GROUND-WATER LEVELS IN ARKANSAS, SPRING 1990

U.S. GEOLOGICAL SURVEY

Open-File Report 90-377

Prepared in cooperation with the

ARKANSAS GEOLOGICAL COMMISSION

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By Paul W. Westerfield

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Little Rock, Arkansas

1990

DEPARTMENT OF THE INTERIOR

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U.S. GEOLOGICAL SURVEY

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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:

Multiply inch-pound unit	By	To obtain metric unit
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
million gallons per day (Mgal/d)	0.04381	cubic meter per second (m^3/s)

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

Ground-water level measurements were made in 553 wells in Arkansas in the spring of 1990. These data are listed in tables by aquifer and then by county. For each well, the altitude of the land surface, the date of measurement, the depth to the water surface, and the altitude of the water surface are reported. Also reported are the net changes in water levels between 1989 and 1990 and between 1985 and 1990. This report also contains maps showing the average water-level change, by county, between the years 1985 and 1990 for the aquifers in the Quaternary deposits and in the Sparta and Memphis Sands. Hydrographs are included for selected wells completed in the Quaternary deposits and in the Sparta and Memphis Sands.

The aquifers in the Quaternary deposits and in the Sparta and Memphis Sands in eastern and southern Arkansas are important for agricultural, municipal, and industrial use. Water-level data contained in this report showed an average decline of 2.25 feet in the aquifer in the Quaternary deposits, for the 27 most heavily irrigated counties of eastern Arkansas, and an average decline of 3.93 feet in the aquifer in the Sparta and Memphis Sands between the years 1985 and 1990.

INTRODUCTION

This report contains records of water-level measurements from wells in Arkansas that compose the statewide observation-well network maintained by the U.S. Geological Survey in cooperation with the Arkansas Geological Commission. The observation-well network is designed to provide data for evaluation of the regional trend of water levels in each of the principal water-bearing formations or aquifers.

Water-level measurements in the 553 wells listed in this report were made during March, April, and May 1990. These data are listed by county for each aquifer. For additional information on previously published water-level data and hydrologic properties of the aquifers, the reader is referred to the reports listed in the selected references section of this report.

The aquifers in the Quaternary deposits and in the Sparta and Memphis Sands are the most heavily used in Arkansas (Holland, 1987). In 1985 ground-water use in Arkansas was 3,810 Mgal/d. The aquifer in the Quaternary deposits in the 27 most heavily irrigated counties supplied 3,480 Mgal/day (91 percent), and the aquifer in the Sparta and Memphis Sand supplied 157 Mgal/d (4 percent). The combined use of the other aquifers in Arkansas was 173 Mgal/d (5 percent).

Water levels measured from 206 wells in the aquifer in the Quaternary deposits between 1985 and 1990 in the 27 most heavily irrigated counties had an average decline of 2.25 feet (fig. 1). The greatest declines occurred in Lee and Lonoke Counties and west of Crowleys Ridge in Craighead, Cross, and Poinsett Counties. In general, declines were widespread with few counties showing an increase in water levels.

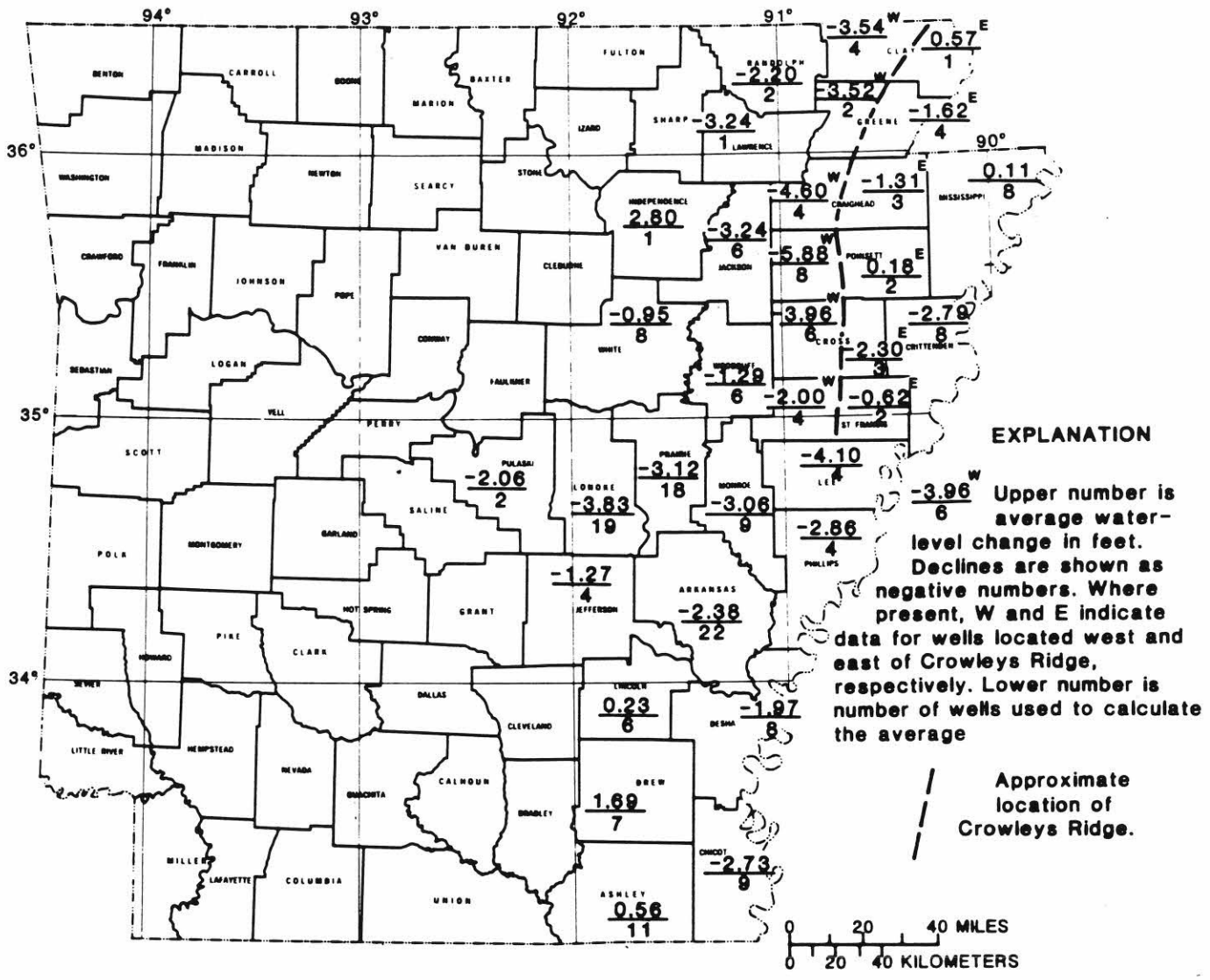

Figure 1.--Average water-level changes by county between 1985 and 1990 of wells completed in the aquifer in the Quaternary deposits.

North of about 35° latitude the Sparta Sand becomes the upper part of the Memphis Sand (Hosman and others, 1968). Water levels in the aquifer in the Sparta Sand are correlative with those in the aquifer in the Memphis Sand in Arkansas. Water levels measured in 173 wells completed in the aquifers in the Sparta and Memphis Sands of eastern and southern Arkansas declined an average of 3.93 feet between 1985 and 1990. Figure 2 shows the average ground-water level changes by county for the aquifers in the Sparta and Memphis Sands.

