the alluvial aquifer. It is prepared as part of the East Arkansas Water Conservation Project, a cooperative effort with the Arkansas Soil and Water Conservation Commission, the U.S. Soil Conservation Service, and local Conservation Districts, to better define the hydrologic characteristics of the alluvial aquifer in eastern Arkansas. In addition to the data included in this report, the U.S. Geological Survey, in cooperation with the Arkansas Geological Commission, has maintained for several years a network of monitor wells measured each spring before the pumping season. Recent publications of the U.S. Geological Survey concerning the alluvial aquifer in eastern Arkansas are listed in the selected references section of this report.

The data in this report were collected by district Soil Conservation Service personnel with coordination provided by the U.S. Geological Survey. The water-level data included in this report are stored in the U.S. Geological Survey's WATSTORE computerized ground-water file system.

The water levels in table 1 reflect the prepumping and postpumping conditions during 1989. The shallowest prepumping water levels occurred in Clay, Greene, Independence, Mississippi, Phillips, and Randolph Counties where water levels averaged less than 20 feet below the land surface. The deepest water levels occurred in Arkansas, Lonoke, Poinsett, and Prairie Counties where water levels of more than 100 feet below land surface were measured; water levels in these counties averaged from 64.9 to 91.9 feet below land surface. Water levels in the postpumping season averaged about 2.5 feet lower than during the prepumping season.

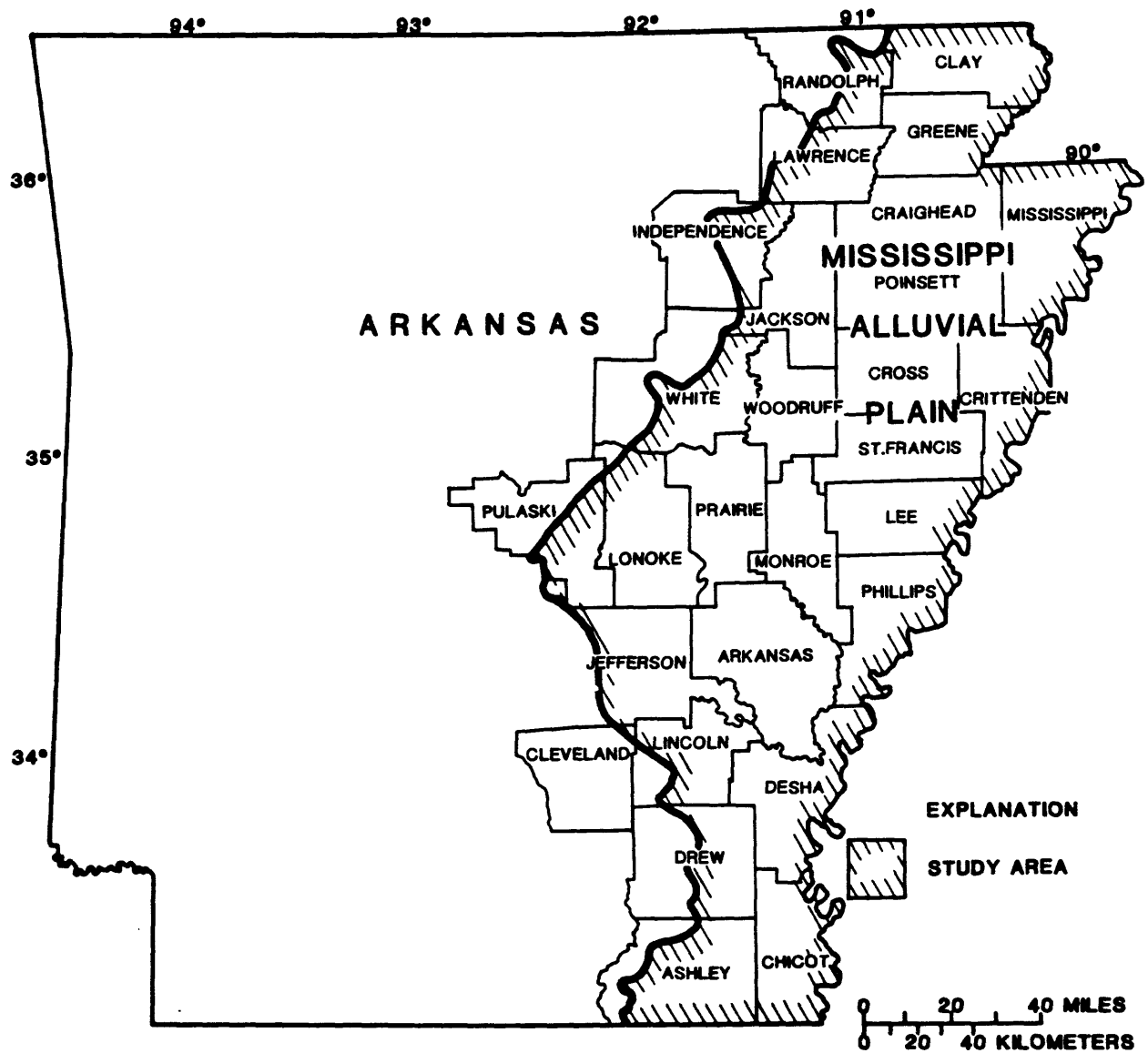


Figure 1.--Location of study area.

DESCRIPTION OF HEADINGS

Table headings used in the report are defined as follows:

Location: An explanation is given on pages 5 and 6.

Altitude of land surface: Altitude of the land surface at the well, in feet above sea level. The altitudes were estimated from topographic maps and are accurate to within 2.5 feet.

Depth to water below land surface: Measured depth to water, in feet below or above (-) land surface. Measurements made with a chalked steel tape are reported to the nearest 0.1 foot and are accurate to within 0.05 foot. Measurements made with a pressure gauge are reported to the nearest foot and are accurate to the nearest 0.5 foot.

Date: The date of the measurement. If the day is unknown, the month followed by -00 is listed in this report.

Altitude of water level: Altitude of water level, in feet, above sea level.

Net change: Difference in feet between the spring and fall 1989 depth to water below land surface. A negative value indicates a decline in the water level in the well during the period.

WELL-NUMBERING SYSTEM

The well-numbering system used in this report is based upon the location of the wells according to the Federal land survey used in Arkansas. The component parts of a well number are the township number, the range number, the section number, and three letters which indicate, respectively, the quarter section, the quarter-quarter section, and the quarter-quarter-quarter section in which the well is located. The letters are assigned counterclockwise, beginning with "A" in the northeast quarter or quarter-quarter or quarter-quarter-quarter section in which the well is located. For example, well 01S03W04BBD16 (fig. 2) is located in Township 1 South, Range 3 West, and in the southeast quarter of the northwest quarter of the northwest quarter of section 4. This well is the 16th well in this quarter-quarter-quarter section of section 4 from which data were collected.

