

GROUND-WATER LEVELS IN THE ALLUVIAL AQUIFER
IN EASTERN ARKANSAS, 1987

By Paul W. Westerfield

U.S. GEOLOGICAL SURVEY

Open-File Report 89-64



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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 516 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 1987.

The shallowest prepumping water levels occurred in Ashley, Clay, Crittenden, Greene, 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 the postpumping season averaged about 3.3 feet lower than during the prepumping season.

INTRODUCTION

This report contains records of water-level measurements made in 516 wells that tap the aquifer in the Quaternary deposits of the Mississippi Alluvial Plain (fig. 1), herein referred to as the alluvial aquifer. This report 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 help 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 maintains 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 technical advice and coordination provided by the U.S. Geological Survey. These data will be used in conjunction with measurements made by the U.S. Geological Survey to prepare maps showing potentiometric surface, depth to water, and 5-year net change of water levels in eastern Arkansas for 1987. The water-level data included in this report are not stored in the U.S. Geological Survey's WATSTORE ground-water file system but are stored in local files of the U.S. Geological Survey.

The water levels in Table 1 reflect the prepumping and postpumping conditions during 1987. The shallowest prepumping water levels occurred in Ashley, Clay, Crittenden, Greene, 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 59.0 to 88.6 feet below land surface. Water levels in the postpumping season averaged about 3.3 feet lower than during the prepumping season.

DESCRIPTION OF TABLE

Table headings used in the report are defined as follows:

Location: Township, range, and section number designation of well.

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 land surface. Measurements were made with a chalked steel tape and are accurate to within 0.10 foot.

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

Net change: Difference in feet between the spring and fall 1987 altitude of water level. Symbol preceding number indicates a decline (-) in water levels in the well during the period.

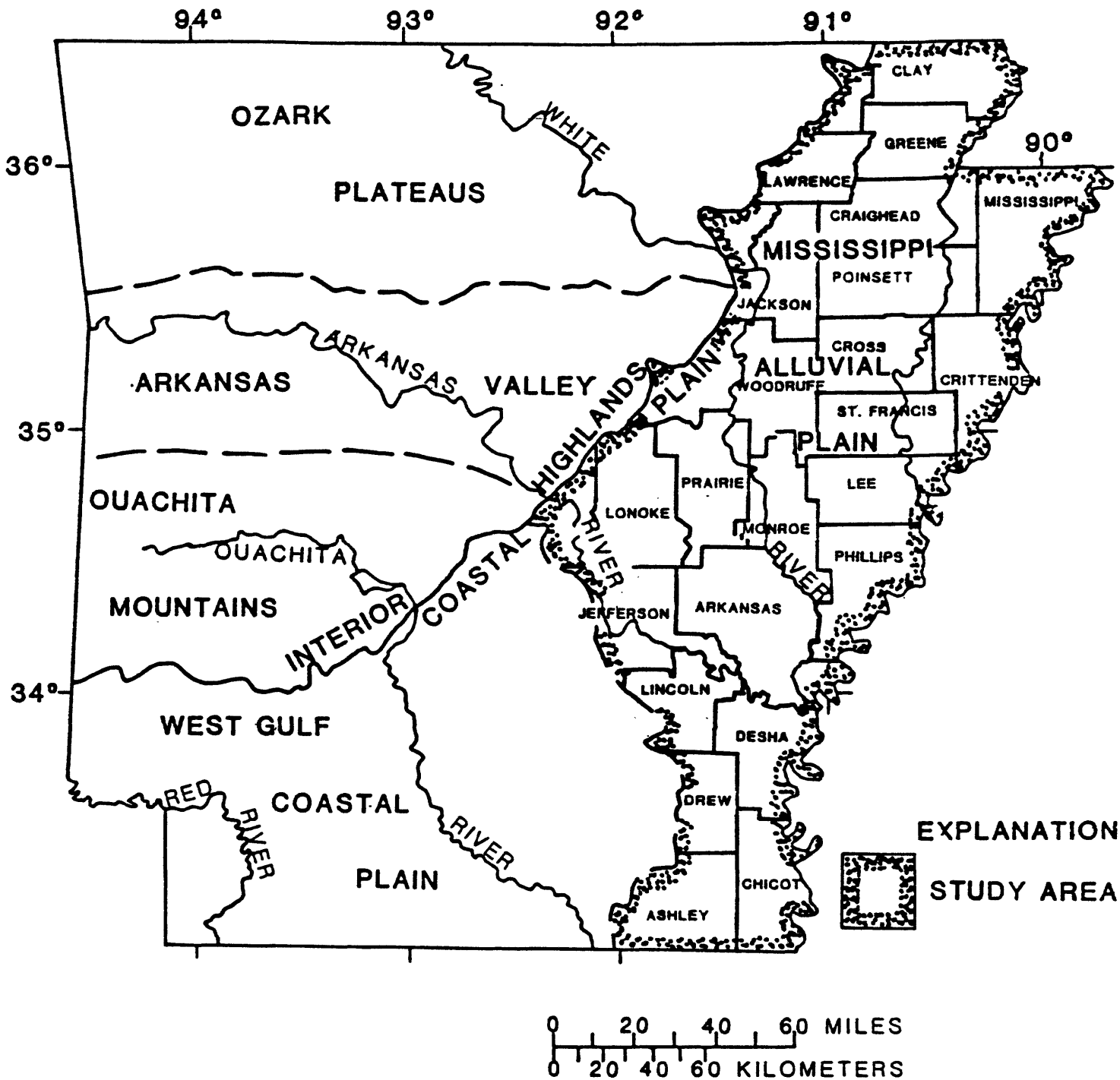


Figure 1.--Location of study area.

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 that 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 01S03W04BBD (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.

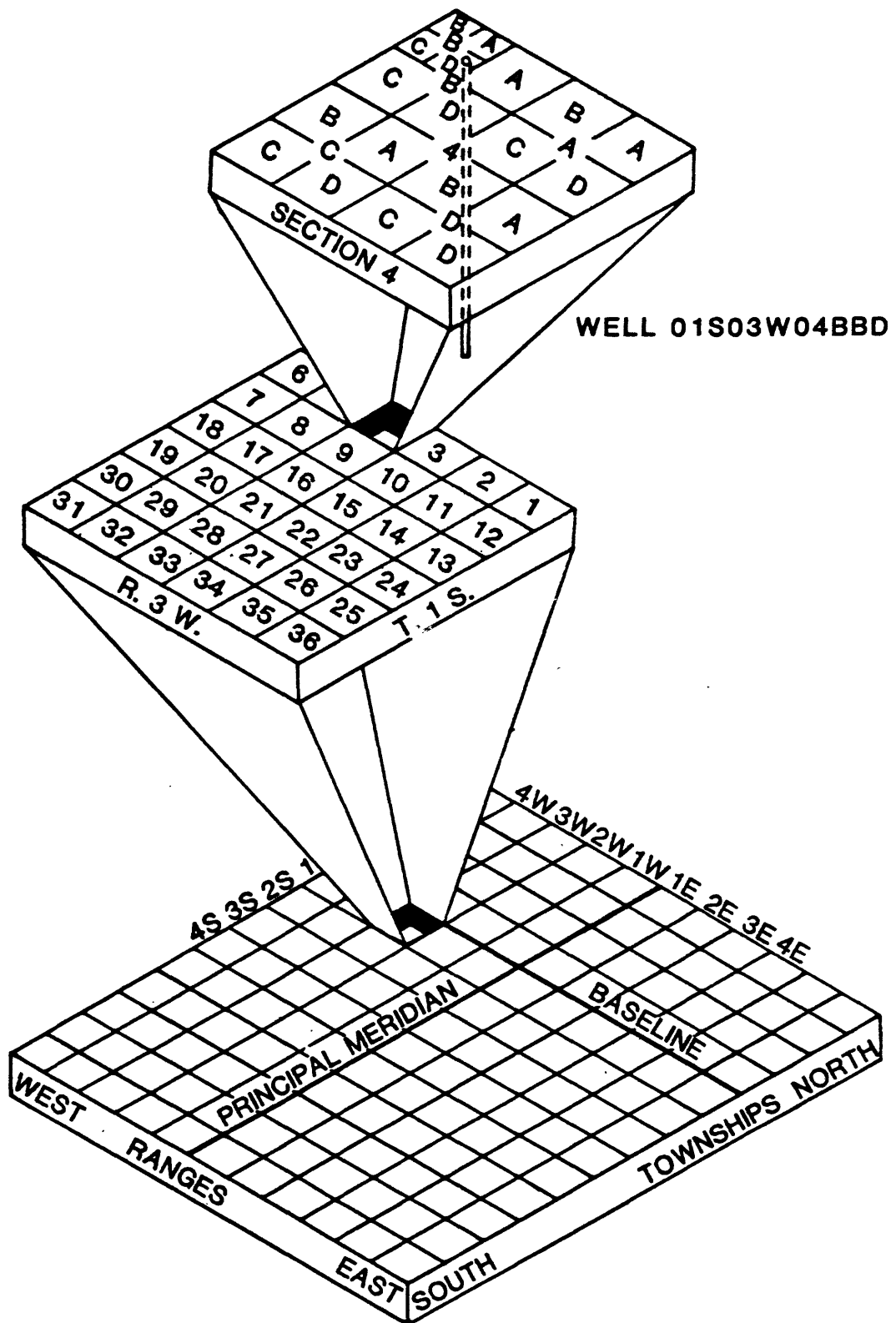


Figure 2.--Well numbering system.