Hydrographs of wells show long-term trends in ground-water levels. Figures 3 and 4 are water-level hydrographs for selected wells completed in the aquifers in the Quaternary deposits and in the Sparta and Memphis Sands.

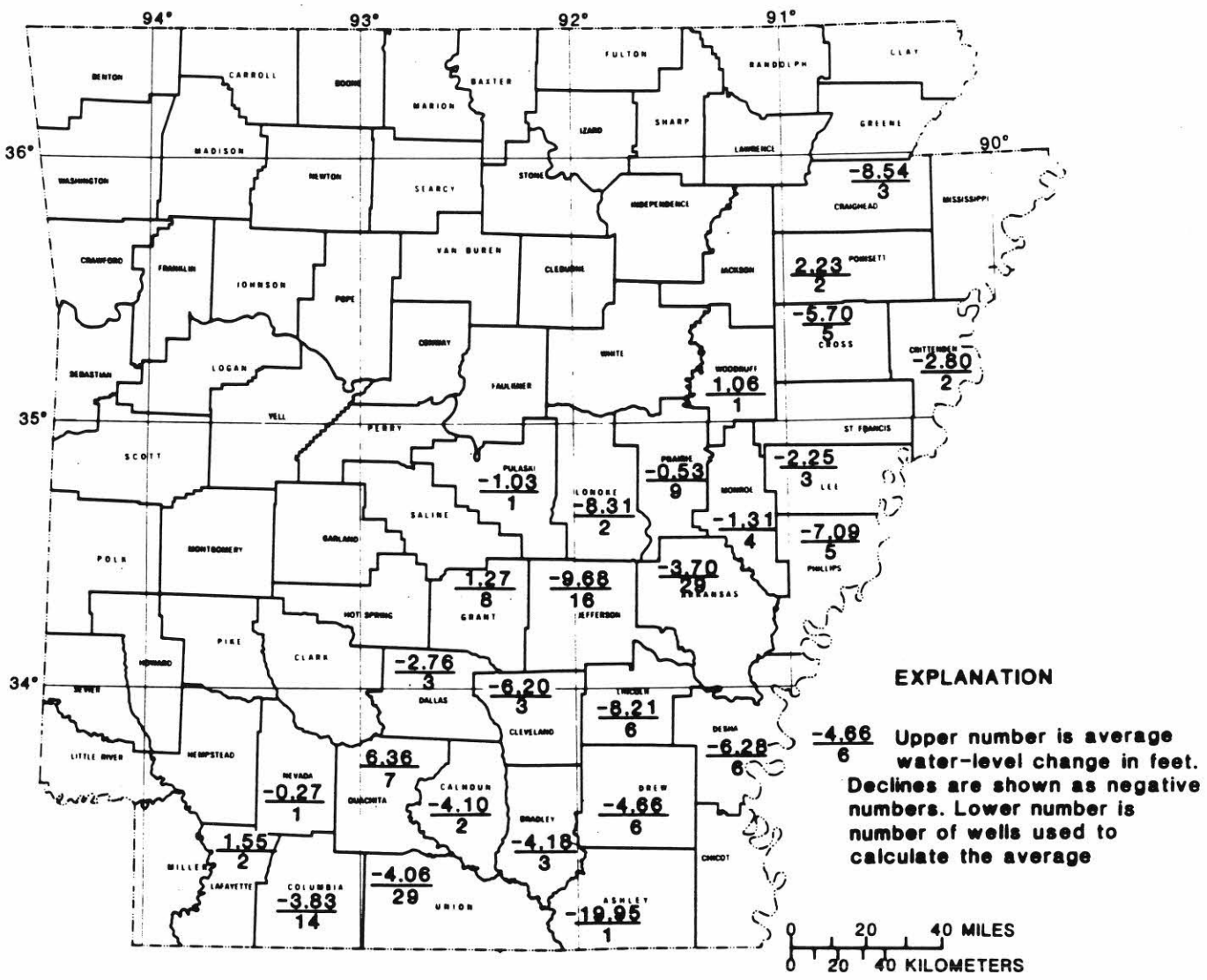

Figure 2.--Average water-level changes by county between 1985 and 1990 of wells completed in the aquifer in the Sparta and Memphis Sands.

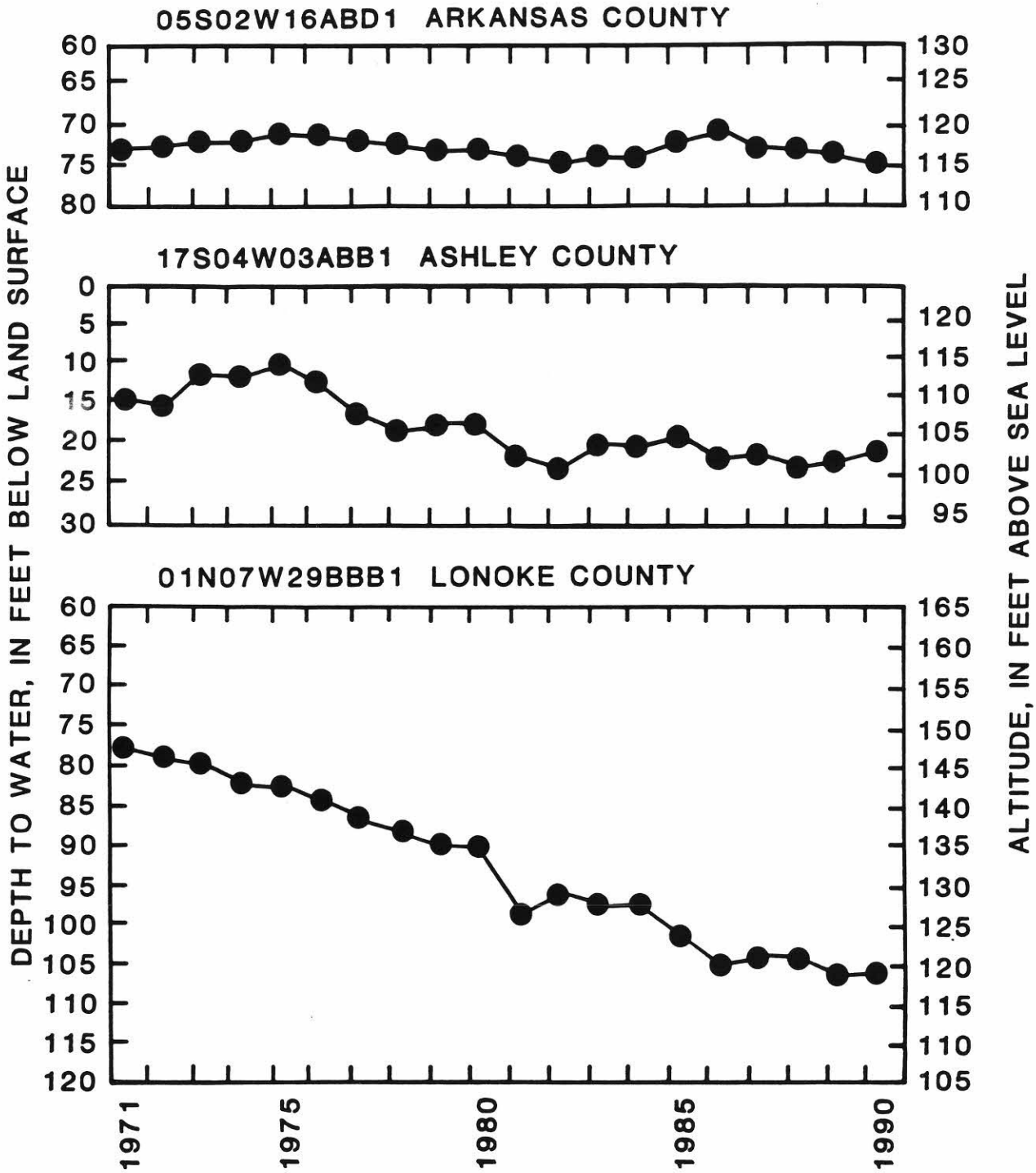

Figure 3 sheet 1 of 2.--Water-level hydrographs for selected wells completed in the aquifer in the Quaternary deposits.