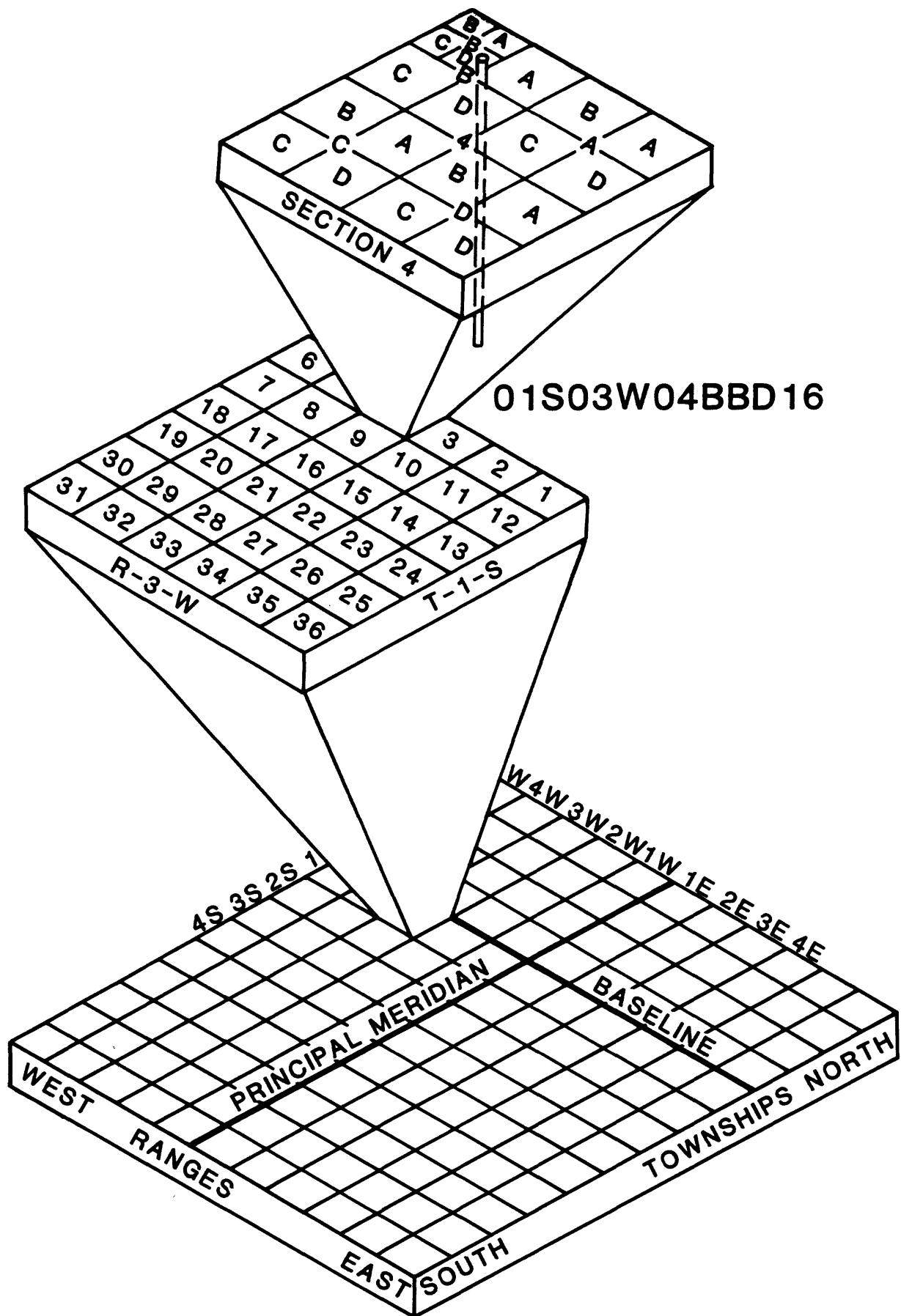


Figure 2.--Well-numbering system.

SELECTED REFERENCES

- Edds, Joe, 1981, Ground-water levels in Arkansas, spring 1981: U.S. Geological Survey Open-File Report 81-114, 52 p.
- 1982, Ground-water levels in Arkansas, spring 1982: U.S. Geological Survey Open-File Report 82-852, 51 p.
- 1983, Ground-water levels in Arkansas, spring 1983: U.S. Geological Survey Open-File Report 83-268, 49 p.
- 1984, Ground-water levels in Arkansas, spring 1984: U.S. Geological Survey Open-File Report 84-711, 58 p.
- Edds, Joe, and Fitzpatrick, D.J., 1984, Maps showing altitude of the potentiometric surface and changes in water levels of the alluvial aquifer in eastern Arkansas, spring 1983: U.S. Geological Survey Water-Resources Investigations Report 84-4264, 1 sheet.
- Edds, Joe, and Remsing, L.R., 1986, Ground-water levels in Arkansas, spring 1986: U.S. Geological Survey Open-File Report 86-406W, 62 p.
- Edds, Joe, and Spencer, J.L., 1985, Ground-water levels in Arkansas, spring 1985: U.S. Geological Survey Open-File Report 85-478, 60 p.
- Freiwald, D.A., and Plafcan, Maria, 1987, Ground-water levels in Arkansas, spring 1987: U.S. Geological Survey Open-File Report 87-459, 66 p.
- Holland, T.W., 1987, Use of water in Arkansas, 1985: Arkansas Geological Commission Water Resources Summary No. 16, 27 p.
- Plafcan, Maria, 1985, Ground-water levels in the alluvial aquifer in eastern Arkansas, 1984: U.S. Geological Survey Open-File Report 85-569, 26 p.
- 1986, Ground-water levels in the alluvial aquifer in eastern Arkansas, 1985: U.S. Geological Survey Open-File Report 86-242, 29 p.

----- 1987, Ground-water levels in the alluvial aquifer in eastern Arkansas, 1986: U.S. Geological Survey Open-File Report 87-545, 31 p.

Plafcan, Maria, and Edds, Joe, 1986, Water level and saturated thickness maps of the alluvial aquifer in eastern Arkansas, 1984: U.S. Geological Survey Water-Resources Investigations Report 86-4014, 1 sheet.

Plafcan, Maria, and Fugitt, D.T., 1987, Water-level maps of the alluvial aquifer in eastern Arkansas, 1985: U.S. Geological Survey Water-Resources Investigations Report 86-4178, 1 sheet.

Plafcan, Maria, and Remsing, L.M., 1989, Water-level maps of the Mississippi River Valley alluvial aquifer in eastern Arkansas, 1986: U.S. Geological Survey Water-Resources Investigations Report 88-4067, 1 sheet.

Westerfield, P.W., 1989, Ground-water levels in the alluvial aquifer in eastern Arkansas, 1987: U.S. Geological Survey Open-File Report 89-64, 32 p.

----- 1990, Ground-water levels in Arkansas, spring 1990: U.S. Geological Survey Open-File Report 90-377, 62 p.

----- 1990, Water-level maps of the Mississippi River Valley alluvial aquifer in eastern Arkansas, 1987: U.S. Geological Survey Water-Resources Investigations Report 90-4089, 1 sheet (in press).

Westerfield, P.W., and Baxter, C.R., 1990, Ground-water levels in the alluvial aquifer in eastern Arkansas, 1988: U.S. Geological Survey Open-File Report 90-383, 32 p.

Westerfield, P.W., and Gonthier, G.J., 1990, Ground-water levels in Arkansas, spring 1989: U.S. Geological Survey Open-File Report 90-121, 69 p.

Westerfield, P.W., and Plafcan, Maria, 1988, Ground-water levels in Arkansas, spring 1988: U.S. Geological Survey Open-File Report 88-706, 72 p.

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989

Location	Land owner	Spring 1989			Fall 1989			Net Change (feet)
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)		
ARKANSAS COUNTY								
02S04W20AAB1	K. Maier	205	100.0	04-24	105	--	--	--
03S04W18CCA1	Senko Farms	210	110.0	04-24	100	--	--	--
03S04W19AB	Senko Farms	208	104.0	04-24	104	--	--	--
03S04W31CDA1	Hennenbaum	195	100.0	04-24	95	97.0	10-24	98
04S04W14CCC1	Glen Stone	202	106.0	04-24	96	107.0	10-24	95
05S03W16ABB1	Allen Bros.	196	106.0	04-24	90	106.0	10-31	90
05S04W04BAA1	Marion Hartz	186	91.0	04-24	95	95.0	11-02	91
05S04W14AAD1	A.C. Smith	186	92.0	04-24	94	96.0	11-02	90
05S04W34BAC1	Mark Berry	191	71.0	04-24	120	79.0	11-02	112
06S02W03ABA1	J.W. Hargrove	187	76.0	04-24	111	73.0	11-02	114
07S03W10ACD1	Pat Hackney	187	55.0	04-24	132	47.0	11-02	140
ASHLEY COUNTY								
16S04W21AAC1	Craig Shackelford	130	31.4	04-20	99	30.0	10-11	100
16S05W01ACD1	Clyde Russell	125	18.4	04-20	107	--	--	--
17S05W01AAD1	Joel Newcomb	122	13.4	04-20	109	14.9	10-11	107
18S04W23DDD1	Henry Morschheimer	103	18.3	04-20	85	21.5	10-13	82
18S05W11CCD1	Billy Scroggins	118	20.0	04-20	98	20.1	10-11	98
19S04W14BBB1	Larry Holland	107	20.8	04-24	86	24.0	10-19	83
								1.4
								--
								1.5
								3.2
								.1
								3.2

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989			Net Change (feet)
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)		
ASHLEY COUNTY--Continued								
19S05W08ACA1	Steven Harvey	111	15.0	04-20	96	15.6	10-13	95 - 0.6
19S05W16ABB1	John Currie, Jr.	116	23.5	04-20	93	20.8	10-13	95 2.7
19S05W22DCD1	Gerard Mountjoy	107	21.2	04-24	86	20.8	10-13	86 .4
CHICOT COUNTY								
13S03W27AAA1	Bobby Braswell	138	32.0	04-00	106	32.0	10-00	106 .0
14S02W09BD	J. Golden	135	29.0	04-00	106	28.0	10-00	107 1.0
14S02W18BBA1	B.F.W.	130	26.0	04-00	104	25.0	10-00	105 1.0
15S01W31ADD1	Ralph Baskett	120	18.0	04-00	102	19.0	10-00	101 - 1.0
15S02W20DDC1	Bruce Leggitt	125	24.0	04-00	101	25.0	10-00	100 - 1.0
15S03W13ACC1	Bill Keller	125	23.0	04-00	102	22.0	10-00	103 1.0
16S01W12DDB1	Joe Gates	110	21.0	04-00	89	22.0	10-00	88 - 1.0
16S03W11ABA1	Lewis Howell	115	25.0	04-00	90	24.0	10-00	91 1.0
17S03W18CBC1	Gus Pugh	115	30.0	04-00	85	29.0	10-00	86 1.0
17S03W28ACC1	R.H. Tuggle	105	22.0	04-00	83	23.0	10-00	82 - 1.0
18S01W33BDA1	Alvin Meyer, Jr.	115	15.0	04-00	100	19.0	10-00	96 - 4.0
19S02W28DAC1	Major Winters	125	40.0	04-00	85	37.0	10-00	88 3.0
CLAY COUNTY								
19N04E11DAA1	Joe Dodd	280	15.0	03-15	265	15.5	10-03	265 - .5