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Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987

Location	Land owner	Spring 1987			Fall 1987			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	
ARKANSAS COUNTY								
02S04W20AAB	K. Maier	205	110.0	04-22	95.0	97.0	10-06	13.0
03S04W18CCA	Senko Farms	210	113.0	04-22	97.0	90.0	10-06	23.0
03S04W18DCB	Senko Farms	210	65.0	04-22	145.0	65.0	10-06	0.0
03S04W19AA	Senko Farms	208	110.0	04-22	98.0	111.0	10-06	- 1.0
05S03W16ABB	Allen Bros.	196	114.0	04-22	82.0	107.0	10-06	7.0
05S04W04BAA	Marion Hartz	186	90.0	04-22	96.0	83.0	10-06	7.0
05S04W14AAD	A.C. Smith	186	89.0	04-22	97.0	92.0	10-06	3.0
05S04W34BAC	Mark Berry	191	70.0	04-22	121.0	71.0	10-06	- 1.0
06S02W03ABA	J.W. Hargrove	187	73.0	04-22	114.0	76.0	10-14	- 3.0
07S03W10ACD	Pat Hackney	187	52.0	04-22	135.0	54.0	10-14	- 2.0
ASHLEY COUNTY								
16S04W21AAC	Craig Shackelford	130	24.1	04-08	105.9	33.8	10-21	- 9.7
16S05W01ACD	Clyde Russell	125	17.2	04-08	107.8	18.1	10-21	- 0.9
17S05W01AAD	Joel Newcomb	122	16.0	04-08	106.0	19.6	10-21	- 3.6
18S04W14BBB	Larry Holland	107	16.5	04-08	90.5	25.4	10-21	- 8.9
18S04W23DDD	Henry Morschheimer	103	15.7	04-08	87.3	21.9	10-21	- 6.2
18S05W11CCD	Billy Scroggins	118	19.3	04-08	98.7	23.6	10-21	- 4.3
19S05W08ACA	Steven Harvey	111	13.0	04-08	98.0	21.0	10-21	- 8.0
19S05W16ABB	John Currie, Jr.	116	22.0	04-08	94.0	24.0	10-21	- 2.0
19S05W27CBA	Gerard Mountjoy	107	19.7	04-08	87.3	--	--	--

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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	
CHICOT COUNTY								
13S03W21DDD	Mark Sherland	135	21.0	--	114.0	--	--	--
13S03W27AAA	Bobby Braswell	138	30.5	--	107.5	32.0	106.0	- 1.5
14S02W09BD	J. Golden	135	28.0	--	107.0	29.0	106.0	- 1.0
14S02W18BBA	B.F.W.	130	20.0	--	110.0	26.0	104.0	- 6.0
15S01W31ADD	R. Baskett	120	20.8	--	99.2	20.0	100.0	0.8
15S02W20CDD	Bruce Leggitt	125	24.0	--	101.0	25.0	100.0	- 1.0
15S03W13ACC	Bill Keller	125	--	--	--	24.0	101.0	--
16S01W12DDB	Joe Gates	110	20.0	--	90.0	24.0	86.0	- 4.0
16S03W11ABA	Lewis Howel	115	22.0	--	93.0	25.0	90.0	- 3.0
17S03W18CBC	Gus Pugh	115	32.0	--	83.0	27.0	88.0	5.0
17S03W28ACC	R.H. Tuggle	105	20.0	--	85.0	21.0	84.0	- 1.0
18S01W33BDA	Alvin Meyer, Jr.	115	11.3	--	103.7	19.0	96.0	- 7.7
19S02W28AC	Major Winters	125	39.0	--	86.0	39.0	86.0	0.0
CLAY COUNTY								
19N04E11DA	Joe Dodd	280	15.0	03-16	265.0	16.8	263.2	- 1.8
19N06E18DB	Leroy Cruce	297	23.5	03-16	273.5	25.3	271.7	- 1.8
19N07E25BC	Lynn Wimberley	268	16.0	03-26	252.0	20.0	248.0	- 4.0
19N08E08DC	Ropac	263	5.0	03-26	258.0	9.4	253.6	- 4.4
19N09E19CD	Frank Thrasher	265	6.5	04-01	258.5	9.6	255.4	- 3.1
20N04E03AA	Quinn Brown	290	14.5	03-16	275.5	17.3	272.7	- 2.8
20N05E15CA	Odell Richardson	291	26.0	03-16	265.0	22.3	268.7	3.7
20N05E22CA	Wallace Lewallen	290	20.0	03-16	270.0	--	--	--
20N06E09BB	Leon Cates	290	12.0	03-16	278.0	15.5	274.5	- 3.5

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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	
CLAY COUNTY--CONTINUED								
20N06E28CD	Harold Bauschlicher	290	17.0	03-16	273.0	19.3	10-13	270.7 - 2.3
20N08E22BD	Charles Hollis	279	8.0	04-01	271.0	12.2	10-14	266.8 - 4.2
20N09E09AB	Jess Hill	279	5.5	04-01	273.5	13.0	10-14	266.0 - 7.5
21N03E15CB	Joe Lewis	292	11.0	03-16	281.0	14.3	10-13	277.7 - 3.3
21N03E36CD	O.E. Davis	290	14.0	03-16	276.0	17.6	10-13	272.4 - 3.6
21N04E09DA	Buel Turner	291	14.0	03-16	277.0	11.8	10-13	279.2 - 2.2
21N06E09BB	John Holifield	292	7.0	03-16	285.0	11.5	10-13	280.5 - 4.5
21N07E01DC	David Lawrence	303	11.0	03-16	292.0	19.8	10-13	283.2 - 8.8
21N07E19BD	Junior Allman	295	--	--	--	18.5	10-13	276.5 --
21N08E03CC	Ricky Jones	310	22.0	03-17	288.0	26.5	10-14	283.5 - 4.5
21N08E03CD	Charles Foster	308	16.5	03-17	291.5	21.9	10-14	286.1 - 5.4
CRAIGHEAD COUNTY								
13N01E03AA	Joy Ledbetter	240	38.3	03-17	201.7	40.8	12-08	199.2 - 2.5
13N01E03AA	Ledbetter	240	--	--	--	48.0	12-10	192.0 --
13N01E33BD	C.C. Ellis	240	45.4	03-17	194.6	45.3	12-08	194.7 0.1
13N02E02AA	Mrs. Chas. Bishop	251	70.3	03-16	180.7	70.3	12-08	180.7 0.0
13N03E23CD	Earl Hill	249	70.6	03-16	178.4	72.6	12-10	176.4 - 2.0
13N04E15DC	W.R. Carter	230	19.8	03-16	210.2	21.5	12-10	208.5 - 1.7
13N04E26BC	R. Turman	225	--	--	--	24.1	12-10	200.9 --
13N05E06DC	Mildred Morrison	229	17.9	03-16	211.1	19.3	12-10	209.7 - 1.4
13N06E03AC	Noel Eggers	223	4.5	03-16	218.5	6.8	12-10	216.2 - 2.3
13N06E21CB	Ed Ball	222	5.7	03-16	216.3	7.3	12-10	214.7 - 1.6
13N07E22DB	Herbert Wood	220	5.8	03-16	214.2	7.6	12-11	212.4 - 1.8