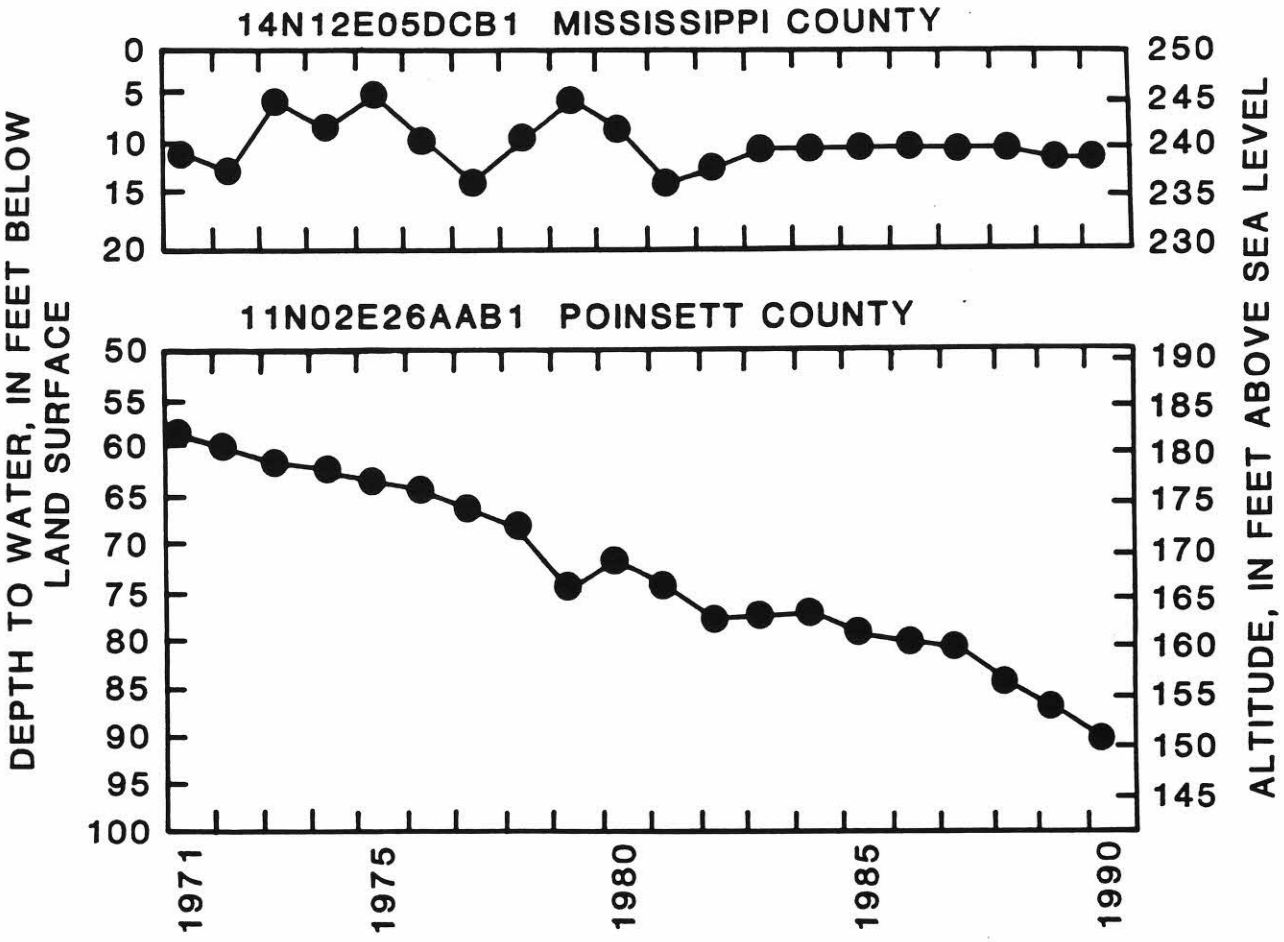

Figure 3 sheet 2 of 2.--Water-level hydrographs for selected wells completed in the aquifer in the Quaternary deposits.