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989				Fall 1989			
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Date	Altitude of water level (feet)	Depth to water below land surface	Date	Altitude of water level (feet)	Net Change (feet)
CLAY COUNTY--Continued									
19N06E18DBC1	Leroy Cruce	297	22.0	03-15	275	25.0	10-03	272	- 3.0
19N07E25BCB1	Lynn Wimberley	268	12.5	03-15	256	19.0	10-02	249	- 6.5
19N08E08DCA1	Ropac	263	4.5	03-15	259	7.5	10-02	256	- 3.0
19N09E19CDC1	Frank Thrasher	265	3.5	03-15	262	8.7	10-02	256	- 5.2
20N04E03AAC1	Quinn Brown	290	13.0	03-15	277	16.4	10-03	274	- 3.4
20N05E15CAA1	Odell Richardson	291	22.0	03-15	269	21.6	10-03	269	.4
20N05E22CAD1	Wallace Lewallen	290	19.5	03-15	271	22.0	10-03	268	- 2.5
20N06E09BBA1	Leon Cates	290	11.0	03-15	279	14.2	10-03	276	- 3.2
20N06E28CDD1	Harold Bauschlicher	290	17.0	03-15	273	25.0	10-03	265	- 8.0
20N08E22BDA1	Charles Hollis	279	7.0	03-15	272	11.9	10-02	267	- 4.9
20N09E09ABC1	Jess Hill	279	5.0	03-15	274	12.7	10-03	266	- 7.7
21N03E15CBC1	Joe Lewis	292	7.5	03-15	285	13.0	10-03	279	- 5.5
21N03E36CDC1	O.E. Davis	290	12.0	03-15	278	17.4	10-03	273	- 5.4
21N04E09DAC1	Buel Turner	291	5.4	03-15	286	12.0	10-03	279	- 6.6
21N06E09BBB1	John Holifield	292	3.5	03-15	289	11.3	10-03	281	- 7.8
21N07E01DCD1	David Lawrence	303	7.5	03-15	296	12.7	10-03	290	- 5.2
21N07E19BDA1	Junior Allman	295	13.0	03-15	282	19.0	10-02	276	- 6.0
21N08E03CCD1	Ricky Jones	310	17.5	03-15	293	26.0	10-02	284	- 8.5
21N08E03CDB1	Charles Foster	308	12.0	03-15	296	10.5	10-02	298	- 1.5
CRAIGHEAD COUNTY									
13N01E03AAA1	Joy Ledbetter	240	40.0	03-30	200	42.0	10-11	198	- 2.0

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989				Fall 1989			
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)	Net Change (feet)		
		Feet	Date		Feet	Date			
CRAIGHEAD COUNTY--Continued									
13N01E03AAA2	Joy Ledbetter	240	40.3	03-30	200	41.1	10-11	199	- 0.8
13N01E18D	Jimmy Denton	234	31.0	04-10	203	33.0	10-11	201	- 2.0
13N01E21CA	Ledbetter/Gossage	240	53.0	03-30	187	57.0	10-11	183	- 4.0
13N02E02AAB1	Mrs. Chas. Bishop	251	70.4	03-30	181	71.5	10-17	180	- 1.1
13N02E03AAA1	Freeze/Waddill	250	70.1	03-30	180	73.0	10-11	177	- 2.9
13N03E23CDA1	Earl Hill	249	73.0	03-30	176	74.8	10-17	174	- 1.8
13N03E28CDA1	H. Clark/Adams	250	84.4	03-30	166	86.1	10-17	164	- 1.7
13N04E15DCC1	W.R. Carter	230	20.2	03-30	210	21.5	10-19	209	- 1.3
13N04E26BCC1	R. Thurman	225	21.4	03-30	204	22.3	10-17	203	- .9
13N05E06DCC1	Mildred Morrison	229	16.3	03-31	213	17.3	10-19	212	- 1.0
13N06E03ACB1	Noel Eggers	223	2.6	03-31	220	6.9	10-19	216	- 4.3
13N06E21CBD1	Ed Ball	222	3.5	03-31	219	8.0	10-19	214	- 4.5
13N07E22DBA1	Herbert Wood	220	4.0	03-31	216	9.4	10-19	211	- 5.4
13N07E35ADD1	H. Adams, Jr.	221	6.6	03-31	214	12.7	10-19	208	- 6.1
14N01E03ACB1	Wiggins	249	39.0	03-31	210	40.0	10-11	209	- 1.0
14N01E10BAB1	Wayne Wiggins	246	35.1	03-31	211	36.7	10-11	209	- 1.6
14N01E31DAB1	Raymond Crider	251	43.8	03-30	207	45.9	10-11	205	- 2.1
14N02E15DDA1	Donald Williams	255	58.2	03-30	197	60.3	10-19	195	- 2.1
14N02E16BCD1	Larry Burns	250	49.1	03-30	201	52.0	10-17	198	- 2.9
14N02E22AAD1	Williams	255	58.0	03-30	197	60.3	10-17	195	- 2.3
14N05E29BAB1	Hellsboro Plaza, Inc	236	17.8	03-30	218	18.4	10-19	218	- .6
14N07E07BBC1	B. McFarlin	230	2.7	03-31	227	7.9	10-19	222	- 5.2
15N02E01CAB1	W. Barnes	265	20.4	03-30	245	21.8	10-11	243	- 1.4

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989			Net Change (feet)
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)		
CRAIGHEAD COUNTY--Continued								
15N02E12ABC1	S.W. Knight	250	19.6	03-31	20.5	10-11	230	- 0.9
15N05E15DDB1	Randolph Steele	253	22.0	03-31	25.4	10-19	228	- 3.4
15N05E32ABB1	Ray Dooley	252	17.4	03-31	23.4	10-19	229	- 6.0
15N06E04ABB1	Poley Schug	239	4.8	03-31	9.8	10-19	229	- 5.0
15N06E09DAA1	A.D. Schug	239	--	--	9.6	10-19	229	--
15N07E10DA	Maurice Keich, Trust	235	6.6	03-31	10.9	10-19	224	- 4.3
15N07E21DAB1	Urell Dudley	236	4.2	03-31	11.4	10-19	225	- 7.2
CRITTENDEN COUNTY								
05N07E08DDA1	Billy West	206	24.0	04-07	22.7	09-27	183	1.3
05N07E34BDB1	Carlson	205	16.5	03-24	17.5	09-27	188	- 1.0
06N07E14BAA1	C.L. Eubanks	211	18.4	03-15	20.0	09-25	191	- 1.6
07N06E08DAD1	Billy Rogers	210	24.0	03-24	27.1	09-25	183	- 3.1
07N08E17BBC1	L. McCuiston	212	16.5	03-24	13.7	09-28	198	- 2.8
08N06E01DCC1	Sam Hatley	215	27.0	03-09	32.9	09-25	182	- 5.9
08N06E06DDA1	George Watson	214	27.2	03-15	27.8	09-28	186	- .6
08N07E32DAD1	Joe Marotti	215	22.6	03-09	24.0	09-28	191	- 1.4
09N07E02CCA1	Ed Young	225	31.1	03-15	28.0	09-19	197	3.1
09N08E04CCB1	Joe Boone	216	18.9	03-20	19.6	09-19	196	- .7
CROSS COUNTY								
06N02E10CDA1	V.A. Pervin	200	52.0	04-24	52.0	10-23	148	.0

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989				Fall 1989			
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Date	Altitude of water level (feet)	Depth to water below land surface	Date	Altitude of water level (feet)	Net Change (feet)
CROSS COUNTY--Continued									
06N02E12AAA1	Hoyt Neill	235	65.0	04-24	170	70.5	10-23	165	- 5.5
06N04E01BBB1	Lucy Billingsley	205	30.0	04-21	175	33.0	10-23	172	- 3.0
06N05E02AAA1	M & W Farms	205	30.0	04-21	175	32.0	10-23	173	- 2.0
07N01E05DCB1	W.E. Plyler	215	65.0	04-24	150	58.0	10-23	157	- 7.0
07N01E06CAA1	Sonny Cox	220	49.0	04-24	171	62.0	10-23	158	- 13.0
07N01E33BBA1	Martin Ridley	215	53.0	04-24	162	55.0	10-23	160	- 2.0
07N02E04DCD1	Randy Boeckmann	225	50.0	04-24	175	52.5	10-23	173	- 2.5
07N02E10ABB1	E.R. Rolfe	225	66.0	04-24	159	69.0	10-23	156	- 3.0
07N02E12BBC1	David Holloman	225	64.5	04-24	161	67.0	10-23	158	- 2.5
07N02E15DAA1	David Tyer	218	66.0	04-24	152	68.5	10-23	150	- 2.5
07N02E29DDC1	Martha Ellis Estate	220	56.0	04-24	164	58.0	10-23	162	- 2.0
07N03E05AAD1	Gloria Borell	255	95.0	04-24	160	96.0	10-23	159	- 1.0
07N04E03BDA1	Lulynne Hickey	205	20.0	04-21	185	--	--	--	--
07N04E04DBB1	Glen Eaton	201	21.0	04-21	180	24.0	10-23	177	- 3.0
07N04E07AAA1	Timmy Wilkins	215	33.0	04-21	182	--	--	--	--
07N05E02AAB1	O.C. Houser	210	30.0	04-21	180	29.0	10-23	181	- 1.0
07N05E09DBC1	C.W. Martin	210	30.0	04-21	180	32.0	10-23	178	- 2.0
07N05E25ABA1	H.F. Sloan	205	25.0	04-21	180	28.0	10-23	177	- 3.0
08N01E02CDD1	Ms. George Wisemore	227	72.0	04-25	155	64.0	10-23	163	- 8.0
08N01E16DBB1	Myrtle Kemp	225	71.0	04-24	154	70.0	10-23	155	- 1.0
08N01E17CAD1	Una Cooper	220	--	--	--	61.0	10-23	159	--
08N02E12DCC1	Donald Rolland Estate	230	72.0	04-24	158	79.0	10-23	151	- 7.0
08N02E17BAA1	L.V. Diebold	225	70.5	04-24	155	72.0	10-23	153	- 1.5