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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		
CRAIGHEAD COUNTY--CONTINUED									
13N07E35AD	H. Adams, Jr.	240	--	--	--	10.1	12-11	229.9	--
14N01E10BA	Wayne Wiggins	246	33.3	03-17	212.7	35.3	12-07	210.7	- 2.0
14N01E31DA	Raymond Crider	251	40.9	03-17	210.1	43.3	12-08	207.7	- 2.4
14N02E15DD	Donald Williams	255	55.6	03-16	199.4	57.8	12-07	197.2	- 2.2
14N02E16BC	Larry Burns	250	44.0	03-17	206.0	49.0	12-07	201.0	- 5.0
14N02E22AA	Williams	255	--	--	--	58.5	12-07	196.5	--
14N05E29BA	Hellsboro Plaza, Inc.	236	17.6	03-16	218.4	20.3	12-10	215.7	- 2.7
14N07E07BB	B. McFarlin	230	5.0	03-16	225.0	7.4	12-11	222.6	- 2.4
15N02E01CA	W. Barnes	265	--	--	--	26.0	12-10	239.0	--
15N02E12AB	S.W. Knight	250	18.4	03-17	231.6	20.2	12-10	229.8	- 1.8
15N05E15DD	Randolph Steele	253	22.8	03-16	230.2	26.3	12-11	226.7	- 3.5
15N05E32AB	Ray Dooley	252	19.5	03-16	232.5	23.6	12-11	228.4	- 4.1
15N06E04AB	Poley Schug	239	7.8	03-16	231.2	11.6	12-11	227.4	- 3.8
15N07E11DA	Maurice Keich, Trust	235	8.3	03-16	226.7	11.1	12-11	223.9	- 2.8
15N07E21DA	Urell Dudley	236	8.3	03-16	227.7	12.0	12-11	224.0	- 3.7
CRITTENDEN COUNTY									
05N07E08DDA	Billy West	206	17.4	02-23	188.6	28.0	10-27	178.0	- 10.6
05N07E34BDB	Carlson	205	15.1	03-02	189.9	24.1	10-27	180.9	- 9.0
07N06E08DAD	Billy Rogers	210	24.0	02-23	186.0	26.3	10-27	183.7	- 2.3
07N08E17	L. McCuiston	212	12.0	02-19	200.0	17.5	10-27	194.5	- 5.5
08N06E01DCC	Sam Hatley	215	25.1	02-24	189.9	27.6	10-27	187.4	- 2.5

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Altitude of land surface (feet above sea level)	Spring 1987			Fall 1987			Altitude of water level (feet)	Net Change (feet)
			Depth to water below land surface (feet)	Date	Altitude of water level (feet)	Depth to water below land surface (feet)	Date			
CRITTENDEN COUNTY--CONTINUED										
08N06E06DDA	George Watson	214	23.4	02-24	190.6	28.6	10-27	185.4	-	5.2
08N07E32DAD	Joe Marotti	215	21.0	02-20	194.0	22.0	10-27	193.0	-	1.0
09N07E02CCA	Ed Young	225	25.0	02-20	200.0	27.0	10-27	198.0	-	2.0
09N07E21CDD	E. Barnes	220	20.1	03-02	199.9	22.0	10-28	198.0	-	1.9
09N08E04CCB	Joe Boone	216	12.7	02-19	203.3	19.2	10-27	196.8	-	6.5
CROSS COUNTY										
06N02E10CDA	V.A. Pervin	200	48.1	03-26	151.9	51.0	10-27	149.0	-	2.9
06N02E12AAA	Hoyt Neill	235	63.6	03-26	171.4	65.4	10-27	169.6	-	1.8
06N04E01BBB	Lucy Billingsley	205	39.5	03-26	165.5	39.7	10-21	165.3	-	0.2
06N05E02AAA	M & W Farms	205	38.8	03-26	166.2	39.5	10-21	165.5	-	0.7
07N01E05DCB	W.E. Plyler	215	64.2	03-25	150.8	58.4	10-20	156.6	-	5.8
07N01E06CAA	Sonny Cox	220	59.0	03-25	161.0	60.8	10-20	159.2	-	1.8
07N01E33BBA	Martin Ridley	215	--	--	--	60.7	10-27	154.3	--	--
07N02E04DCD	Bockman	225	50.0	03-30	175.0	51.5	10-27	173.5	-	1.5
07N02E10ABB	E.R. Rolfe	225	69.1	03-25	155.9	70.6	10-20	154.4	-	1.5
07N02E12BBC	David Holloman	225	62.3	03-25	162.7	64.3	10-20	160.7	-	2.0
07N02E15DAA	David Tyer	218	59.7	03-25	158.3	63.6	10-27	154.4	-	3.9
07N02E29DDC	Martha Ellis Est.	220	55.8	03-24	164.2	54.7	10-27	165.3	-	1.1
07N03E05AAD	Gloria Borell	255	98.7	03-25	156.3	98.4	10-20	156.6	0.3	--
07N04E07AAA	Jimmy Wilkins	215	33.0	03-26	182.0	--	--	--	--	--
07N05E02AAB	O.C. Houser	210	27.5	03-26	182.5	29.0	10-21	181.0	-	1.5
07N05E09DBC	C.W. Martin	210	31.0	03-26	179.0	31.3	10-21	178.7	-	0.3

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Altitude of land surface (feet above sea level)	Spring 1987			Fall 1987			Altitude of water level (feet)	Net Change (feet)
			Depth to water below land surface (feet)	Date	Altitude of water level (feet)	Depth to water below land surface (feet)	Date			
07N05E25ABA	H.F. Sloan	205	24.8	03-26	180.2	27.7	10-21	177.3	- 2.9	
08N01E02CDD	Wisemore	227	56.5	03-30	170.5	58.5	10-20	168.5	- 2.0	
08N01E16DBB	Myrtle Kemp	225	66.4	03-25	158.6	67.3	10-20	157.7	- 0.9	
08N01E17CAD	Una Cooper	220	59.6	03-25	160.4	61.3	10-20	158.7	- 1.7	
08N02E12DCC	Donald Rolland Est.	230	71.3	03-30	158.7	70.4	10-20	159.6	- 0.9	
08N02E17BAA	L.V. Diebold	225	67.4	03-30	157.6	69.0	10-20	156.0	- 1.6	
08N04E27ABB	Kenneth Thompson	205	23.7	03-26	181.3	19.8	10-21	185.2	- 3.9	
09N01E04ACD	Virginia Reinhart	225	66.5	03-25	158.5	67.7	10-20	157.3	- 1.2	
09N01E33BBA	Rebecca Fisher	225	59.7	03-25	165.3	67.8	10-20	157.2	- 8.1	
09N01E36AAB	Curtis Hagler	225	64.5	03-25	160.5	67.4	10-20	157.6	- 2.9	
09N02E17AAB	Sam Vaughn	232	92.4	03-30	139.6	--	--	--	--	
09N02E20AAA	Fay Imboden	230	70.0	03-25	160.0	73.9	10-20	156.1	- 3.9	
09N02E30CBB	Larry Volk	225	70.0	03-25	155.0	67.8	10-20	157.2	- 2.2	
09N03E03ACC	Lou Stadler	250	90.8	03-25	159.2	95.5	10-20	154.5	- 4.7	
09N03E17CDD	Millard Carter	245	82.1	03-25	162.9	84.8	10-20	160.2	- 2.7	
09N04E01ADD	Delta Farm	205	19.0	04-06	186.0	22.0	10-21	183.0	- 3.0	
09N04E03DBB	John Brown	215	--	--	--	26.4	10-21	188.6	--	
09N04E33ADB	Anne Quessenbury	205	24.0	03-26	181.0	30.9	10-21	174.1	- 6.9	
09N05E10ACC	John Collier	210	26.0	04-06	184.0	24.4	10-21	185.6	- 1.6	
09N05E32BDB	Elizabeth Johnston	210	25.5	03-26	184.5	26.9	10-21	183.1	- 1.4	
07N04E07AAA	Jimmy Wilkins	215	--	--	--	34.5	10-21	180.5	--	

CROSS COUNTY--CONTINUED

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987				Fall 1987			
		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)
07S01E19ABA	Brooks Griffin	154	10.0	03-26	144.0	18.0	10-23	136.0	- 8.0
09S01W08BDA	Adcock	151	13.1	04-07	137.9	21.2	10-15	129.8	- 8.1
09S01W15CBB	Baxter	152	10.2	04-06	141.8	18.6	10-15	133.4	- 8.4
09S02W17CBC	Beegle	153	20.7	04-06	132.3	22.1	10-20	130.9	- 1.4
09S02W20DAC	Spainhouer	152	20.1	04-07	131.9	26.1	10-20	125.9	- 6.0
09S03W35CCA	Shea	155	28.3	04-07	126.7	33.6	10-20	121.4	- 5.3
09S03W35DCB	Hopmann	156	28.9	04-06	127.1	32.3	10-20	123.7	- 3.4
09S04W02CDA	Walt Brothers	163	31.4	04-07	131.6	35.6	10-20	127.4	- 4.2
10S02W11ADD	Singleton	148	13.6	04-07	134.4	20.2	10-15	127.8	- 6.6
10S02W23DBC	Baxter	153	22.7	04-06	130.3	26.4	10-15	126.6	- 3.7
10S04W08BDA	Stimson	162	23.2	04-07	138.8	27.3	10-20	134.7	- 4.1
10S04W11BBB	Pickens	161	27.2	04-06	133.8	31.0	10-20	130.0	- 3.8
10S04W16CCA	Pickens	159	18.9	04-06	140.1	20.9	10-20	138.1	- 2.0
11S02W15BAD	Tucker (Wolfe Est.)	148	24.3	04-07	123.7	30.4	10-15	117.6	- 6.1
11S02W31DAA	Johnson	147	27.4	04-07	119.6	32.4	10-15	114.6	- 5.0
11S03W21ABB	Tillar & Co.	139	21.0	04-07	118.0	27.8	10-20	111.2	- 6.8
12S01W23DBC	Simpson	146	--	--	--	17.8	10-15	128.2	--
12S03W30BCD	Powell	141	24.9	04-06	116.1	28.9	10-20	112.1	- 4.0
13S02W05CDC	Gilliam	146	38.3	04-06	107.7	48.3	10-20	97.7	- 10.0
13S02W05CDD	Gilliam	146	35.6	04-07	110.4	38.5	10-20	107.5	- 2.9
13S02W32DBD	Deltic	135	34.1	04-06	100.9	33.3	10-20	101.7	0.8