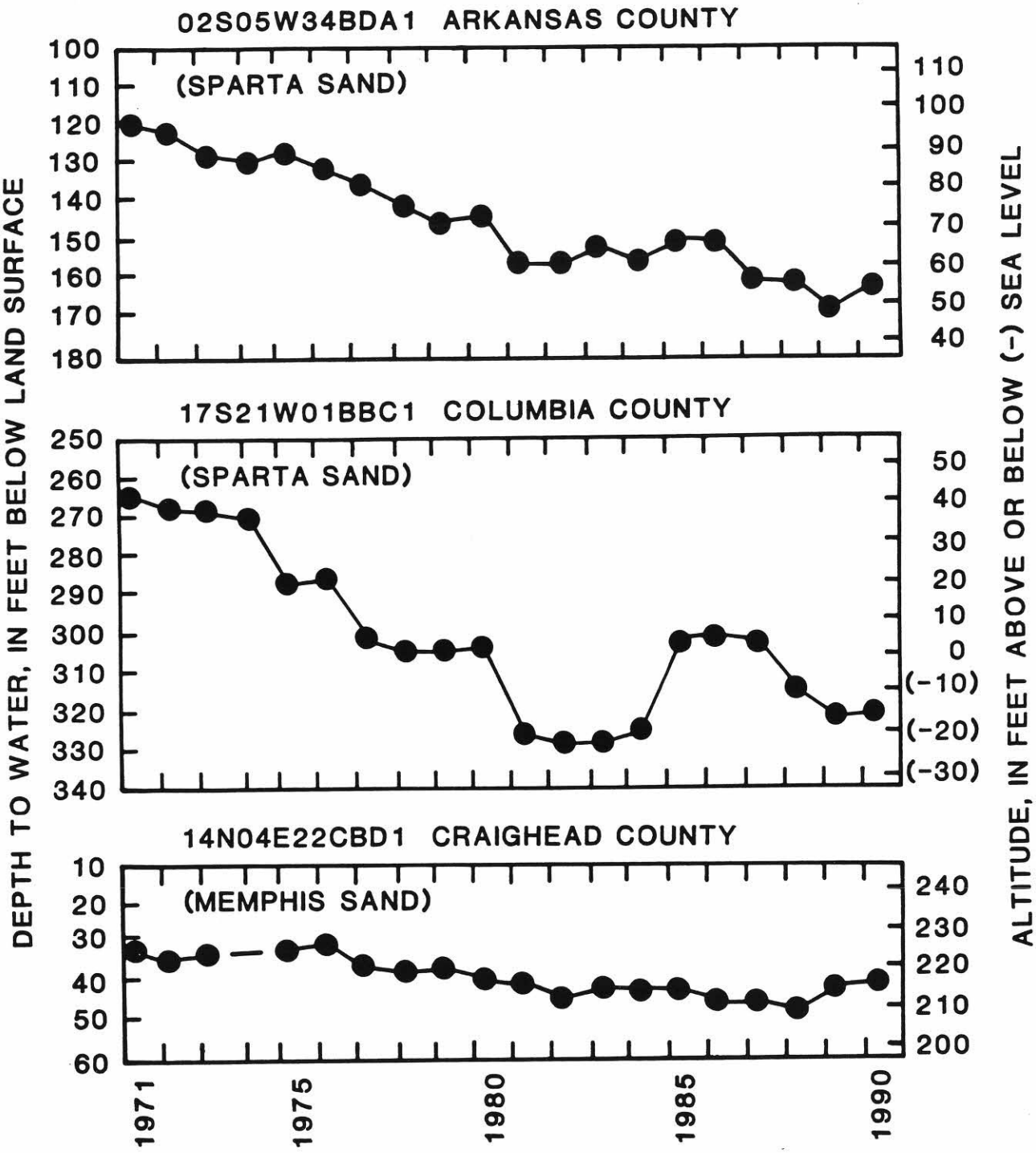

Figure 4 sheet 1 of 2.--Water-level hydrographs for selected wells completed in the aquifer in the Sparta and Memphis Sands.

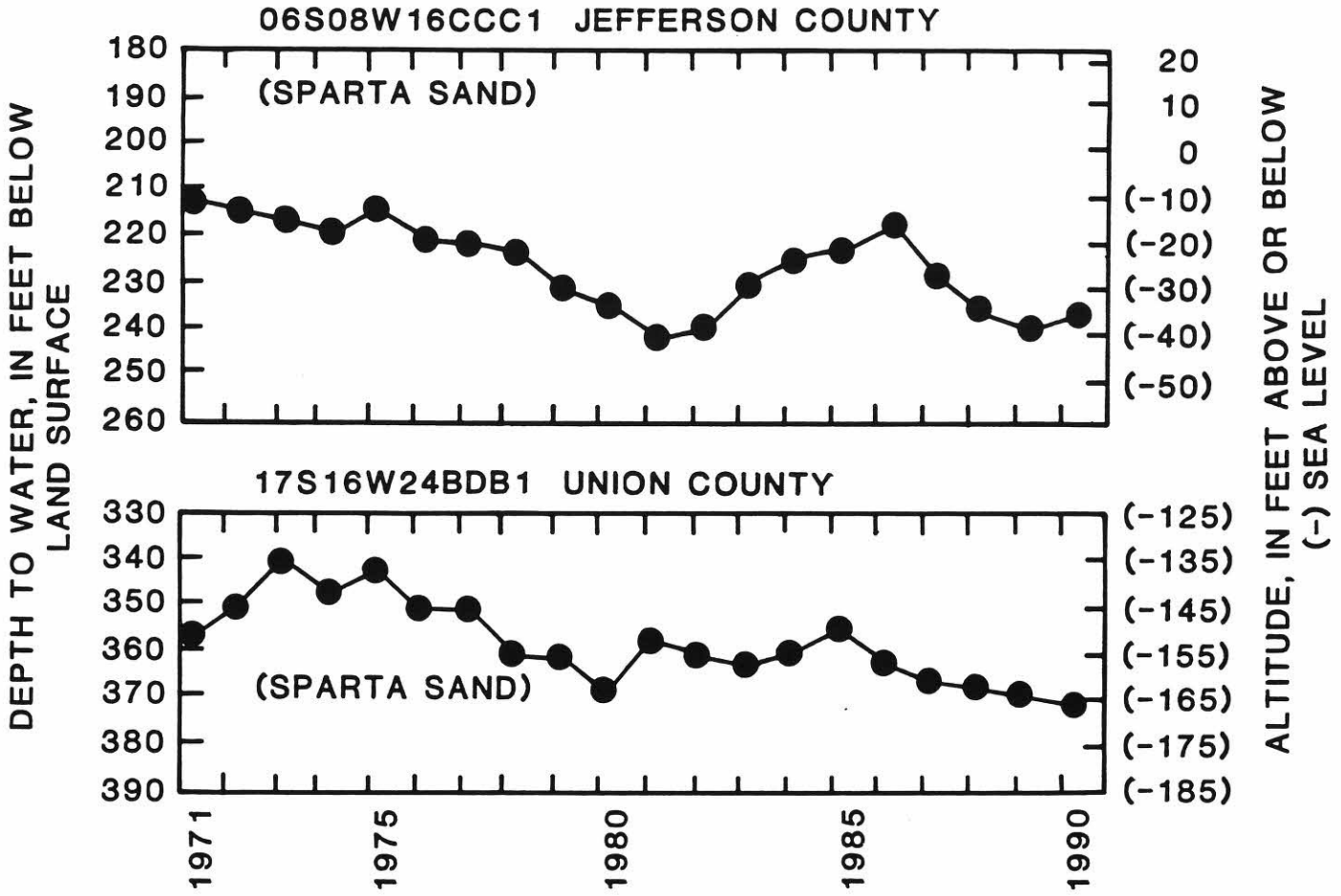

Figure 4 sheet 2 of 2.--Water-level hydrographs for selected wells completed in the aquifer in the Sparta and Memphis Sands.

DESCRIPTION OF HEADINGS

Headings in tables 1-16 are defined as follows:

Well number: An explanation is included in a separate section of this report.

Altitude of land surface: Altitude of the land surface at the well referenced to sea level.

Depth to water below land surface: Measured depth to water, in feet below land surface. A plus (+) preceding the depth-to-water value indicates the water level is above land surface.

Altitude of water level: Altitude of water level above or below (-) sea level, rounded to the nearest foot.

Net change in water level: Difference between 1989 and 1990 depth-to-water measurements and difference between 1985 and 1990 measurements. Symbol preceding number indicates a decline (-) or a rise (+) in water levels in the well.

Remarks: Where water-level data are not available for the 5-year interval, the time interval for the net-change value is indicated here.

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. 5) 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.