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Altitude of land surface (feet above sea level)	Spring 1989			Fall 1989			Net Change (feet)
			Depth to water below land surface	Altitude of water level	Date	Depth to water below land surface	Altitude of water level	Date	
			Feet	(feet)		Feet	(feet)		
CROSS COUNTY--Continued									
08N04E27ABB1	Kenneth Thompson	205	20.0	04-21	185	24.0	181	10-23	- 4.0
09N01E04ACD1	Virginia Rienhart	225	69.5	04-24	156	73.0	152	10-23	- 3.5
09N01E33BBA1	Rebecca Fisher	225	67.0	04-24	158	74.0	151	10-23	- 7.0
09N01E36AAB1	Curtis Hagler	225	69.5	04-24	156	77.0	148	10-23	- 7.5
09N02E17AAB1	Sam Vaughn	232	85.0	04-24	147	94.0	138	10-23	- 9.0
09N02E20AAA1	Fay Imboden	230	77.0	04-24	153	79.0	151	10-23	- 2.0
09N02E30CBB1	Larry Volk	225	68.5	04-24	157	69.0	156	10-23	- .5
09N03E03ACC1	Lou Stadler	250	92.0	04-25	158	98.0	152	10-23	- 6.0
09N03E17CDD1	Millard Carter	245	84.0	04-24	161	86.5	159	10-23	- 2.5
09N04E01ADD1	Delta Farm	205	15.0	04-21	190	23.0	182	10-23	- 8.0
09N04E03DBB1	John Brown	215	18.0	04-21	197	25.0	190	10-23	- 7.0
09N04E33ADB1	Anne Quessenberry	205	18.0	04-21	187	24.0	181	10-23	- 6.0
09N05E10ACC1	John Collier	210	17.0	04-21	193	23.0	187	10-23	- 6.0
09N05E32BDB1	Elizabeth Johnston	210	25.0	04-21	185	27.0	183	10-23	- 2.0
DESHA COUNTY									
07S01E19ABA1	Brooks Griffin	154	10.5	04-14	144	14.4	140	10-25	- 3.9
09S01W08BDA1	Adcock	151	17.5	04-25	134	19.0	132	10-31	- 1.5
09S01W15CBB1	Baxter	152	18.0	04-25	134	25.0	127	10-31	- 7.0
09S02W17CBC1	Beegle	153	24.0	04-25	129	24.0	129	10-31	.0

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989				Fall 1989			
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Feet	Date	Altitude of water level (feet)	Depth to water below land surface	Date	Altitude of water level (feet)
DESHA COUNTY--Continued									
09S02W20DAC1	Spainhouer	152	15.0	04-25	137	17.0	10-31	135	- 2.0
09S03W35CCA1	Shea	155	30.0	04-25	125	33.0	10-31	122	- 3.0
09S03W35DCB1	Hopmann	156	30.5	04-25	126	--	--	--	--
09S04W02CDA1	Walt Bros.	163	18.0	04-25	145	35.0	10-31	128	- 17.0
10S01W23DBC1	Simpson	146	7.0	04-25	139	13.0	10-31	133	- 6.0
10S02W11ADD1	Singleton	148	20.0	04-25	128	23.0	10-31	125	- 3.0
10S02W23DBC1	Baxter	153	24.0	04-25	129	23.5	10-31	130	.5
10S04W08BDA1	Stimson	162	18.0	04-25	144	26.0	10-31	136	- 8.0
10S04W11BBB1	Pickens	161	30.0	04-25	131	29.0	10-31	132	1.0
10S04W16CCA1	Pickens	159	16.0	04-25	143	20.0	10-31	139	- 4.0
11S02W15BAD1	Tucker (Wolfe Est.)	148	29.0	04-25	119	32.0	10-31	116	- 3.0
11S02W31DAA1	Johnson	147	27.5	04-25	120	28.0	10-31	119	- .5
12S03W30BCD1	Powell	141	22.5	04-25	119	23.0	10-31	118	- .5
13S02W05CDC1	Gilliam	146	38.5	04-25	108	41.0	10-31	105	- 2.5
13S02W05CDD1	Gilliam	146	34.5	04-25	112	36.0	10-31	110	- 1.5
13S02W32DBD1	Deltic	135	32.0	04-25	103	32.0	10-31	103	.0
13S03W11CAB1	McDonald	142	37.5	04-25	105	38.0	10-31	104	- .5
DREW COUNTY									

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989			Net Change (feet)	
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)			
DREW COUNTY--Continued									
12S04W25ABC1	Powell	140	22.0	04-25	118	23.0	10-31	117	- 1.0
12S04W25DBB1	Houge	147	22.5	04-24	125	25.0	10-24	122	- 2.5
12S05W04AAB1	R.D. Jones	182	31.8	04-20	150	39.0	10-24	143	- 7.2
13S04W09ACD1	Tabor	145	16.2	04-24	129	15.0	10-24	130	1.2
13S04W29CAB1	Ogles	135	9.5	04-25	126	10.0	10-24	125	- .5
13S06W21DAA1	Reinhart	207	69.5	04-25	138	72.0	10-24	135	- 2.5
14S04W03ADD1	Pamplin	149	21.5	04-25	128	21.0	10-24	128	.5
14S04W05CBA1	Henke	134	9.0	04-25	125	15.0	10-24	119	- 6.0
14S04W08CAD1	Bates	130	7.8	04-25	122	10.0	10-24	120	- 2.2
14S04W22CAA1	Dennington	135	26.0	04-20	109	16.0	10-24	119	10.0
GREENE COUNTY									
16N02E12AAB1	Carl Phillips	260	31.8	03-06	228	33.7	10-24	226	- 1.9
16N05E27DBB1	McLaughlin	285	13.0	04-10	272	21.0	09-26	264	- 8.0
16N06E09AAC1	Williamson	255	33.0	04-11	222	47.0	09-26	208	- 14.0
16N06E21BBA1	Wells	250	20.0	04-10	230	23.8	09-26	226	- 3.8
17N03E28CDB1	Dulaney	260	18.0	04-13	242	20.0	10-04	240	- 2.0
17N03E28DCD1	Gillman	270	22.5	04-12	248	24.0	10-04	246	- 1.5
17N03E29ABB1	Jumper	255	18.0	04-13	237	19.7	10-04	235	- 1.7
17N06E15ABB1	Boggs	263	25.2	04-10	238	31.0	09-26	232	- 5.8

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989					
		Altitude of land surface (feet above sea level)	Depth to water below land surface Feet	Date	Altitude of water level (feet)	Depth to water below land surface Feet	Date			
Altitude of water level (feet)										
Net Change (feet)										
GREENE COUNTY--Continued										
17N06E22CBA1	Frankum	265	27.0	04-10	238	34.0	10-03	231	-	7.0
17N07E03CCC1	Alexander	245	4.0	04-11	241	8.2	10-03	237	-	4.2
17N07E290BB1	Thomas	244	3.0	04-11	241	9.0	10-03	235	-	6.0
18N07E17BAB1	Lewis	260	4.0	04-10	256	8.0	10-10	252	-	4.0
18N08E29CBA1	Hill	250	4.0	04-11	246	7.0	10-03	243	-	3.0
19N04E30DBB1	Daughhettee	276	23.0	04-12	253	25.5	10-03	251	-	2.5
19N05E34BDD1	Lange	282	22.0	04-12	260	26.0	10-04	256	-	4.0
INDEPENDENCE COUNTY										
11N04W02ABB1	Jerry Roberson	237	9.3	03-30	228	22.1	11-27	215	-	12.8
11N04W06ABB1	David Pankey	230	1.8	03-30	228	8.1	11-27	222	-	6.3
12N05W36AAA1	Don Kramer	235	14.3	03-30	221	24.2	11-27	211	-	9.9
14N03W12CCB1	Laverne Dickey	231	.5	04-03	231	9.2	11-27	222	-	8.7
14N03W14CBB1	Jim Barnett	228	-.4	04-03	228	5.8	11-27	222	-	6.2
JACKSON COUNTY										
09N01W15D	M.P. Murphee	222	43.5	03-21	179	45.7	10-01	176	-	2.2