DESHA COUNTY

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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		
DREW COUNTY									
11S04W31ABC	Peterson	152	13.2	04-21	138.8	12.0	10-13	140.0	1.2
12S04W25DBB	Hogue	147	21.1	04-21	125.9	31.8	10-09	115.2	- 10.7
12S05W04AAB	R.D. Jones	182	30.9	04-21	151.1	30.0	10-15	152.0	0.9
13S04W09ACD	Tabor	145	14.5	04-20	130.5	17.3	10-09	127.7	- 2.8
13S04W29CAB	Ogles	135	13.8	04-20	121.2	12.1	10-07	122.9	1.7
13S06W21DAA	Reinhart	207	75.0	04-20	132.0	72.0	10-13	135.0	3.0
14S04W03ADD	Pamplin	149	21.3	04-20	127.7	23.8	10-07	125.2	- 2.5
14S04W05CBA	Henke	134	8.6	04-20	125.4	13.5	10-07	120.5	- 4.9
14S04W08CAD	Bates	130	6.4	04-20	123.6	12.4	10-07	117.6	- 6.0
14S04W22CAA	Dennington	135	13.1	04-20	121.9	20.1	10-07	114.9	- 7.0
GREENE COUNTY									
16N05E27DBB	McLaughlin	285	18.0	03-20	267.0	22.0	11-10	263.0	- 4.0
16N06E09AAC	Williamson	255	41.0	03-20	214.0	37.5	11-10	217.5	3.5
16N06E21BBA	Wells	250	21.0	03-20	229.0	25.0	11-10	225.0	- 4.0
17N03E28CDB	Dulaney	260	16.8	03-24	243.2	19.0	11-12	241.0	- 2.2
17N03E28DCD	Gillman	270	21.0	03-24	249.0	22.3	11-06	247.7	- 1.3
17N03E29ABB	Jumper	255	17.3	03-24	237.7	18.5	11-12	236.5	- 1.2
17N06E15ABB	Boggs	268	28.5	03-24	239.5	32.0	11-10	236.0	- 3.5
17N06E22CBA	Frankum	265	30.5	03-24	234.5	46.0	11-12	219.0	- 15.5
17N07E03CCC	Alexander	245	3.3	03-20	241.7	10.0	11-12	235.0	- 6.7
17N07E29CBB	Thomas	244	5.0	03-24	239.0	10.0	11-12	234.0	- 5.0
18N05E34AAA	Scheer	280	16.5	03-25	263.5	19.7	11-10	260.3	- 3.2
18N07E17BAB	Lewis	260	6.8	03-24	253.2	9.0	11-10	251.0	- 2.2

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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	
GREENE COUNTY--CONTINUED								
18N08E29CBA	Hill	250	4.8	03-20	245.2	9.5	11-12	240.5 - 4.7
19N04E30DBB	Laughhettee	276	23.0	03-24	253.0	25.0	11-06	251.0 - 2.0
19N05E33DDD	Howe	287	24.0	03-25	263.0	--	--	-- --
19N05E34BDD	Lange	282	23.0	03-25	259.0	25.0	11-10	257.0 - 2.0
INDEPENDENCE COUNTY								
11N04W02ABB	Jerry Roberson	237	--	--	--	23.7	10-22	213.3 --
11N04W06ABB	David Pankey	230	--	--	--	16.7	10-22	213.3 --
12N05W36ABA	Don Kramer	235	--	--	--	25.1	10-22	209.9 --
14N03W12CCB	Lauerne Dickey	231	--	--	--	13.0	10-22	218.0 --
14N03W14CBB	Jim Barnett	228	--	--	--	8.5	10-22	219.5 --
JACKSON COUNTY								
09N01E18C	D. Muncer	215	43.8	03-23	171.2	--	--	-- --
09N01W15D	M.P. Murphee	222	40.4	03-19	181.6	44.5	10-21	177.5 - 4.1
09N01W30B	Calvin Fields	210	29.1	03-23	180.9	--	--	-- --
09N02W11C	Pete Guinn	221	10.0	03-24	211.0	12.0	10-22	209.0 - 2.0
09N02W32B	B.J. Hardin	224	23.0	03-23	201.0	35.0	10-21	189.0 - 12.0
09N02W32B	B.J. Hardin	227	23.0	03-19	204.0	--	--	-- --
10N01W02C	W.E. Jackson	230	46.0	03-19	184.0	52.0	10-21	178.0 - 6.0
10N01W04	W.C. Neeley	225	41.0	03-19	184.0	43.1	10-21	181.9 - 2.1
10N01W05	Charlie McCartney	227	32.6	03-24	194.4	35.8	10-21	191.2 - 3.2

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Altitude of land surface (feet above sea level)	Spring 1987			Fall 1987			Altitude of water level (feet)	Net Change (feet)
			Depth to water below land surface (feet)	Date	Altitude of water level (feet)	Depth to water below land surface (feet)	Date			
10N01W10A	Johnson Farm	220	41.9	03-19	178.1	44.2	10-21	175.8	- 2.3	
10N01W14C	J. Winemiller	228	48.0	03-19	180.0	30.0	10-21	198.0	18.0	
10N01W27A	J. Kieffer	225	45.2	03-19	179.8	51.3	10-21	173.7	- 6.1	
10N02W29	Jack Kent	220	18.0	03-19	202.0	19.0	10-22	201.0	- 1.0	
10N03W11	Oscar Turner	214	6.5	03-24	207.5	--	--	--	--	
10N03W30DC	Kenny Falwell	222	20.0	04-08	202.0	32.7	10-21	189.3	- 12.7	
10N03W34C	West of Weldon	209	--	--	--	20.0	10-22	189.0	--	
11N01W25B	Davis Bros.	231	51.7	03-19	179.3	54.3	10-21	176.7	- 2.6	
11N02W02D	Marvin Hare	235	24.5	03-24	210.5	--	--	--	--	
11N02W09	Andy Doyle	233	22.8	03-19	210.2	25.1	10-20	207.9	- 2.3	
11N02W23D	J.D. Huey	226	19.7	03-19	206.3	23.4	10-21	202.6	- 3.7	
11N03W05B	Haigwood	227	--	--	--	36.0	10-22	191.0	--	
11N03W12D	Haigwood Bros.	227	15.5	03-19	211.5	--	--	--	--	
11N03W18C	Rutledge Bros.	218	11.5	03-24	206.5	--	--	--	--	
12N01W11B	Joe Edwards	233	24.9	03-24	208.1	--	--	--	--	
12N01W14BC	Bill Phillips	233	26.5	03-19	206.5	28.0	10-22	205.0	- 1.5	
12N01W30C	Floyd Coleman	232	20.0	03-23	212.0	23.2	10-21	208.8	- 3.2	
12N01W30C	Floyd Coleman	226	20.0	03-19	206.0	--	--	--	--	
12N01W36	W.R. Lofton	236	38.1	03-24	197.9	--	--	--	--	
12N02W19C	Kaneaster Hodges	230	9.0	03-24	221.0	--	--	--	--	
13N01W23B	Jim Thomas	243	30.3	03-09	212.7	31.6	10-20	211.4	- 1.3	
13N02W10A	Dale Baughn	246	18.0	03-19	228.0	--	--	--	--	
13N02W10C	Dale Baughn	247	--	--	--	19.0	10-21	228.0	--	
13N02W22	Holden-Conner	240	15.1	03-19	224.9	16.4	10-21	223.6	- 1.3	
13N02W34C	James Young	240	15.0	03-19	225.0	15.0	10-22	225.0	0.0	