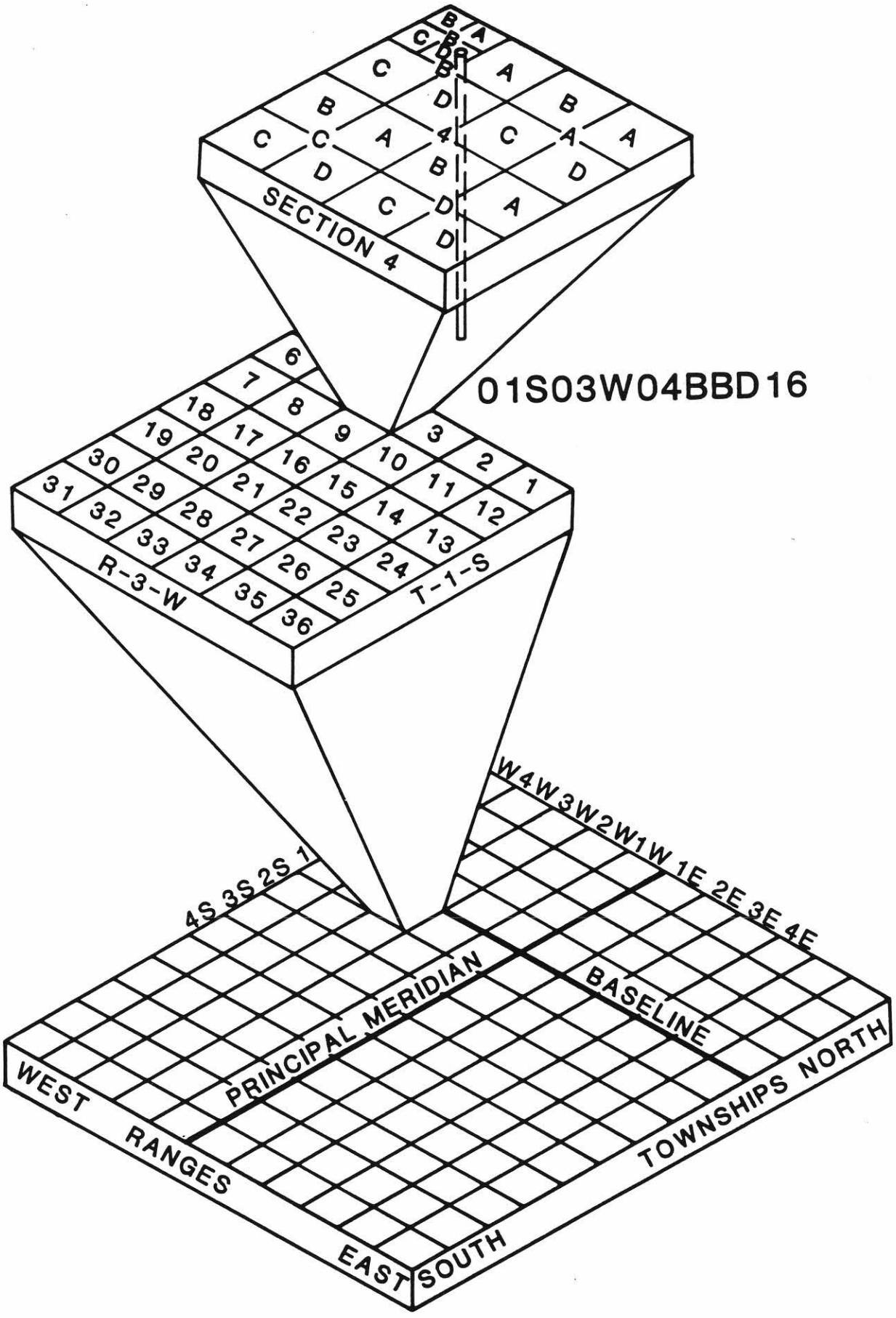

Figure 5.--Well-numbering system.

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Table 1.--Measurements of water levels in 1990 in wells completed in the aquifer in the Quaternary deposits

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
ARKANSAS COUNTY							
02S03W09DCD1	211	3-21	72.48	139	---	-3.42	
02S04W11DBB1	213	3-21	95.05	118	+1.59	-0.52	
02S05W33DCD1	214	3-22	99.80	114	---	-0.31	
03S02W18DCC1	203	3-20	70.09	133	---	-0.81	
03S02W27ABB1	197	3-20	53.04	144	---	+5.06	
03S03W21ADD1	204	3-20	89.38	115	---	-1.75	
03S04W03DCA16	205	3-20	99.17	106	---	-1.40	University of Arkansas Experiment Station.
03S06W35ADD1	190	3-22	47.28	143	+0.61	-0.35	
04S01W04ACD2	155	3-20	3.86	151	-0.11	+2.30	1987-90.
04S02W29CCC1	191	3-20	76.07	115	---	+1.72	
04S03W17ADD1	200	3-20	99.42	101	+0.18	-1.35	
04S03W32BCB1	192	3-20	100.97	91	---	-3.97	
04S04W02ABB1	200	3-21	105.76	94	---	-1.49	
04S06W15DBB1	190	3-27	27.58	162	+0.99	-0.92	
05S01W16BAB1	183	3-20	44.12	139	---	-3.02	
05S02W16ABD1	190	3-20	73.98	116	+0.44	-2.20	
05S03W30DDA1	193	3-20	96.96	96	---	-4.18	
05S04W32BBA1	191	3-20	79.53	111	-4.13	-18.39	
05S06W02DDD1	182	3-22	17.91	165	---	-0.23	
06S02W06BBA1	189	3-19	78.56	110	+0.81	-0.66	
06S02W23DCD1	188	3-19	58.07	130	+0.59	-7.67	
06S03W10BBA1	184	3-19	80.48	104	---	-1.33	1986-90.
07S02W04BBB1	176	3-19	44.80	131	+5.73	-4.82	
08S02W08ACA1	179	3-19	32.50	147	---	-1.59	
ASHLEY COUNTY							
15S04W23DBD1	128	5-02	23.57	104	-1.08	-0.69	
16S06W27BAB1	182	5-02	76.83	105	+2.52	+0.75	
17S04W03ABB1	124	5-04	17.74	106	+4.60	+1.70	
17S04W21ABA1	117	5-04	12.55	104	---	+0.42	
17S06W01ADD1	182	5-02	79.87	102	---	+0.43	

Table 1.--Measurements of water levels in 1990 in wells completed in the aquifer in the Quaternary deposits--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
ASHLEY COUNTY--Continued							
17S06W35CAC1	179	5-02	71.73	107	---	-0.35	
17S07W05CDD1	185	5-02	84.58	100	+0.24	+2.45	
18S08W01AAB1	181	5-03	82.75	98	-0.57	-0.10	
18S08W28DDD2	163	5-03	88.49	75	-1.96	-0.84	Georgia Pacific 9R recorder.
19S04W06BAB2	110	5-02	12.36	98	+3.89	+2.54	
19S06W07BCC1	134	5-03	30.53	104	+0.25	-0.14	
CHICOT COUNTY							
13S03W35BAC1	134	5-09	23.06	111	---	-9.65	
14S03W32DCB1	134	5-02	29.27	105	-2.89	-5.85	
15S03W24AAA1	115	5-02	21.40	94	-1.31	-2.42	
16S03W16DCB1	121	5-02	27.05	94	---	-2.86	
17S01E17CDA1	118	5-01	4.78	113	+9.04	-0.93	
17S02W10AAA1	114	5-01	19.64	94	---	-0.67	
18S01W19DAB1	110	5-02	12.74	97	---	-1.55	
18S01W28CCC1	111	5-01	10.96	100	---	-0.11	
19S01W15BBC1	114	5-01	12.06	102	---	-0.53	
CLAY COUNTY							
19N04E19AAA1	282	4-03	23.46	259	+1.02	-2.51	
19N08E02ABB1	26	4-03	2.97	266	---	+2.70	1986-90.
20N05E34DBA1	285	4-03	16.63	268	-0.55	-2.05	
20N08E24DDA1	276	4-03	6.03	270	+3.44	+0.57	
21N05E17ABB1	300	4-03	16.72	283	---	-5.37	
21N06E31BBA1	289	4-03	5.55	283	-0.39	-4.26	