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989				Fall 1989			
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Date	Altitude of water level (feet)	Depth to water below land surface	Date	Altitude of water level (feet)	Net Change (feet)
JACKSON COUNTY--Continued									
09N01W30B	Calvin Fields	210	32.0	03-21	178	33.4	10-11	177	- 1.4
09N02W11C	Peter Guinn	221	10.0	03-28	211	14.0	10-11	207	- 4.0
09N02W32B	B.J. Hardin	224	24.0	03-29	200	25.0	10-11	199	- 1.0
09N02W32B2	B.J. Hardin	227	24.0	03-29	203	25.0	10-11	202	- 1.0
10N01W02C	W.E. Jackson	230	47.0	03-29	183	50.0	10-11	180	- 3.0
10N01W05	Charlie McCartney	227	34.6	03-21	192	36.2	10-10	191	- 1.6
10N01W10A	Johnson Farm	220	43.9	03-21	176	45.6	10-10	174	- 1.7
10N01W14C	J. Winemiller	228	50.0	03-29	178	52.0	10-11	176	- 2.0
10N01W27A	J. Kieffer	225	47.0	03-21	178	50.0	10-10	175	- 3.0
10N02W29	Jack Kent	220	16.0	03-29	204	21.0	10-11	199	- 5.0
10N03W11	Oscar Turner	214	3.0	03-21	211	8.3	10-10	206	- 5.3
10N03W30C	Kenny Falwell	222	14.0	03-29	208	29.8	10-10	192	- 15.8
11N01W25B	Davis Brothers	231	54.0	03-21	177	56.6	10-10	174	- 2.6
11N02W09	Andy Doyle	233	22.1	03-20	211	24.4	10-03	209	- 2.3
11N02W23D	J.D. Huey	226	20.5	03-21	206	20.1	10-11	206	.4
11N03W12D	Haigwood Brothers	227	13.0	03-22	214	23.0	10-11	204	- 10.0
11N03W18C	Rutledge Brothers	218	9.5	03-29	209	16.7	10-10	201	- 7.2
12N01W11B	Joe Edwards	233	26.9	03-20	206	27.8	10-03	205	- .9
12N01W14C	Bill Phillips	233	25.0	03-22	208	28.0	10-11	205	- 3.0
12N01W30C2	Floyd Coleman	226	22.0	03-22	204	28.0	10-11	198	- 6.0
12N01W30CA	Floyd Coleman	232	22.5	03-20	210	28.0	10-11	204	- 5.5
12N01W36	W.R. Loftin	236	38.7	03-20	197	41.8	10-03	194	- 3.1
12N02W19C	Kaneaster Hodges	230	12.0	03-29	218	--	--	--	--

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989			Net Change (feet)
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)		
JACKSON COUNTY--Continued								
13N01W23B	Jim Thomas	243	32.0	03-20	211	33.4	10-03	1.4
13N02W10A	Dale Baughn	247	18.0	03-22	229	18.0	10-11	.0
13N02W22	Holden-Conner	240	15.0	03-20	225	15.4	10-03	.4
13N02W34C	James Young	240	13.0	03-22	227	15.0	10-11	2.0
13N03W15	Taylor Estate	235	8.1	03-20	227	18.1	10-04	10.0
13N03W36	S. Graham	235	11.8	03-20	223	15.6	10-11	3.8
14N01W01C	Paul Bennett	248	31.5	03-21	217	33.7	10-03	2.2
14N01W08A	Lynn Nicholson	253	24.0	03-21	229	25.4	10-03	1.4
14N01W19	W.D. Hulett	245	21.9	03-20	223	24.0	10-03	2.1
14N01W26C	Leo Saenger	247	31.0	03-20	216	33.5	10-03	2.5
14N01W33C	Benny Templeton	247	26.1	03-20	221	29.0	10-03	2.9
14N02W12	W.I. Rainwater	251	23.8	03-21	227	25.7	10-03	1.9
14N02W22B	George Bradley	250	20.5	03-20	230	21.2	10-03	.7
JEFFERSON COUNTY								
03S07W36ACC1	Ned Brown	185	26.0	04-17	159	30.0	10-24	4.0
03S08W01ABB1	C.H. Triplett	197	34.5	04-17	163	34.0	10-24	.5
03S09W14BCD1	Tucker Estate	224	33.0	04-17	191	35.0	10-24	2.0
03S09W27AAA1	Tucker Estate	222	40.0	04-17	182	44.5	10-24	4.5
03S09W36ACC1	Payne Estate	215	29.5	04-17	186	32.0	10-24	2.5

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989			Net Change (feet)
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)		
JEFFERSON COUNTY--Continued								
03S10W26DAD2	Bennett	215	31.0	04-17	184	32.0	10-24	183 - 1.0
04S07W35DDB1	Mark Shelton	185	19.0	04-17	166	20.0	10-24	165 - 1.0
04S08W33DDB1	Elms	212	31.0	04-17	181	32.5	10-24	180 - 1.5
04S09W01DAA2	J. Blair	213	30.5	04-17	183	33.0	10-24	180 - 2.5
04S09W32DCB1	J. Blair	215	22.0	04-17	193	22.5	10-24	193 - .5
04S09W34DBA2	Guenther	215	24.0	04-17	191	25.5	10-24	190 - 1.5
05S07W35CDD2	Prudential	195	16.0	04-19	179	17.5	10-24	178 - 1.5
07S07W18AAD1	C.H. Triplett	188	14.0	04-19	174	17.0	10-24	171 - 3.0
LAWRENCE COUNTY								
15N01E11DAA1	Truman Goodson	255	33.5	03-06	222	34.8	10-24	220 - 1.3
15N01E23DAD1	J.B. Loren	250	33.5	03-06	217	33.7	10-24	216 - .2
15N01E32AAB1	Ervin Blanchard	255	42.4	03-06	213	42.9	10-24	212 - .5
15N02E10BBD1	D.B. White	247	12.5	03-06	235	23.4	10-24	224 - 10.9
16N01E29BBA1	Stan Jones	261	33.8	03-06	227	35.2	10-24	226 - 1.4
16N01E30DCC1	Sylvia Rainwater	260	36.3	03-06	224	37.5	10-24	223 - 1.2
16N01E35AAA1	Melton Todd	256	33.1	03-06	223	34.3	10-24	222 - 1.2
16N02E09AAD1	James F. Sloan	261	29.1	03-06	232	30.8	10-24	230 - 1.7
16N02E19ACA1	Belk Farms	260	30.4	03-06	230	31.8	10-24	228 - 1.4
16N02E34CBA1	Raymond Covey	255	29.0	03-06	226	32.5	10-24	223 - 3.5

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989		
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)	Net Change (feet)
		Feet	Date	(feet)	Feet	Date	(feet)
LAWRENCE COUNTY--Continued							
17N01E02BBA1	Tribo Farms, Inc.	260	11.3	03-06	249	10-24	2.3
17N01E21CAC1	J.D. Beary	265	12.0	03-06	253	10-24	- 3.8
17N01E27AAA1	W.A. Wilson Jr.	270	25.8	03-06	244	10-24	- .7
17N02E04ADD1	Wilson Crisler	270	28.7	03-06	241	10-24	- 3.5
17N02E19CDD1	Tom Hilburn	265	28.3	03-06	237	10-24	- 2.0
17N02E21AAC1	Smith Painting Co.	268	30.8	03-06	237	10-24	- 2.2
17N02E25CBD1	Delphine Connelly	265	17.8	03-06	247	10-24	- 8.4
15N01W03BAB1	Lance Phillips	259	34.7	03-06	224	10-24	5.2
15N01W23BCD1	Joel Teel	255	31.0	03-06	224	10-24	- 1.2
15N01W30AAA1	Laddie Allen	254	25.5	03-06	229	10-24	- .7
16N01W30DDC1	Casey Phillips	255	12.5	03-06	243	10-24	- 9.8
17N01W26BCB1	Bennett Hart	260	11.6	03-06	248	10-24	- 5.2
17N01W36AAB1	Raymond Jones	257	5.8	03-06	251	10-24	- 4.7
LEE COUNTY							
01N01E04AAB1	John Fricker	175	16.0	04-15	159	10-25	- 7.0
01N01E09CCC1	V.W. Williams	175	21.0	04-15	154	10-25	- 5.4
01N01E24CBA1	James Key	185	10.0	04-13	175	10-25	- .5
01N02E01DDD1	Bill Gerrard	205	17.0	04-15	188	10-25	- 6.5
01N02E09BBA2	Alex Palmer	200	17.0	04-15	183	10-25	- 8.0