JACKSON COUNTY--CONTINUED

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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	
JACKSON COUNTY--CONTINUED								
13N03W15	Taylor Estate	235	11.7	03-24	223.3	20.6	10-21	214.4 - 8.9
13N03W36	S. Graham	235	11.7	03-24	223.3	14.9	10-21	220.1 - 3.2
14N01W01C	Paul Bennett	248	30.3	03-19	217.7	32.2	10-20	215.8 - 1.9
14N01W08A	Lynn Nicholson	253	24.3	03-19	228.7	25.1	10-21	227.9 - 0.8
14N01W19	W.D. Hulett	245	21.7	03-19	223.3	23.1	10-13	221.9 - 1.4
14N01W33C	Benny Templeton	247	26.2	03-19	220.8	27.7	10-20	219.3 - 1.5
14N02W12	W.I. Rainwater	251	22.8	03-19	228.2	24.5	10-13	226.5 - 1.7
14N02W22B	George Bradley	250	22.7	03-19	227.3	26.6	10-21	223.4 - 3.9
JEFFERSON COUNTY								
03S07W36ACC	Ned Brown	185	26.8	04-01	158.2	28.0	10-13	157.0 - 1.2
03S08W01ABB	C.H. Triplett	197	33.0	04-16	164.0	--	--	--
03S09W14BCD	Tucker Estate	224	33.5	04-01	190.5	36.0	10-13	188.0 - 2.5
03S09W27AAA	Tucker Estate	222	39.0	04-01	183.0	55.0	10-13	167.0 - 16.0
03S09W36	Payne Estate	215	27.0	04-01	188.0	29.5	10-13	185.5 - 2.5
03S10W26DAD	Bennett	215	12.0	04-01	203.0	24.0	10-13	191.0 - 12.0
04S07W35DDB	Mark Shelton	185	20.5	04-01	164.5	21.0	10-13	164.0 - 0.5
04S08W33DBB	Elms	212	28.5	04-01	183.5	29.0	10-14	183.0 - 0.5
04S09W01DAA	J. Blair	213	28.0	04-01	185.0	31.0	10-13	182.0 - 3.0
04S09W32DCB	J. Blair	215	16.0	04-01	199.0	22.0	10-13	193.0 - 6.0
04S09W34DBA	Guenther	215	19.0	04-01	196.0	24.0	10-13	191.0 - 5.0
05S07W35CDD	Prudential	195	14.0	04-01	181.0	15.0	10-13	180.0 - 1.0
07S07W18AAD	C.H. Triplett	188	15.0	04-01	173.0	18.0	10-14	170.0 - 3.0

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Altitude of land surface (feet above sea level)	Spring 1987			Fall 1987			Net Change (feet)
			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)	
15N01E11DAA	Truman Goodson	255	31.9	03-23	223.1	34.2	10-20	220.8	- 2.3
15N01E23DAD	J.B. Lorren	250	29.9	03-23	220.1	32.5	10-20	217.5	- 2.6
15N01E32AAB	Ervin Blanchard	255	39.2	03-24	215.8	40.6	10-20	214.4	- 1.4
15N01W03BAB	Lance Phillips	259	25.5	03-23	233.5	30.1	10-20	228.9	- 4.6
15N01W23BCD	Joel Teel	255	31.8	03-24	223.2	31.4	10-20	223.6	0.4
15N01W30AAA	Laddie Allen	254	24.9	03-24	229.1	26.4	10-20	227.6	- 1.5
15N02E10BBD	D.B. White	247	19.0	03-23	228.0	21.6	10-20	225.4	- 2.6
16N01E29BBA	Stan Jones	261	31.5	03-25	229.5	33.0	10-20	228.0	- 1.5
16N01E30DCC	Sylvia Rainwater	260	34.2	03-25	225.8	35.3	10-20	224.7	- 1.1
16N01E35AAA	Melton Todd	256	30.8	03-25	225.2	29.7	10-15	226.3	1.1
16N01W30DDC	Casey Phillips	255	17.5	03-23	237.5	27.4	10-20	227.6	- 9.9
16N02E09AAD	James F. Sloan	261	26.6	03-23	234.4	28.9	10-20	232.1	- 2.3
16N02E12AAB	Carl Phillips	260	30.4	03-23	229.6	33.3	10-20	226.7	- 2.9
16N02E19ACA	Belk Farms	260	28.6	03-23	231.4	30.2	10-20	229.8	- 1.6
16N02E34CBA	Raymond Covey	255	28.0	03-23	227.0	31.0	10-20	224.0	- 3.0
17N01E02BBA	Tribo Farms Inc.	260	8.9	03-25	251.1	10.2	10-15	249.8	- 1.3
17N01E21CBC	J.D. Beary	265	14.6	03-25	250.4	16.4	10-20	248.6	- 1.8
17N01E27AAA	W.A. Wilson Jr.	270	24.3	03-24	245.7	25.7	10-15	244.3	- 1.4
17N01W26BCB	Bennett Hart	260	15.4	03-25	244.6	17.6	10-15	242.4	- 2.2
17N01W36AAB	Raymond Jones	257	8.9	03-25	248.1	10.2	10-15	246.8	- 1.3
17N02E04ADD	Wilson Crisler	270	26.5	03-23	243.5	29.5	10-21	240.5	- 3.0
17N02E19CDD	Tom Hilburn	265	26.5	03-23	238.5	28.4	10-15	236.6	- 1.9
17N02E21AAC	Smith Planting Co.	268	28.3	03-23	239.7	30.8	10-20	237.2	- 2.5
17N02E25CBD	Delphina Connelly	265	23.2	03-23	241.8	25.1	10-15	239.9	- 1.9

LAWRENCE COUNTY

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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	
LEE COUNTY								
01N01E04AAB	John Fricker	175	15.0	03-23	160.0	24.0	10-21	151.0 - 9.0
01N01E09CCC	V.W. Williams	175	16.3	03-24	158.7	29.0	10-21	146.0 - 12.7
01N01E24CBA	James Key	185	10.3	03-24	174.7	18.0	10-21	167.0 - 7.7
01N02E01DAC	Bill Gerrard	205	19.0	03-23	186.0	34.0	10-21	171.0 - 15.0
01N02E09BBA	Alex Palmer	200	19.0	03-23	181.0	32.0	10-21	168.0 - 13.0
01N02E12ABB	Bill Gerrard	205	20.0	03-23	185.0	35.0	10-21	170.0 - 15.0
01N02E22CAA	Jimmy Manley	200	18.3	03-24	181.7	33.0	10-21	167.0 - 14.7
01N02E33CBB	Eugene Hindlsey	185	7.3	03-24	177.7	18.0	10-21	167.0 - 10.7
01N02E33CCB	A.B. Thompson	185	7.0	03-24	178.0	18.0	10-21	167.0 - 11.0
02N01E18CBD	Steve Fowler	185	27.3	03-23	157.7	33.5	10-21	151.5 - 6.2
02N01E21AA	John Dozier	--	--	--	--	25.0	10-21	-- --
02N01E23ABA	J.N. Bickerstaff	200	39.0	03-23	161.0	40.0	10-21	160.0 - 1.0
02N01W34CDA	A.J. Harvey	186	32.0	03-23	154.0	36.0	10-21	150.0 - 4.0
02N01W34DDC	A.J. Harvey	180	30.0	03-23	150.0	33.0	10-21	147.0 - 3.0
02N02E33DCD	Alex Palmer	205	33.0	03-23	172.0	36.0	10-21	169.0 - 3.0
02N02E36DDC	Jane Cloyd	205	17.0	03-23	188.0	32.0	10-21	173.0 - 15.0
02N03E17DC	Lowell Parten	220	30.0	03-24	190.0	48.0	10-21	192.0 2.0
02N03E29CAA	Lowell Parten	215	43.0	03-24	172.0	47.0	10-21	168.0 - 4.0
02N04E03ABD	Lon Mann	185	23.3	03-24	161.7	20.5	10-20	164.5 - 2.8
03N01E03CBC	Derward Byrd	205	50.0	03-23	155.0	51.0	10-21	154.0 - 1.0
03N01E17ADC	Derward Byrd	200	53.8	03-23	146.2	54.3	10-21	145.7 - 0.5
03N01E32BBC	Harlan Wilson	200	47.5	03-23	152.5	49.5	10-21	150.5 - 2.0
03N02E12CDC	Bernard Whitehead	210	41.3	03-24	168.7	43.8	10-20	166.2 - 2.5
03N02E24CAD	C.F. Tyson	205	37.0	03-24	168.0	40.0	10-20	165.0 - 3.0
03N03E05CBC	Buddy Whitehead	210	41.3	03-24	168.7	44.0	10-20	166.0 - 2.7
03N03E11DCB	Faye Bullard	225	51.5	03-24	173.5	--	--	-- --