Table 1.--Measurements of water levels in 1990 in wells completed in the aquifer in the Quaternary deposits--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
CONWAY COUNTY							
05N17W05CDD1	326	5-31	26.73	300	+6.66	+7.30	1986-90.
06N15W31ADC2	280	5-31	5.13	275	+5.68	+3.75	1986-90.
06N15W33DCC1	278	5-31	3.34	276	+2.15	+3.40	1986-90.
CRAIGHEAD COUNTY							
13N02E35DAA1	250	4-06	88.44	162	-2.84	-8.16	U.S. Geological Survey recorder.
13N03E09BAA1	267	4-06	84.29	183	-0.43	-3.79	
13N04E12ABB1	231	4-05	18.25	213	-0.07	-3.52	
13N05E21BDD1	226	4-05	8.75	217	-0.24	-0.10	Bay public supply.
13N07E20BBA1	223	4-09	3.19	220	---	-0.31	U.S. Army Corps of Engineers.
14N02E18BDD1	242	4-06	36.75	205	-0.23	-3.78	
14N05E25ABB1	238	4-05	16.30	222	---	-0.31	1986-90.
14N06E27AAB1	225	4-09	2.18	224	---	+0.82	1987-90.
15N03E19ADA1	262	4-06	33.34	229	+0.40	-2.69	
CRAWFORD COUNTY							
08N31W10BDC1	401	5-29	13.79	387	+1.03	-9.43	1986-90.
CRITTENDEN COUNTY							
05N07E28CBA1	201	4-11	13.73	187	+1.24	+0.24	
05N07E34BAB1	203	4-11	11.29	192	---	+1.01	
05N08E11CCD2	211	4-11	12.35	199	-2.22	-5.77	

Table 1.--Measurements of water levels in 1990 in wells completed in the aquifer in the Quaternary deposits--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
CRITTENDEN COUNTY--Continued							
06N07E13BAA1	205	4-18	13.16	192	---	-3.04	
07N07E31CCC1	207	4-18	22.87	184	+0.76	-3.29	
07N09E05CDD1	214	4-18	7.34	207	-0.56	-2.89	
08N07E14DAA2	215	4-18	21.16	194	---	-2.63	
09N06E11DAD1	217	4-19	33.32	184	---	-5.98	
CROSS COUNTY							
06N04E01BBB1	205	4-26	31.38	174	-0.36	-1.78	
07N01E05CDA1	217	4-16	56.88	160	-0.53	-4.69	
07N01E11AAA1	217	4-16	59.50	158	-0.67	-3.75	
07N03E05ADA1	254	4-18	97.34	157	+0.07	-3.19	
07N05E01BCB1	212	4-26	33.13	179	0.00	-3.84	
08N03E09DAD1	258	4-16	98.76	159	-0.93	-3.43	
09N01E33BBA1	225	4-16	62.99	162	-0.74	-3.39	
09N03E17DDC1	248	4-16	90.36	158	-1.11	-5.31	
09N05E32BDB1	210	4-18	25.74	184	-2.05	-1.28	
DESHA COUNTY							
09S02W26DDC1	149	5-08	11.43	138	---	-0.84	U.S. Geological Survey recorder.
09S03W17DCB1	155	5-10	22.29	133	+1.39	-3.66	U.S. Army Corps of Engineers.
09S04W06BBC1	161	5-10	18.49	143	+4.83	+0.75	
10S03W26DAC1	155	5-09	45.69	109	+0.54	-10.67	
10S04W08BDD1	163	5-09	19.76	144	+0.88	-0.63	
11S02W31DCC1	145	5-08	28.48	117	+2.62	-0.78	
11S03W31BBA1	148	5-09	15.05	133	+1.64	+1.87	
12S01W31AAB1	135	5-08	13.87	121	---	-1.83	

Table 1.--Measurements of water levels in 1990 in wells completed in the aquifer in the Quaternary deposits--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
DREW COUNTY							
11S04W08DBA1	160	5-16	17.24	143	---	+0.83	
11S04W35CCD1	154	3-28	16.88	137	+2.70	+2.40	1987-90.
11S05W08CCC1	185	5-16	32.52	152	---	+0.90	
11S06W34DAC2	209	5-16	62.90	146	---	+1.85	
12S04W03ABB1	155	5-16	15.51	139	---	+0.88	
12S04W27CCC1	148	5-16	16.65	131	---	+1.88	
12S06W15ADC2	199	5-16	64.63	134	---	-9.15	
13S04W33ABA1	140	3-29	2.38	138	+13.80	+14.65	
13S06W03DDC1	191	5-16	54.65	136	---	+1.30	1986-90.
FAULKNER COUNTY							
04N15W15ACA1	280	5-22	14.38	266	+9.48	+4.72	1987-90.
05N14W19DCC1	279	5-22	9.82	269	+9.93	+5.00	1987-90.
FRANKLIN COUNTY							
08N26W04BDA1	365	5-30	21.64	344	+3.66	+1.47	1986-90.
GREENE COUNTY							
16N06E03CCC1	258	4-05	38.18	220	-3.28	-2.69	
16N06E28ABB1	251	4-05	17.19	234	---	-1.20	
17N03E02BDB1	266	4-04	18.44	248	-0.65	-3.14	
17N04E30CDC1	265	4-04	27.09	238	-3.01	-3.89	
18N06E26CDD1	272	4-05	13.59	258	+0.50	-2.59	
18N07E20BBA1	257	4-05	3.28	254	---	0.00	

Table 1.--Measurements of water levels in 1990 in wells completed in the aquifer in the Quaternary deposits--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
INDEPENDENCE COUNTY							
14N03W14CAB1	230	4-25	-.95	231	+0.53	+2.80	
JACKSON COUNTY							
09N01W22ADD1	215	4-26	43.81	171	+0.38	-1.71	
09N02W32CBB1	220	4-26	25.80	194	-2.82	-4.70	
10N02W27BBB1	224	4-26	19.56	204	---	-1.14	
12N02W25ABB2	234	4-26	23.08	211	+0.59	-2.98	
13N01W20AAA1	242	4-25	26.73	215	-1.06	-2.65	
14N01W09AAA1	251	4-25	31.06	220	-3.54	-6.27	
JEFFERSON COUNTY							
03S08W19CBA1	214	3-26	31.98	182	+1.83	-2.06	
03S08W24BBC1	202	3-22	38.42	164	+1.86	-2.94	
03S09W06DDA1	225	3-26	33.13	192	+1.01	-1.03	
07S08W06BAA1	202	4-03	9.87	192	+2.65	+0.95	
JOHNSON COUNTY							
09N25W28DDB1	349	5-30	3.19	347	+5.10	+4.35	1986-90.
09N25W32BBA1	356	5-30	8.05	349	+5.52	+4.75	1986-90.
LAFAYETTE COUNTY							
16S25W25CAC1	224	4-23	8.33	216	+2.74	+7.55	
19S25W06ABD1	216	4-24	5.88	210	+0.49	+8.05	