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989			Net Change (feet)
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)		
		Feet	Date	(feet)	Feet	Date	(feet)	
LEE COUNTY--Continued								
01N02E12ABB1	Bill Gerrard	205	18.0	04-15	187	10-25	178	- 9.0
01N02E22CAA1	Jimmy Manley	200	18.0	04-15	182	10-25	177	- 5.3
01N02E33CBB1	Eugene Hindlsey	185	7.0	04-13	178	10-25	172	- 6.2
01N02E33CCB1	A.B. Thompson	185	7.0	04-13	178	10-25	176	- 2.3
02N01E18CBD1	Steve Fowler	185	28.0	04-15	157	10-25	155	- 2.0
02N01E21BAA1	John Dozier	189	20.0	04-15	169	10-26	167	- 2.0
02N01W34CDA1	A.J. Harvey	186	33.0	04-15	153	10-26	150	- 2.8
02N01W34DDC1	A.J. Harvey	180	29.0	04-15	151	10-26	148	- 3.5
02N02E36DDC1	Jane Cloyd	205	15.0	04-15	190	10-26	188	- 2.5
02N03E29CAA1	Lowell Parten	215	30.0	04-15	185	10-25	175	- 10.0
02N03E33DCD1	Alex Palmer	205	33.0	04-13	172	10-25	170	- 2.5
02N04E03ABD1	Lou Mann	185	19.0	04-14	166	10-26	163	- 2.8
03N01E03CBC1	Derward Byrd	205	50.0	04-15	155	10-26	153	- 2.0
03N01E17ADC1	Derward Byrd	200	54.0	04-15	146	10-26	147	.6
03N01E32BBC1	Harlan Wilson	200	49.0	04-15	151	10-26	153	1.7
03N02E12CDC1	Bernard Whitehead	210	41.0	04-15	169	10-26	171	2.1
03N03E05CBC1	Buddy Whitehead	210	39.0	04-15	171	10-25	169	- 2.0
03N03E11DCB1	Faye Bullard	225	51.0	04-15	174	10-26	175	.6
03N03E18DAB1	Trent Felton	175	20.0	04-15	155	10-26	151	- 4.5
03N04E07CBB1	Mike Vaccaro	200	25.0	04-15	175	10-26	176	1.0
03N05E03ADB1	W.H. Daggett	197	21.0	04-14	176	--	--	--
03N05E26ADC1	Ray Dawson	185	7.0	04-14	178	10-26	180	1.6
LINCOLN COUNTY								
07306W03CCA1	Katie Wood	190	15.0	04-24	175	10-30	175	.0

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989		
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)	Net Change (feet)
		Feet	Date	Feet	Date	Feet	
LINCOLN COUNTY--Continued							
07S07W36CBD1	Joe Newton	185	04-24	159	10-30	158	- 1.0
08S04W06ACB1	Robert Adcock	174	04-24	167	10-30	161	- 6.0
08S04W28CAB1	T.J. Cox	166	04-24	140	10-30	136	- 4.0
08S05W12DBA1	R.L. Rogers	171	04-24	160	10-30	151	- 9.0
08S05W16DBC1	Joel Garner	174	04-24	156	10-30	149	- 7.0
08S05W21DCD1	Joel Garner	174	04-24	150	10-30	151	1.0
08S05W29ABC1	Elmer West	176	04-24	145	10-31	146	1.0
08S05W32DCC1	Sue Halter	174	04-24	146	10-31	141	- 5.0
09S04W06CBB1	Prudential Life	163	04-24	143	10-31	141	- 2.0
09S05W34BBD1	A.V. Stimson	171	04-24	149	10-30	143	- 6.0
09S06W03BDC1	Jack Jackson	175	04-24	149	--	--	--
09S06W04BDD1	Tom Cogbill	180	04-24	152	10-31	150	- 2.0
09S06W14ACA1	E.F. Freeman	175	04-24	149	10-31	156	7.0
09S06W23BCD1	E.F. Freeman	175	04-24	153	10-31	150	- 3.0
09S06W24DAA1	G.D. Smith	177	04-24	155	10-31	157	2.0
LONOKE COUNTY							
01N07W07ABB2	Russell Schenebeck	227	05-15	122	11-29	118	- 3.2
01N07W33BCB1	Ward and Stratton	213	05-15	122	11-29	122	.0
01N08W03DDA1	Winrock Farms	230	05-15	120	11-29	117	- 2.4

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989				Fall 1989			
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Date	Altitude of water level (feet)	Depth to water below land surface	Date	Altitude of water level (feet)	Net Change (feet)
LONOKE COUNTY--Continued									
01N08W18CCB1	W.T. Fletcher	222	--	--	--	74.4	11-29	148	--
01N09W25BAA1	Aeries, Inc.	228	73.0	05-01	155	74.0	11-29	154	- 1.0
01N10W02CBD1	Prudential	241	23.0	05-01	218	--	--	--	--
01N10W12ABB1	Carl Stecks	240	35.8	05-01	204	34.6	11-29	205	1.2
01N10W15CDA1	Dortch	241	20.5	05-01	221	20.6	11-29	220	.1
02N07W07DAA1	R.M. Elliot	232	114.0	05-01	118	112.0	11-29	120	2.0
02N08W23DDB1	Jim Kittler	229	111.0	04-28	118	117.0	11-29	112	- 6.0
02N09W18ABC1	Finley Farms	261	74.1	05-01	187	74.1	11-29	187	.0
02N10W14BBD1	Marcus Rye	238	37.0	05-01	201	38.5	11-29	200	- 1.5
02N10W15ACC1	Townsend	242	29.7	05-01	212	31.7	11-29	210	- 2.0
02N10W36BDC1	Prudential	243	40.0	04-28	203	39.4	11-29	204	.6
03N07W27ABA2	Young's Farms, Inc.	230	85.5	05-15	145	89.5	11-29	141	- 4.0
03N07W32CCD2	Kenneth Gosney	240	102.4	04-28	138	103.3	11-29	137	- .9
03N08W26CDC1	Don & Ron Schafer	235	91.0	04-28	144	91.7	11-29	143	- .7
03N10W24DBA1	McCrary	237	44.2	05-13	193	44.5	11-29	193	.3
01S06W16CCC1	Belcher	207	85.2	05-13	122	81.0	11-29	126	- 4.2
01S06W32BBB1	Bowlan	201	65.7	05-13	135	67.5	11-29	134	- 1.8
01S07W02CAA1	W.R. Rouse	210	84.6	05-15	125	85.0	11-29	125	.4
01S09W03CDC2	Sandage	225	54.8	05-01	170	--	--	--	--
01S09W36CCC1	Marvin Burgess	220	48.0	05-01	172	49.0	11-29	171	- 1.0
01S10W15BBA1	Travelers	238	22.0	05-01	216	20.1	11-29	218	1.9
02S08W22CCC1	Ida Walls	216	53.5	05-15	163	51.9	11-29	164	1.6
02S09W02BBC1	Louise Tebbets	224	--	--	--	50.1	11-22	174	--

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989			
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)	Net Change (feet)	
LONOKE COUNTY--Continued								
02S09W22AAA1	Capps	228	55.8	05-15	172	51.8	176	4.0
02S09W30DCC1	Sunderman	228	35.3	05-15	193	36.7	191	- 1.4
MISSISSIPPI COUNTY								
10N08E21ABB1	Bob Pugh	224	20.0	04-11	204	20.8	203	- .8
10N08E21BAD1	Bob Pugh	224	19.5	04-11	205	20.2	204	- .7
12N08E27CAB1	Bond Bros.	225	10.0	04-11	215	16.0	209	- 6.0
12N09E12ABB1	Harold Senter	234	8.2	04-11	226	15.8	218	- 7.6
12N10E04CAA1	R.B. Holthouse	235	6.5	04-21	229	12.2	223	- 5.7
12N10E07BCD1	Charles Robinson	239	9.0	04-11	230	15.9	223	- 6.9
12N10E21DBA1	Wade Whistle	236	8.9	04-03	227	13.5	223	- 4.6
12N10E33CAA1	Lowrance Bros.	230	11.0	04-03	219	14.5	216	- 3.5
13N08E24ABB1	Ira G. Ashley	230	6.0	04-11	224	10.5	220	- 4.5
14N08E20DAA1	Prudential Insurance	225	2.4	04-03	223	6.2	219	- 3.8
14N08E26CCD1	E.L. Parks	230	1.5	04-03	229	5.0	225	- 3.5
14N11E19ACA1	Ann Goetch	240	3.8	04-10	236	8.4	232	- 4.6
14N11E33DBB1	Mike McCarty	240	8.7	04-14	231	14.2	226	- 5.5
15N10E21ABC1	Joe Dilldine	240	9.0	04-10	231	12.5	228	- 3.5
16N10E28BBD1	R.D. Hughes	240	4.6	04-10	235	12.5	228	- 7.9
MONROE COUNTY								
01N01W03CDB1	Edgar Fowler	185	25.6	04-11	159	37.6	147	- 12.0