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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	
LEE COUNTY--CONTINUED								
03N03E18DAB	Trent Felton	175	22.3	03-24	152.7	27.0	10-20	148.0 - 4.7
03N04E07CBB	Mike Vaccaro	200	27.5	03-24	172.5	30.0	10-20	170.0 - 2.5
03N05E03ADB	W.H. Daggett	197	19.5	03-24	177.5	21.5	10-26	175.5 - 2.0
03N05E26ADC	Ray Dawson	185	7.5	03-24	177.5	10.3	10-20	174.7 - 2.8
LINCOLN COUNTY								
07S06W03CCA	Katie Wood	190	11.0	04-08	179.0	19.0	10-19	171.0 - 8.0
07S07W36CBD	Joe Newton	185	22.0	04-08	163.0	26.0	10-19	159.0 - 4.0
08S04W06ACB	Robert Adcock	174	6.0	04-08	168.0	15.0	10-19	159.0 - 9.0
08S04W28CAB	T.J. Cox	166	19.0	04-08	147.0	31.0	10-19	135.0 - 12.0
08S05W12DBA	R.L. Rogers	171	5.0	04-08	166.0	19.0	10-19	152.0 - 14.0
08S05W16DBC	Joel Garner	174	20.0	04-08	154.0	24.0	10-19	150.0 - 4.0
08S05W21DCD	Joel Garner	174	20.0	04-08	154.0	24.0	10-19	150.0 - 4.0
08S05W29ABC	Elmer West	176	30.0	04-08	146.0	34.0	10-19	142.0 - 4.0
08S05W32DCC	Sue Halter	174	28.0	04-08	146.0	35.0	10-19	139.0 - 7.0
09S05W34BBD	A.V. Stimson	171	22.0	04-09	149.0	25.0	10-20	146.0 - 3.0
09S06W03BDC	Jack Jackson	175	25.0	04-08	150.0	30.0	10-20	145.0 - 5.0
09S06W04BDD	Tom Cogbill	180	31.0	04-08	149.0	31.0	10-19	149.0 - 0.0
09S06W14ACA	E.F. Freeman	175	25.0	04-09	150.0	31.0	10-20	144.0 - 6.0
09S06W23BCD	E.F. Freeman	175	26.0	04-09	149.0	28.0	10-20	147.0 - 2.0
09S06W24DAA	G.D. Smith	177	28.0	04-09	149.0	32.0	10-20	145.0 - 4.0

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Altitude of land surface (feet above sea level)	Spring 1987			Fall 1987			Altitude of water level (feet)	Net Change (feet)
			Depth to water below land surface (feet)	Date	Altitude of water level (feet)	Depth to water below land surface (feet)	Date			
LONOKE COUNTY										
01N07W07ABB	Schenebeck	227	103.6	04-27	123.4	106.6	10-22	120.4	-	3.0
01N07W33BCB	Ward & Stratton	213	90.7	04-23	122.3	95.0	10-06	118.0	-	4.3
01N08W19DBD	Hill	218	70.2	04-30	147.8	--	--	--	--	--
01N08WADD	Winrock Farms	230	106.4	04-27	123.6	--	--	--	--	--
01N09W25BAA	Aeries, Inc.	228	68.7	04-30	159.3	71.8	10-07	156.2	-	3.1
01N10W02CBD	Prudential	241	21.6	04-22	219.4	--	--	--	--	--
01N10W12ABB	Stecks	240	32.2	04-22	207.8	34.7	10-22	205.3	-	2.5
01N10W15CDA	Dortch	241	20.4	04-22	220.6	22.4	10-06	218.6	-	2.0
01S06W16CCC	Belcher	207	78.5	04-23	128.5	79.0	10-06	128.0	-	0.5
01S06W32BBB	Bowlan	201	61.5	04-23	139.5	68.4	10-06	132.6	-	6.9
01S07W02CAA	Rouse	210	81.3	04-23	128.7	85.9	10-06	124.1	-	4.6
01S09W03CDC	Sandage	225	50.0	04-24	175.0	53.5	10-22	171.5	-	3.5
01S09W36CCC	Burgess	220	45.1	04-23	174.9	47.7	10-22	172.3	-	2.6
01S10W15BBA	Travelers	238	19.5	04-22	218.5	23.0	10-06	215.0	-	3.5
02N07W07DAA	Elliot	232	112.5	04-27	119.5	116.0	10-22	116.0	-	3.5
02N08W23DDB	Kittler	229	108.5	04-27	120.5	110.8	10-06	118.2	-	2.3
02N09W18ABC	Finley	261	73.4	04-24	187.6	76.4	10-07	184.6	-	3.0
02N10W14BBD	Rye	238	36.5	04-24	201.5	39.2	10-07	198.8	-	2.7
02N10W15ACC	Townsend	242	29.0	04-24	213.0	32.2	10-07	209.8	-	3.2
02N10W24DBA	McCrary	237	44.1	04-22	192.9	46.8	10-07	190.2	-	2.7
02N10W36BDC	Prudential	243	36.2	04-22	206.8	--	--	--	--	--
02S08W22CCC	Walls	216	51.7	04-23	164.3	54.8	10-07	161.2	-	3.1
02S09W02BBC	Tebbets	224	46.4	04-23	177.6	50.1	10-22	173.9	-	3.7
02S09W22AAA	Capps	228	50.7	04-23	177.3	--	--	--	--	--
02S09W30DCC	Sunderman	228	34.0	04-22	194.0	35.5	10-22	192.5	-	1.5

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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	
LONOKE COUNTY--CONTINUED								
03N07W27ABA	Young	230	81.5	05-01	148.5	85.5	10-06	144.5 - 4.0
03N07W32CCD	Gosney	240	99.5	04-27	140.5	102.6	10-06	137.4 - 3.1
03N08W26CDC	Schafer	235	87.7	04-27	147.3	90.6	10-06	144.4 - 2.9
MISSISSIPPI COUNTY								
10N08E21BBB	Bob Pugh	224	18.9	03-17	205.1	20.6	10-14	203.4 - 1.7
10N08E21BDA	Bob Pugh	224	18.6	03-17	205.4	20.2	10-14	203.8 - 1.6
12N08E27CAB	Bond Bros.	225	12.0	03-17	213.0	17.7	10-14	207.3 - 5.7
12N09E12ABB	Harold Senter	234	10.0	03-17	224.0	18.1	10-14	215.9 - 8.1
12N10E04CAA	R.B. Holthouse	235	10.3	03-17	224.7	15.3	10-14	219.7 - 5.0
12N10E07BC	Charles Robinson	239	11.5	03-17	227.5	18.6	10-14	220.4 - 7.1
12N10E21DBA	Charles Standefer	236	12.7	03-23	223.3	16.8	10-14	219.2 - 4.1
12N10E33CAA	Lowrance Bros.	230	6.5	03-17	223.5	9.3	10-14	220.7 - 2.8
13N08E24ABB	Ira G. Ashley	230	10.0	03-13	220.0	13.1	10-14	216.9 - 3.1
14N08E20DAA	Prudential Ins. Co.	225	3.5	03-23	221.5	7.3	10-14	217.7 - 3.8
14N08E26CCD	E.L. Parks	230	3.0	03-23	227.0	7.1	10-14	222.9 - 4.1
14N11E19ADA	Ann Goetsch	240	--	--	--	10.8	10-14	229.2 --
14N11E33DBB	Mike McCarty	240	10.9	03-17	229.1	16.4	10-05	223.6 - 5.5
15N10E21ABC	Joe Dilldine	240	10.8	03-13	229.2	12.3	10-05	227.7 - 1.5
16N10E28ABB	R.D. Hughes	240	8.2	03-13	231.8	12.3	10-05	227.7 - 4.1
16N11E01ABB	Armored Planting Co.	258	9.0	03-23	249.0	12.3	10-05	245.7 - 3.3

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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	
MONROE COUNTY								
01N01W03CDB	Edgar Fowler	185	33.4	04-09	151.6	38.3	10-14	146.7 - 4.9
01N02W14DDD	Ferrill Martin	180	20.2	04-13	159.8	21.2	10-14	158.8 - 1.0
01N02W19BCB	Don Pettigrew	180	17.4	04-09	162.6	14.6	10-14	165.4 - 2.8
01N03W23BAD	Corrine Nelson	170	12.0	04-09	158.0	16.0	10-14	154.0 - 4.0
01S01W16DC	Allen Walls	175	13.7	04-09	161.3	16.0	10-14	159.0 - 2.3
01S02W20BBB	J.T. Richardson	170	8.8	04-09	161.2	12.6	10-14	157.4 - 3.8
01S03W20CCD	Don Davis	210	71.0	04-13	139.0	75.0	10-15	135.0 - 4.0
02N01W19ADD	A.J. Brizzolara	190	41.0	04-09	149.0	42.8	10-14	147.2 - 1.8
02N03W35CDA	Bill Davis	185	27.0	04-09	158.0	31.5	10-14	153.5 - 4.5
02S01W01BCD	Larry Coleman	175	15.0	04-09	160.0	17.0	10-14	158.0 - 2.0
02S01W11DBB	Allen Walls	170	14.8	04-09	155.2	17.2	10-14	152.8 - 2.4
04N02W01BCC	Fred Oxner	195	30.2	04-13	164.8	33.0	10-14	162.0 - 2.8
04N02W05AAA	D.R. Parsley	185	12.3	04-13	172.7	15.5	10-14	169.5 - 3.2
PHILLIPS COUNTY								
01S01E20DDB	Dennis Storey	185	15.0	03-25	170.0	19.0	10-22	166.0 - 4.0
01S02E09BDC	Ronald Storey	185	8.0	03-25	177.0	20.0	10-22	165.0 - 12.0
01S02E32BCC	Joe Kemmer	200	31.0	03-25	169.0	38.0	10-22	162.0 - 7.0
01S03E02ADD	Nix Bros.	200	8.0	03-25	192.0	16.0	10-22	184.0 - 8.0
01S03E10ABB	Henry Heidelberg	205	12.0	03-25	193.0	25.0	10-22	180.0 - 13.0
01S03E20BDD	W.A. Smith	210	30.0	03-25	180.0	41.0	10-22	169.0 - 11.0
01S04E05DCD	J.W. Webb	230	45.3	03-25	184.7	53.0	10-22	177.0 - 7.7
02S02E29DDD	J.A. Hill	180	25.0	03-25	155.0	33.0	10-22	147.0 - 8.0