Table 1.--Measurements of water levels in 1990 in wells completed in the aquifer in the Quaternary deposits--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
LAWRENCE COUNTY							
16N01E11DAC1	262	4-25	33.50	229	-0.60	-3.24	
LEE COUNTY							
01N03E02BBC1	236	4-17	37.38	199	+3.75	-3.08	
02N01E23BAA2	202	4-17	41.59	160	-0.77	-4.12	
02N03E14CCC3	232	4-19	51.76	180	+0.68	-5.89	Marianna public supply 3.
03N02E29DAD1	205	4-17	32.16	173	+1.11	-3.29	
LINCOLN COUNTY							
07S06W28CBB1	180	4-05	27.30	153	---	+2.21	
07S07W29DDD1	187	4-03	15.09	172	---	-0.14	
08S06W02ACB1	181	4-05	27.24	154	---	+3.69	
08S06W21BBC1	180	4-03	28.74	151	+1.51	+2.15	
08S07W09BBD1	189	4-03	21.49	168	-3.27	+0.51	
09S05W13CDB1	174	4-03	32.07	142	-2.88	-7.02	
LITTLE RIVER COUNTY							
13S29W05ABC1	330	4-26	25.86	304	-0.17	-1.95	
13S32W09CCC1	313	4-26	1.27	312	+2.20	+0.63	
LOGAN COUNTY							
08N25W07DAA2	360	5-29	8.57	351	+7.32	+7.11	1986-90.
08N26W16BAA1	359	5-29	6.19	353	+9.61	+7.37	1986-90.

Table 1.--Measurements of water levels in 1990 in wells completed in the aquifer in the Quaternary deposits--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
LONOKE COUNTY							
01N07W29BBB1	225	3-21	105.68	119	+0.05	-4.93	
01N09W27CCA1	229	3-21	65.48	164	-1.93	-9.41	
02N07W02BBA1	233	3-21	102.38	131	---	-2.04	
02N07W22DDD1	223	3-21	108.12	115	-0.14	-5.30	
02N08W04BBB1	243	3-21	101.20	142	-0.25	-5.78	
02N08W30CAB1	245	3-15	116.21	129	-2.05	-5.50	State Fish Hatchery. U.S. Geological Survey recorder.
02N09W17CCB1	253	3-22	76.18	177	-0.48	-1.58	1986-90.
02N10W23BCA1	242	3-21	35.72	206	+0.28	-1.37	
03N07W15DBC2	227	3-21	69.58	157	-0.86	-2.79	
03N07W31CDD2	243	3-21	106.08	137	+0.20	-4.97	
03N08W28BAB2	247	3-21	96.68	150	-0.68	-4.59	
03N09W31CBC2	257	3-22	58.94	198	-1.21	+7.68	
03N10W34ABB1	257	3-22	53.67	203	---	+1.33	
04N08W15BCB2	225	3-22	25.90	199	+0.44	-5.08	
01S07W11ADD1	210	3-21	84.90	125	-6.34	-5.47	
01S08W22CBB1	212	3-21	60.35	152	+0.52	-5.69	
01S10W01ACB1	236	3-21	37.90	198	-0.43	-4.70	
02S07W10CCB1	201	3-21	48.87	152	---	-4.00	
02S08W13BBB1	200	3-21	46.20	154	-1.00	-6.69	
02S09W12CCC1	221	3-21	46.78	174	+0.59	-3.48	
MILLER COUNTY							
15S26W34AAA1	230	4-23	1.73	228	+1.50	+6.90	
19S27W03DBB1	205	4-24	4.41	201	-0.16	+1.57	
MISSISSIPPI COUNTY							
11N09E34BBB1	235	4-17	9.83	225	---	-0.09	
12N08E08BCB1	225	4-19	5.67	219	---	-0.65	

Table 1.--Measurements of water levels in 1990 in wells completed in the aquifer in the Quaternary deposits--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
MISSISSIPPI COUNTY--Continued							
14N08E12DAB1	235	4-09	4.87	230	-0.22	-0.13	
14N10E18ABC1	236	4-09	9.93	226	---	+0.65	
14N11E03BCB1	247	4-10	3.83	243	---	+1.24	
14N12E05DCB1	250	4-10	9.46	241	-0.18	+0.11	
15N08E08DBC2	236	4-10	8.45	228	---	-0.25	Leachville public supply.
16N11E23AAD1	255	4-10	10.82	244	---	-0.03	Arkansas weight station.
MONROE COUNTY							
01N01W21CDC1	181	3-21	27.35	154	-1.14	-4.96	
01N04W33BBB2	218	3-22	89.71	128	+0.40	-0.92	
02N02W20BCC1	188	3-20	34.32	154	-1.00	-2.00	1988-90.
03N01W20ABA1	189	3-21	34.37	155	+1.09	-1.43	
03N02W31ADC1	190	3-21	33.85	156	-1.05	-3.03	
03N03W36AAA1	176	3-22	16.24	160	---	-2.85	
04N02W28DDD3	192	3-22	27.82	164	---	-0.54	
01S01W13CDD1	178	3-21	8.92	169	+3.45	-2.03	
01S02W11BCC1	180	3-21	16.25	164	-0.88	-4.72	
03S01W03DAB1	166	3-20	12.68	153	---	-7.09	
PHILLIPS COUNTY							
02S01E28CCB1	174	4-17	12.63	161	+2.49	-3.79	
02S03E15ACD1	174	3-20	8.01	166	+3.21	+1.33	U.S. Geological Survey recorder.
05S02E18BDA1	156	4-17	16.52	139	---	-2.85	
06S01E28AAA1	151	4-17	11.39	140	+7.83	-6.12	

Table 1.--Measurements of water levels in 1990 in wells completed in the aquifer in the Quaternary deposits--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
POINSETT COUNTY							
10N03E14DAA1	270	4-16	115.12	155	-1.05	-5.50	
10N03E35CDD1	275	4-18	109.08	166	---	-4.55	
10N07E22AAC1	215	4-26	21.49	194	+1.05	-0.70	
11N01E21CBC1	230	4-25	63.70	166	-1.61	-6.57	
11N02E05BDA1	245	4-26	86.48	159	---	-5.76	Weiner public supply.
11N02E26AAB1	241	4-25	91.37	150	-2.67	-10.28	
11N03E22DDD1	245	4-25	87.81	157	-0.43	-5.83	
12N01E07CDA1	236	4-26	40.12	196	-0.86	-3.02	1986-90.
12N04E18CCC1	245	4-25	77.02	168	-0.45	-5.54	
12N07E04BAA1	223	4-26	5.26	218	-0.19	+1.07	U.S. Army Corps of Engineers.
POPE COUNTY							
07N18W32DAA1	314	5-30	6.95	307	+3.30	+7.90	1986-90.
PRAIRIE COUNTY							
01N05W16AAA1	218	3-22	100.91	117	+9.44	+10.72	
01N06W18CDD1	223	3-22	108.52	114	-0.27	-5.36	
02N04W32CCB1	221	3-22	78.14	143	+1.63	-2.99	
02N05W05BBB1	221	3-23	81.49	140	-1.01	-1.06	
02N05W13AAB1	223	3-23	79.78	143	---	-12.76	
02N05W29DDB2	228	3-22	109.56	118	+0.28	-3.23	
03N04W03AAC1	187	3-23	23.54	163	---	-4.56	
03N05W03DBB1	207	3-23	54.14	153	-1.25	-8.80	
03N06W01BCB1	216	3-22	76.58	139	-0.89	-7.48	
04N04W07ADC1	195	3-23	22.40	173	---	-7.57	
04N05W07CDC1	212	3-23	67.60	144	-1.47	-4.60	
04N05W21DDD1	205	3-23	55.54	149	---	-2.71	
04N06W21BCC1	220	3-23	69.19	151	+0.47	-5.67	