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989			Net Change (feet)	
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)			
MONROE COUNTY--Continued									
01N02W14DDD1	Ferrill Martin	180	17.2	04-11	163	21.8	11-13	158	- 4.6
01N02W19BCB1	Don Pettigrew	180	17.8	04-11	162	17.3	11-13	163	.5
01N03W23BAD1	Corrine Nelson	170	9.0	04-11	161	12.0	11-13	158	- 3.0
02N01W19ADD1	A.J. Brizzolara	190	41.0	04-11	149	41.6	11-13	148	- .6
02N03W35CDA1	Bill Davis	185	28.2	04-11	157	29.5	11-13	156	- 1.3
04N02W05AAA1	D.R. Parsley	185	11.5	04-11	174	13.3	11-15	172	- 1.8
01S01W16DB	Allen Walls	175	16.0	04-11	159	15.8	11-13	159	.2
01S02W20BBB1	J.T. Richardson	170	7.0	04-11	163	10.2	11-13	160	- 3.2
01S03W20CCD1	Don Davis	210	69.1	04-11	141	70.5	11-28	140	- 1.4
02S01W01BCD1	Larry Coleman	175	15.5	04-11	160	15.5	11-13	160	.0
02S01W11DBB1	Allen Walls	170	14.5	04-11	156	14.4	11-13	156	.1
PHILLIPS COUNTY									
01S01E20DDB1	Dennis Storey	185	15.0	04-13	170	17.4	10-26	168	- 2.4
01S02E09BDC	Ronald Storey	185	9.0	04-13	176	13.4	10-26	172	- 4.4
01S02E32BCC1	Joe Kemmer	200	30.0	04-13	170	31.0	10-26	169	- 1.0
01S03E02ADD1	Nix Bros.	200	--	--	--	16.6	10-26	183	--
01S03E10ABB1	Henry Heidelberger	205	12.0	04-13	193	18.0	10-26	187	- 6.0
01S03E20BDD1	W.A. Smith	210	23.0	04-13	187	34.0	10-26	176	- 11.0
01S04E05DCD1	J.W. Webb	230	43.0	04-13	187	45.0	10-26	185	- 2.0

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989		
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)	Net Change (feet)
		Feet	Date	Feet	Date	Feet	
PHILLIPS COUNTY--Continued							
02S02E29DDD1	J. A. Hill	180	04-13	158	23.4	157	- 1.4
02S02E33ACC1	James Yancey	177	04-13	155	26.4	151	- 4.4
02S03E05BBC1	W. A. Smith	194	04-13	165	29.0	165	.0
02S03E34BCD1	Buck Ward	165	04-14	149	18.0	147	- 2.0
02S04E27ACC1	W. A. Bailey	175	04-14	166	3.0	172	6.0
02S04E32BCA1	Pat Burke	175	04-14	163	16.2	159	- 4.2
03S04E02CAA1	Buron Griffin	176	04-14	162	13.0	163	1.0
04S01E01AAD1	Steve Cannon	156	04-14	144	10.7	145	1.3
04S01E14CDD1	Don Warren	155	04-14	145	11.0	144	- 1.0
04S01E26CDA1	Charles R. Griffith	160	04-14	148	--	--	--
04S01E29C	J. B. Lambert, III	150	--	--	14.0	136	--
04S02E01DBB1	Steve Cannon	163	04-14	151	12.5	151	.5
05S01E26ADC1	Jim Bush	160	04-14	147	14.7	145	- 1.7
POINSETT COUNTY							
10N01E02AA	Paul Wolf	235	03-13	158	78.8	156	- 1.8
10N01E10DAB1	Charlie Dale	236	03-13	158	80.5	156	- 2.0
10N01E32CBB1	Anderson Weld	222	03-13	184	40.0	182	- 2.0
10N01E33ABB1	Eddie Wright	220	03-13	160	60.5	160	.5
10N01E34ADA1	Eddie Wright	230	03-13	151	81.5	149	- 2.2

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989				Fall 1989			
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Altitude of water level (feet)	Depth to water below land surface	Date	Altitude of water level (feet)	Net Change (feet)
POINSETT COUNTY--Continued									
11N02E02CB	Jack Knapple	235	65.0	170	168	67.0	10-02	168	- 2.0
11N02E13BCC1	Danny Clements	237	80.0	157	154	83.0	10-02	154	- 3.0
11N02E20BAB1	Beal	237	80.5	157	154	83.0	10-02	154	- 2.5
11N03E02DDD1	Gary Reddman	265	102.0	163	163	102.0	10-02	163	.0
11N03E29BBC1	Wallace	236	78.0	158	--	--	--	--	--
11N04E26CBC1	Sonny Bonds	220	16.0	204	210	10.0	10-02	210	6.0
11N01E21DDC1	Fullbright	232	62.5	170	167	65.0	10-02	167	- 2.5
11N01E34CA	Paul Wolf	235	80.0	155	164	71.5	10-02	164	8.5
11N02E01DD	Rice Lee Vanausdall	245	99.0	146	145	100.0	10-02	145	- 1.0
11N02E10CB	Joe Guziewez	245	97.0	148	147	98.0	10-02	147	- 1.0
11N02E30BBB1	Sonny Wolf	239	81.5	158	155	83.8	10-02	155	- 2.3
11N02E34CB	Claude Heeb	240	90.0	150	147	93.0	10-02	147	- 3.0
11N03E11DDD1	Larry Bryan	262	115.0	147	145	117.0	10-02	145	- 2.0
11N03E13CAA1	Lafarrel Wess	270	110.2	160	158	111.8	10-03	158	- 1.6
11N03E30DDC1	Johnny Brannum	240	85.3	155	153	87.0	10-02	153	- 1.7
11N04E23CBC1	Mrs. Earl Whitaker	215	19.4	196	193	21.8	10-02	193	- 2.4
11N04E36ABA1	Hyneman	211	8.0	203	198	13.0	10-02	198	- 5.0
12N01E22DAB1	Vernon Walker	235	59.2	176	173	61.7	10-03	173	- 2.5
12N02E10CB	Rex Downing	245	--	--	143	102.0	10-02	143	--
12N02E25DCC1	Wimpy Farms	245	89.0	156	165	80.0	10-03	165	9.0
12N02E34CC	Elmer Cooper	245	94.0	151	151	94.0	10-02	151	.0
12N03E01CCA1	Skip Covington	250	78.2	172	169	80.7	10-03	169	- 2.5
12N03E04DAD1	Hall	248	85.5	163	161	86.8	10-03	161	- 1.3

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989				Fall 1989			
		Altitude of land surface (feet above sea level)	Depth to water below land surface Feet	Date	Altitude of water level (feet)	Depth to water below land surface Feet	Date	Altitude of water level (feet)	Net Change (feet)

POINSETT COUNTY--Continued									
12N04E08DA	Doug Wittingham	250	74.3	03-13	176	75.5	10-03	175	- 1.2
12N04E15AAA1	B.L. Evans	225	21.7	03-07	203	22.8	10-02	202	- 1.1
12N05E16AAA1	L.B. Terry	221	4.5	03-07	217	10.5	10-02	211	- 6.0
12N06E31ADD1	Charles Woodruff	218	2.5	03-07	216	11.0	10-02	207	- 8.5
12N07E10CBB1	Weems	220	8.0	03-07	212	15.0	10-02	205	- 7.0

PRAIRIE COUNTY									
01N06W28	Uhiren Farm	221	106.0	04-13	115	110.2	11-17	111	- 4.2
01N06W34	Eddie Lisko	223	104.5	04-13	119	106.0	11-15	117	- 1.5
02N06W07	L.F. Smith	237	124.0	04-20	113	124.6	11-17	112	- .6
02N06W08	L.D. Branch	235	115.7	04-19	119	116.3	11-15	119	- .6
03N05W05	Jerry DeVorak	212	69.0	04-20	143	70.5	11-17	142	- 1.5
03N06W17	E.H. Bednar	216	69.0	04-14	147	69.5	11-17	147	- .5
04N05W13	Delta Trust	210	64.5	04-20	146	66.0	11-15	144	- 1.5
04N05W14	Buck Uland	205	30.0	04-19	175	39.0	11-17	166	- 9.0
04N05W18	Noble Dicks	210	67.8	04-19	142	68.4	11-17	142	- .6
04N05W19	Duke Morton	212	72.0	04-19	140	73.1	11-15	139	- 1.1
04N05W21	Skarda Farms	210	64.0	04-20	146	--	--	--	--
04N05W27	Skarda Farms	205	50.0	04-20	155	53.2	11-15	152	- 3.2
04N05W30	William Bell	213	74.0	04-20	139	74.9	11-17	138	- .9