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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	
PHILLIPS COUNTY--CONTINUED								
02S02E33ACC	James Yancey	177	23.0	03-25	154.0	31.0	10-22	146.0 - 8.0
02S03E05BBC	W.A. Smith	194	22.0	03-25	172.0	33.0	10-22	161.0 - 11.0
02S03E34BCD	Buck Ward	165	15.2	03-25	149.8	19.0	10-22	146.0 - 3.8
02S04E27ACC	W.A. Bailey	175	9.0	03-25	166.0	15.0	10-22	160.0 - 6.0
02S04E32BCA	Pat Burke	175	14.0	03-25	161.0	--	--	--
03S01E01AA	Steve Cannon	156	--	--	--	15.0	10-23	141.0 --
03S04E02CAA	Buron Griffin	176	13.0	03-25	163.0	15.0	10-22	161.0 - 2.0
04S01E14CDD	Don Warren	155	11.0	03-26	144.0	12.0	10-23	143.0 - 1.0
04S01E26CDA	Charles R. Griffith	160	13.5	03-26	146.5	15.0	10-23	145.0 - 1.5
04S01E29C	J.B. Lambert, III	150	--	--	--	16.5	10-23	133.5 --
04S02E01DBB	Steve Cannon	163	11.5	03-26	151.5	13.0	10-23	150.0 - 1.5
05S01E26ADC	Jim Bush	160	14.0	03-26	146.0	17.0	10-23	143.0 - 3.0
POINSETT COUNTY								
10N01E02CB	Jack Knapple	235	73.0	03-23	162.0	70.0	10-13	165.0 3.0
10N01E10DAB	Charlie Dale	236	97.8	03-23	138.2	88.5	10-14	147.5 9.3
10N01E32CBB	Anderson Weld	222	38.0	03-23	184.0	40.0	10-13	182.0 - 2.0
10N01E33ABB	Eddie Wright	220	61.1	03-23	158.9	59.7	10-14	160.3 1.4
10N01E34ADA	Eddie Wright	230	85.0	04-09	145.0	82.7	10-14	147.3 2.3
10N02E13BCC	Danny Clements	237	81.0	03-24	156.0	81.0	10-13	156.0 0.0
10N02E20BAB	Beal	237	80.0	04-09	157.0	82.0	10-14	155.0 - 2.0
10N03E29BBC	Wallace	236	81.7	03-24	154.3	88.0	10-16	148.0 - 6.3
10N04E26CBC	Sonny Bonds	220	26.5	04-14	193.5	21.9	10-16	198.1 4.6
11N01E21DDC	Fullbright	232	59.1	04-03	172.9	62.3	10-13	169.7 - 3.2

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Altitude of land surface (feet above sea level)	Spring 1987			Fall 1987			Net Change (feet)
			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)	
11N02E30BBB	Sonny Wolf	239	83.1	03-23	155.9	84.6	10-13	154.4	- 1.5
11N02E34CB	Claude Heeb	242	92.0	04-07	150.0	90.0	10-13	152.0	2.0
11N03E11DDD	Larry Bryan	262	71.0	03-24	191.0	--	--	--	--
11N03E13CAA	Lafarrel Wess	270	118.0	04-09	152.0	112.3	10-28	157.7	5.7
11N03E30DDC	Johny Branum	240	83.4	04-14	156.6	85.7	10-28	154.3	- 2.3
11N04E23CBC	Mrs. Earl Whitaker	215	23.0	04-09	192.0	23.5	10-28	191.5	- 0.5
11N04E36ABA	Hyneman	211	12.8	04-09	198.2	14.1	10-16	196.9	- 1.3
11N06E13DDD	Lewis Wood	215	12.0	04-09	203.0	--	--	--	--
11N07E18BC	Lewis Wood	213	--	--	--	12.0	10-13	201.0	--
12N01E22DAB	Vernon Walker	235	55.6	03-23	179.4	58.6	10-13	176.4	- 3.0
12N02E25DCC	Wimpy Farms	245	86.0	04-09	159.0	87.8	10-13	157.2	- 1.8
12N02E34CC	Elmar Cooper	245	91.0	03-24	154.0	90.0	10-13	155.0	1.0
12N03E01CCA	Skip Covington	250	90.2	04-09	159.8	77.3	10-16	172.7	12.9
12N03E04DAD	Hall	248	72.0	04-09	176.0	86.0	10-16	162.0	- 14.0
12N04E15AAA	B.L. Evans	225	21.4	04-14	203.6	--	--	--	--
12N05E16AAA	L.B. Terry	221	9.1	04-14	211.9	11.6	10-16	209.4	- 2.5
12N06E31ADD	Charles Woodruff	218	9.0	04-14	209.0	13.0	10-28	205.0	- 4.0
12N07E10CBB	Weems	220	10.2	04-14	209.8	14.5	10-14	205.5	- 4.3

POINSETT COUNTY--CONTINUED

PRAIRIE COUNTY

01N06W28DDD	Uhiren Farm	221	103.0	03-26	118.0	106.0	10-16	115.0	- 3.0
01N06W34CA	Eddie Lisko	223	106.0	03-27	117.0	103.6	10-16	119.4	2.4
01S04W28CCC	Ray Vester	206	94.0	03-26	112.0	94.3	10-16	111.7	- 0.3
01S06W07ABC	Winrock Farm	226	--	--	--	117.2	10-16	108.8	--

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987				Fall 1987			
		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)
02N06W07CBB	L.F. Smith	237	114.2	03-27	122.8	123.2	10-16	113.8	- 9.0
02N06W08DC	L.D. Branch	235	109.5	03-27	125.5	117.1	10-16	117.9	- 7.6
02S06W14BBA	C. Patterson	200	56.0	03-26	144.0	59.4	10-16	140.6	- 3.4
03N05W05DC	Jerry DeVorak	212	68.0	03-24	144.0	71.3	10-16	140.7	- 3.3
03N06W17DBB	E.H. Bednar	216	65.0	03-27	151.0	68.4	10-15	147.6	- 3.4
04N05W13	Delta Trust	210	60.6	03-24	149.4	62.4	10-15	147.6	- 1.8
04N05W14	Buck Uland	205	33.0	03-24	172.0	45.3	10-15	159.7	- 12.3
04N05W18BD	Noble Dicks	210	67.0	03-24	143.0	69.1	10-15	140.9	- 2.1
04N05W19	Duke Morton	212	71.0	03-26	141.0	75.0	10-16	137.0	- 4.0
04N05W21	Skarda Farms	210	68.0	03-24	142.0	74.5	10-15	135.5	- 6.5
04N05W27	Skarda Farms	205	52.0	03-24	153.0	56.1	10-15	148.9	- 4.1
04N05W30	William Bell	213	72.0	03-24	141.0	74.0	10-15	139.0	- 2.0
04N06W08	Reuben Kennedy	202	52.0	03-24	150.0	53.8	10-15	148.2	- 1.8
04N06W09	M.V. Owens	204	53.0	03-24	151.0	53.7	10-15	150.3	- 0.7
04N06W12	Delta Trust	205	68.0	03-26	137.0	67.0	10-15	138.0	1.0
04N06W23	George Ford	215	80.0	03-25	135.0	74.4	10-15	140.6	5.6
04N06W24	William Bell	214	79.0	03-24	135.0	77.5	10-15	136.5	1.5
04N06W24	William Bell	213	75.0	03-24	138.0	--	--	--	--
04N07W06	J.E. Bell	210	41.0	03-25	169.0	44.3	10-15	165.7	- 3.3
04N07W33	Mickey Graham	254	86.0	03-25	168.0	91.2	10-15	162.8	- 5.2
05N05W20BD	John Stephens	190	31.0	03-26	159.0	32.4	10-15	157.6	- 1.4
05N05W23DD	V.O. Calhoun	200	33.0	03-25	167.0	31.8	10-15	168.2	1.2
05N05W24DC	M. Calhoun	187	10.6	03-25	176.4	23.6	10-15	163.4	- 13.0
05N05W25AD	M. Calhoun	185	14.0	03-25	171.0	26.1	10-15	158.9	- 12.1
05N05W28AD	F. Calhoun	192	27.2	03-25	164.8	28.1	10-15	163.9	- 0.9