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989			Net Change (feet)
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Altitude of water level (feet)	Depth to water below land surface	Altitude of water level (feet)		
PRAIRIE COUNTY--Continued								
04N06W08	Reuben Kennedy	202	54.0	148	54.0	148	0.0	
04N06W09	M.V. Owens	204	55.0	149	55.6	148	-.6	
04N06W12	Delta Trust	205	68.3	137	68.8	136	-.5	
04N06W23	George Ford	215	73.5	142	77.0	138	- 3.5	
04N06W24	William Bell	213	76.2	137	79.2	134	- 3.0	
04N07W33	Mickey Graham	254	89.5	165	91.0	163	- 1.5	
05N05W23	V.O. Calhoun	200	25.5	175	35.5	165	- 10.0	
05N05W24	M. Calhoun	187	7.5	180	18.6	168	- 11.1	
05N05W25	M. Calhoun	185	10.2	175	25.6	159	- 15.4	
05N05W28	F. Calhoun	192	26.0	166	29.1	163	- 3.1	
01S04W28	Ray Vester	206	94.0	112	94.5	112	-.5	
02S06W14	C. Patterson	200	32.0	168	63.5	137	- 31.5	
RANDOLPH COUNTY								
18N01E01ABA1	John Bennett	266	9.2	257	10.1	256	-.9	
18N01E13BAB1	Lamb Bros.	266	7.6	258	9.8	256	- 2.2	
18N01E25BAB1	Mrs. D.W. Fender	265	9.1	256	9.9	255	-.8	
18N01E27D	Fender	259	--	--	9.6	249	--	
18N01E28BAC1	Sherman Jones	259	12.2	247	13.2	246	- 1.0	
18N01E29BAA1	B.R. James	255	9.2	246	12.0	243	- 2.8	

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989			Net Change (feet)
		Altitude of land surface (feet above sea level)	Depth to water below land surface (feet)	Date	Altitude of water level (feet)	Depth to water below land surface (feet)	Date	
RANDOLPH COUNTY--Continued								
18N01E34CCD1	J.D. Blankenship	262	13.2	04-20	249	9.7	10-00	3.5
18N02E02CBA1	Terry Robinette	277	23.1	04-20	254	24.7	10-00	- 1.6
18N02E06BDB1	B.R. James	265	11.4	04-20	254	11.1	10-00	.3
18N02E14BCB1	S. Morgan	274	19.0	04-20	255	18.9	10-00	.1
18N02E17CBB1	Milton Lemmons	265	11.9	04-20	253	14.1	10-00	- 2.2
18N02E20BAA1	B.R. James	275	23.9	04-20	251	24.6	10-00	- .7
18N02E21CAA1	Bobby Crisler	273	21.6	04-20	251	22.6	10-00	- 1.0
18N02E25CAB1	A. Ford Estate	270	20.5	04-20	250	19.5	10-00	1.0
18N02E26CBA1	B. R. James	273	24.6	04-20	248	26.3	10-00	- 1.7
18N02E27CAB1	B. French	271	24.6	04-20	246	25.3	10-00	- .7
18N02E32ABB1	Bobby Crisler	271	18.1	04-20	253	25.3	10-00	- 7.2
19N02E04ADD1	Carlton Thraesch	267	4.3	04-20	263	4.9	10-00	.6
19N02E09ABA1	Bernard Baltz	266	5.0	04-20	261	10.5	10-00	- 5.5
19N02E22DAD1	Alan Rodgers	265	4.5	04-20	261	9.6	10-00	- 5.1
20N02E01DAC1	Dan Joe Wren	281	6.0	04-20	275	4.9	10-00	1.1
20N02E14ADA1	Bill Johnston	274	7.4	04-20	267	13.6	10-00	- 6.2
20N02E28BCD1	Dan Joe Wren	269	5.5	04-20	264	6.1	10-00	- .6
20N03E06DAC1	Dan Joe Wren	280	8.8	04-20	271	17.1	10-00	- 8.3
20N03E07AAD1	Dan Joe Wren	281	14.7	04-20	266	13.1	10-00	1.6
20N03E29CBC1	Lamb Bros.	280	20.1	04-20	260	21.6	10-00	- 1.5
20N03E33CAC1	Lamb Bros.	287	16.1	04-20	271	18.5	10-00	- 2.4
20N03E33CCA1	Lamb Bros.	287	16.9	04-20	270	20.6	10-00	- 3.7

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989			Net Change (feet)
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Date	Altitude of water level (feet)	Depth to water below land surface	Date	
ST FRANCIS COUNTY--Continued								
04N01E05AAC1	O.P. Hammons	205	54.0	04-11	151	53.0	10-10	1.0
04N01E17DCB1	H. Watkin	210	57.0	04-11	153	56.0	10-10	1.0
04N01W20BBB1	McKinney Dixon	200	48.5	04-11	152	48.0	10-10	.5
04N01W25DBC1	Libbie Pleasants	205	62.0	04-11	143	66.0	10-10	- 4.0
04N02E20ACC1	Earl Gore	210	51.0	04-10	159	50.0	10-10	1.0
04N04E15ABA1	Lakeside Farms	200	30.0	04-11	170	31.0	10-10	1.0
05N01E04BBA1	C.E. West	210	52.5	04-10	158	54.0	10-12	- 1.5
05N01E06DAD1	Freda Hardin	211	53.0	04-10	158	55.0	10-12	- 2.0
05N02E04BCC1	Delton Cummings	210	46.0	04-10	164	--	--	--
05N03E18DCD1	Bryan Holmes	210	65.0	04-10	145	65.0	10-13	.0
05N04E26B	W.B. Burch	200	24.0	04-10	176	24.0	10-12	.0
05N05E21CBA1	Sid Fogg	195	26.5	04-10	169	29.0	10-12	- 2.5
05N06E05BBB1	W.C. Casey	195	25.5	04-11	170	24.0	10-12	1.5
06N01E23BDC1	Pine Tree Exp. Station	210	55.0	04-10	155	55.0	10-13	.0
06N02E16CCB1	John Drury	210	50.0	04-10	160	50.0	10-13	.0
06N02E18BAA1	Calvin Frazier	210	50.0	04-10	160	50.0	10-13	.0
06N04E36CDC1	David Blaylock	200	23.0	04-11	177	23.5	10-12	- .5
06N05E28ACD1	Louis Walker	203	30.0	04-11	173	29.5	10-12	.5
06N06E20AAA1	Steve Bernard	205	23.5	04-11	182	23.5	10-12	.0
WHITE COUNTY								
06N04W07BBC1	V. Johnston	205	18.4	03-17	187	21.3	11-13	- 2.9

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989			Fall 1989			Net Change (feet)
		Altitude of land surface (feet above sea level)	Depth to water below land surface (feet)	Date	Altitude of water level (feet)	Depth to water below land surface (feet)	Date	

WHITE COUNTY--Continued

06N06W04BAB1	E. Vaughn	221	43.7	03-17	177	42.5	11-08	179	1.2
06N06W13BAD1	B. Duch	213	40.5	03-17	173	40.6	11-08	172	.1
06N06W18BCA1	C. Powell	210	27.5	03-17	183	27.8	11-08	182	.3

WOODRUFF COUNTY

05N01W03ACA1	Ashburn	215	51.2	03-28	164	50.8	12-18	164	.4
05N01W13DDC1	Melvin	210	58.2	03-28	152	60.6	12-18	149	2.4
05N01W31BCB1	Wilks	210	50.8	03-28	159	56.1	12-18	154	5.3
05N02W13ABD1	Kennedy	195	50.4	03-28	145	49.9	12-18	145	.5
05N03W25ddb1	McMullan	190	9.6	03-28	180	13.2	12-18	177	3.6
05N03W31CBA1	Gardner	178	-.2	03-30	178	7.5	12-18	171	7.7
06N02W19AAA1	Daniels	225	42.4	03-28	183	44.9	12-18	180	2.5
06N04W22BDA1	Rodgers	186	.3	03-30	186	10.2	12-18	176	9.9
07N01W04DBB1	Childress	225	50.9	03-28	174	48.5	12-18	177	2.4
07N02W16DBB1	Burkett	206	17.6	03-28	188	19.7	12-18	186	2.1
07N03W05ACA1	Bowen	213	19.5	03-30	194	20.3	12-18	193	.8
07N03W06DBB1	Sloan Valve	212	18.7	03-28	193	18.6	12-18	193	.1
07N03W31BBA1	Gregory	200	5.6	03-30	194	11.1	12-18	189	5.5
08N01W06CCD1	Myers	220	31.1	03-29	189	32.1	12-18	188	1.0
08N01W10AAA1	Young	211	40.8	03-28	170	40.3	12-18	171	.5

Table 1.--Water levels in wells completed in the alluvial aquifer, spring and fall 1989--Continued

Location	Land owner	Spring 1989				Fall 1989			
		Altitude of land surface (feet above sea level)	Depth to water below land surface	Date	Altitude of water level (feet)	Depth to water below land surface	Date	Altitude of water level (feet)	Net Change (feet)
WOODRUFF COUNTY--Continued									
08N02W15ACA1	Jelks	209	15.2	03-28	194	18.7	12-18	190	- 3.5
08N02W27DDC1	Swanson	213	20.3	03-30	193	23.5	12-18	190	- 3.2
09N03N32ACA1	Fitzhugh	217	10.6	03-29	206	16.3	12-18	201	- 5.7
09N03W21DBD1	Dale	220	12.9	03-28	207	16.5	12-18	204	- 3.6
09N03W24DBC1	Rouse	212	3.0	03-29	209	5.6	12-18	206	- 2.6