PRAIRIE COUNTY--CONTINUED

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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	
18N01E01ABA	Bennett	266	12.5	04-13	253.5	15.8	10-22	- 3.3
18N01E13BAB	Lamb	266	10.8	04-13	255.2	15.6	10-21	- 4.8
18N01E25BAB	Fender	265	11.8	04-13	253.2	12.0	10-21	- 0.2
18N01E27D	Fender	259	8.7	04-13	250.3	10.2	10-21	- 1.5
18N01E28BAC	Jones	259	14.6	04-13	244.4	24.0	10-21	- 9.4
18N01E29BAA	James	255	20.3	04-13	234.7	26.0	10-21	- 5.7
18N01E34CCD	Blankenship	262	12.9	04-13	249.1	14.5	10-21	- 1.6
18N02E02CBA	Robinett	277	13.8	04-13	263.2	26.5	10-22	- 12.7
18N02E06BDB	James	265	16.0	04-13	249.0	16.5	10-22	- 0.5
18N02E14BCB	Morgan	274	22.7	04-13	251.3	24.3	10-21	- 1.6
18N02E17CBB	Lemmons	265	6.4	04-13	258.6	11.4	10-21	- 5.0
18N02E20BAA	James	275	23.4	04-13	251.6	26.3	10-21	- 2.9
18N02E21CAA	Crisler	273	22.3	04-13	250.7	24.4	10-21	- 2.1
18N02E25CAB	Ford	270	24.4	04-13	245.6	24.8	10-21	- 0.4
18N02E26CBA	James	273	26.2	04-13	246.8	28.4	10-21	- 2.2
18N02E27CAB	French	271	25.5	04-13	245.5	24.2	10-21	- 1.3
18N02E32ABB	Crisler	271	21.4	04-13	249.6	22.9	10-21	- 1.5
19N02E04ADD	Throesch	267	8.8	04-13	258.2	18.3	10-22	- 9.5
19N02E09ABA	Baltz	266	19.4	04-13	246.6	12.7	10-22	- 6.7
19N02E22DAD	Rodgers	265	5.5	04-13	259.5	14.1	10-22	- 8.6
20N02E01DAC	Cagle	281	11.3	04-13	269.7	13.5	10-22	- 2.2
20N02E14ADA	Johnston	274	9.8	04-13	264.2	14.7	10-22	- 4.9
20N02E28BCD	Wren	269	10.4	04-13	258.6	9.6	10-22	- 0.8
20N03E06DAC	Wren	280	11.4	04-13	268.6	15.0	10-22	- 3.6
20N03E07AAD	Cagle	281	14.0	04-13	267.0	20.2	10-22	- 6.2
20N03E29CBC	Lamb	280	23.6	04-13	256.4	26.3	10-22	- 2.7

RANDOLPH COUNTY

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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								
20N03E33CAC	Lamb	287	23.5	04-13	263.5	25.5	10-22	261.5 - 2.0
20N03E33CCA	Lamb	287	20.2	04-13	266.8	22.4	10-22	264.6 - 2.2
ST. FRANCIS COUNTY								
04N01E05AAC	O. Hammons	205	54.2	04-08	150.8	54.4	10-22	150.6 - 0.2
04N01W17DBB	H. Watkin	210	--	--	--	56.0	10-22	154.0 --
04N01W20BBB	McKinney	200	47.4	04-08	152.6	50.7	10-22	149.3 - 3.3
04N01W24DAD	Raymond Ealey	210	--	--	--	66.0	10-22	144.0 --
04N01W25DBC	L. Pleasants	205	59.0	04-08	146.0	60.0	10-22	145.0 - 1.0
04N02E20ACC	E. Gore	210	48.0	04-09	162.0	48.0	10-22	162.0 0.0
04N04E05ABA	Lakeside Farms	200	--	--	--	33.0	10-23	167.0 --
04N04E15ABA	Lakeside Farms	200	31.0	04-06	169.0	--	--	-- --
04N05E01DAC	Terry McGraw	210	49.0	04-08	161.0	52.0	10-22	158.0 - 3.0
04N05E05AAA	Joe Merrick	205	30.0	04-06	175.0	31.0	10-23	174.0 - 1.0
04N06E11ACB	James Solaman	195	--	--	--	14.4	10-23	180.6 --
05N01E04BBA	C.E. West	210	--	--	--	46.5	10-21	163.5 --
05N01E04DAD	C.E. West	210	48.4	04-08	161.6	51.2	10-22	158.8 - 2.8
05N01E06DAD	Freda Hardin	211	--	--	--	55.0	10-21	156.0 --
05N02E04BCC	D. Cummings	205	42.8	04-08	162.2	43.0	10-22	162.0 - 0.2
05N03E18DCD	Byron Holmes	210	63.0	04-08	147.0	64.0	10-21	146.0 - 1.0
05N03E19ABA	W.E. Harrison Jr.	220	63.8	04-08	156.2	64.0	10-22	156.0 - 0.2
05N04E26B	W.B. Burch	200	--	--	--	23.0	10-23	177.0 --
5N06E02BBB	W.C. Casey	200	--	--	--	24.7	10-23	175.3 --

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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	
ST. FRANCIS COUNTY--CONTINUED								
05N06E05BBB	W.C. Casey	200	22.8	04-06	177.2	--	--	--
06N01E23BDC	Pine Tree Exp. Station	210	51.5	04-08	158.5	53.0	10-21	157.0 - 1.5
06N02E16CCB	John Drury	205	52.5	04-08	152.5	48.0	10-21	157.0 4.5
06N02E18ABA	Frazier	210	46.6	04-08	163.4	47.0	10-22	163.0 - 0.4
06N04E36CDC	D. Blaylock	200	28.6	04-06	171.4	29.6	10-23	170.4 - 1.0
06N05E28ACA	Lovis Walker	203	--	--	--	32.0	10-23	171.0 --
06N06E20AAB	Steve Bernard	205	21.9	04-06	183.1	23.5	10-23	181.5 - 1.6
07N06E11ACB	James Solaman	195	12.8	04-06	182.2	--	--	--
09N01W24DAD	Well No. 23	210	67.5	04-08	142.5	--	--	--
WHITE COUNTY								
06N04W07BB	V. Johnston	205	20.4	04-06	184.6	20.4	10-15	184.6 0.0
06N06W04BA	E. Vaughn	221	40.2	04-06	180.8	40.2	10-15	180.8 0.0
06N06W13BA	B. Duch	213	39.4	04-06	173.6	39.7	10-15	173.3 - 0.3
06N06W13DD	B. Duch	216	39.5	04-06	176.5	39.5	10-15	176.5 0.0
06N06W18BC	C. Powell	210	24.5	04-06	185.5	24.5	10-15	185.5 0.0
WOODRUFF COUNTY								
05N01W03ACA	Ashburn	215	49.2	04-12	165.8	53.0	09-10	162.0 - 3.8
05N01W13DDC	Melvin	210	56.2	04-12	153.8	58.3	09-10	151.7 - 2.1
05N01W31BCB	Wilks	210	51.4	04-12	158.6	53.0	09-10	157.0 - 1.6

Table 1.--Water levels in wells completed in the alluvial aquifer, spring 1987 and fall 1987--Continued

Location	Land owner	Spring 1987			Fall 1987			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	
WOODRUFF COUNTY--CONTINUED								
05N02W13ABD	Kennedy	195	28.7	04-12	166.3	33.7	09-10	161.3 - 5.0
05N03W25DDB	McMullan	190	10.4	04-12	179.6	15.0	09-10	175.0 - 4.6
05N03W31CBA	Gardner	178	3.3	04-12	174.7	12.9	09-10	165.1 - 9.6
06N02W19AAA	Daniels	225	42.0	04-12	183.0	49.9	09-10	175.1 - 7.9
06N04W22BDA	Rodgers	186	2.8	04-12	183.2	12.9	09-10	173.1 - 10.1
07N01W04DBB	Childress	225	48.2	04-12	176.8	53.0	09-10	172.0 - 4.8
07N02W16DDB	Burkett	206	20.4	04-12	185.6	22.3	09-10	183.7 - 1.9
07N03W05ACA	Bowen	213	19.6	04-12	193.4	27.8	09-10	185.2 - 8.2
07N03W06DDB	NIBCO	211	19.0	04-12	192.0	20.4	09-16	180.6 - 1.4
07N03W31BBA	Gregory	200	9.7	04-12	190.3	13.9	09-10	186.1 - 4.2
08N01W06CCD	Myers	220	30.4	04-12	189.6	37.1	09-10	182.9 - 6.7
08N01W10AAA	Young	211	36.5	04-12	174.5	39.5	09-10	171.5 - 3.0
08N02W15ACA	Jelks	209	14.7	04-12	194.3	22.4	09-10	186.6 - 7.7
08N02W27DDC	Swanson	213	20.1	04-12	192.9	27.5	09-10	185.5 - 7.4
09N03W21DBD	Dale	220	18.6	04-12	201.4	21.7	09-10	198.3 - 3.1
09N03W24DBC	Rouse	212	5.7	04-12	206.3	18.4	09-10	193.6 - 12.7
09N03W32ACA	Fitzhugh	217	17.6	04-12	199.4	17.5	09-10	199.5 - 0.1