Table 1.--Measurements of water levels in 1990 in wells completed in the aquifer in the Quaternary deposits--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
PRAIRIE COUNTY--Continued							
04N07W01CCC1	212	3-23	53.10	159	-1.15	-4.62	
05N05W14DCD1	205	3-23	31.25	174	-0.85	-5.36	
01S05W14BBC1	211	3-22	103.67	107	---	-2.11	
01S06W13DCD1	224	3-22	109.08	115	---	+14.63	
02S06W14BBA1	201	3-22	68.95	132	-0.13	-2.70	
PULASKI COUNTY							
02N10W05BCC1	239	3-26	20.84	218	-0.23	-0.74	Jacksonville public supply 10.
02N13W08CDD1	253	5-22	-.16	253	+2.28	+2.19	1986-90.
02S10W16CCA1	230	3-26	17.63	212	+1.57	-3.38	
RANDOLPH COUNTY							
18N01E34AAC1	266	4-03	12.31	254	-0.62	-2.36	
19N02E09DCA1	267	4-03	3.33	264	+6.02	-2.04	
ST. FRANCIS COUNTY							
04N02E03DDD3	210	4-19	33.38	177	+1.57	-1.48	Arkansas Power and Light Co.
04N05E22BBB1	200	4-19	26.07	174	-0.39	+1.56	
06N01E33ACA2	211	4-16	51.40	160	-0.52	-4.17	
06N02E15BDD1	214	4-16	47.08	168	-0.75	-4.11	
06N02E24AAA1	232	4-18	56.64	175	-0.58	+1.76	
06N05E22ACC1	200	4-18	29.82	170	-0.57	-2.80	

Table 1.--Measurements of water levels in 1990 in wells completed in the aquifer in the Quaternary deposits--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
SEBASTIAN COUNTY							
08N30W14ADD2	384	5-29	1.23	383	+8.80	+6.08	1986-90.
WHITE COUNTY							
05N07W09AAA1	205	3-23	17.67	187	+1.09	-1.57	
05N07W10CCC1	203	3-23	12.75	190	---	-1.03	
05N08W23DCB1	211	5-15	11.80	199	+3.98	-0.55	
06N06W34AAB1	213	3-23	51.55	161	-2.00	---	
06N07W17DCC1	217	5-15	13.99	203	+4.39	+1.20	
06N08W26DDB1	230	5-15	23.02	207	---	-1.22	McRae public supply 1.
07N05W32BAB1	213	5-15	23.78	190	+0.86	-2.59	
07N07W31CBB1	233	5-15	3.20	230	+2.38	+0.38	
08N05W01ABA1	218	5-15	14.51	203	---	-2.23	
WOODRUFF COUNTY							
05N01W16BCC1	211	3-22	54.47	157	-0.19	-2.51	
06N01W06BAB1	202	3-22	21.58	180	-0.07	-1.10	
06N01W33ADB2	216	3-22	55.01	161	-0.23	-2.55	
06N03W31BCB1	185	3-22	1.16	184	---	+0.71	
07N02W17CBD1	196	3-13	6.57	190	-0.20	+1.80	
08N03W31AAD1	212	3-22	22.32	190	-2.42	-4.07	
YELL COUNTY							
06N20W09CCC1	324	5-31	23.54	301	+7.71	+7.81	1986-90.

Table 2.--Measurements of water levels in 1990 in wells completed in the aquifer in the Cockfield Formation

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
ARKANSAS COUNTY							
08S02W04ACA1	165	3-19	89.67	75	0.00	-18.69	
ASHLEY COUNTY							
15S04W26CBC1	128	5-02	33.54	94	-2.35	-0.66	Town of Boydell.
15S07W32CBA2	188	5-02	83.28	105	+4.91	+3.05	Fountain Hill public supply.
17S04W10BCD2	125	5-04	27.40	98	-2.01	-3.06	Portland public supply.
17S06W07ADA1	174	5-02	73.32	101	+0.53	-0.80	Hamburg Industrial Park.
18S04W19DAA2	116	5-02	18.31	98	+6.64	+4.28	Parkdale public supply.
18S08W04BBC1	149	5-03	65.24	84	+1.16	+2.28	North Crossett public supply 2.
BRADLEY COUNTY							
14S09W04ADA1	148	5-01	46.09	102	+3.24	+13.02	
14S10W31DBA1	193	5-02	88.05	105	-0.11	-2.60	Hermitage public supply.
15S12W11CAB1	155	5-01	18.73	136	0.00	-0.94	
16S10W11DCB1	152	5-01	50.39	102	+1.76	-5.23	
16S11W11ACA1	141	5-01	23.55	117	+1.05	+1.39	

Table 2.--Measurements of water levels in 1990 in wells completed in the aquifer in the Cockfield Formation--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
CALHOUN COUNTY							
14S13W01AAA1	212	5-02	7.85	204	-0.16	-0.26	
14S14W21ACB1	132	5-01	34.98	97	-0.13	-1.03	U.S. Geological Survey recorder.
CHICOT COUNTY							
14S03W05BBA1	139	5-09	62.75	76	+2.98	+0.43	Dermott public supply.
15S03W21ABA1	122	5-02	32.14	90	-7.29	-6.29	
16S02W04BAC1	125	5-04	39.98	85	-4.00	-7.56	Lake Village public supply 1.
18S02W25ABB3	135	5-03	42.45	93	-2.40	+0.82	Eudora public supply 3.
CLEVELAND COUNTY							
08S11W02BCB1	245	5-18	147.15	98	-14.53	-16.01	Highway rest area.
11S11W23BBD1	275	5-18	39.54	235	+0.52	+0.24	
DALLAS COUNTY							
10S15W18BCC1	328	5-03	73.61	254	+1.83	-4.88	1986-90.

Table 2.--Measurements of water levels in 1990 in wells completed in the aquifer in the Cockfield Formation--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
DREW COUNTY							
13S05W35ABB1	170	3-29	83.20	87	+0.30	-1.48	
14S07W26BAB1	230	3-28	116.67	113	-0.41	-0.43	
LINCOLN COUNTY							
10S05W06CAC1	170	4-03	105.49	65	+5.08	-2.56	
UNION COUNTY							
17S13W17DDC1	193	3-27	40.15	153	+0.31	+0.22	
17S15W31DCA2	269	3-29	49.70	219	-0.06	-0.05	
17S15W36BAD1	248	3-27	39.76	208	+0.36	+0.58	Columbia Chemical.
19S10W16CDB2	82	3-27	22.66	59	+3.82	+3.99	

Table 3.--Measurements of water levels in 1990 in wells completed in the aquifer in the Sparta Sand and Memphis Sand

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
ARKANSAS COUNTY							
02S04W06CDB1	212	3-21	136.04	76	+1.25	+0.75	
02S04W23DAA1	208	3-21	124.83	83	-0.19	+4.19	
02S04W33BBB1	205	3-21	137.02	68	+5.71	+3.16	
02S05W34BDA1	216	3-15	158.54	57	+10.94	-8.05	U.S. Geological Survey recorder.
03S04W02CCB1	202	3-20	138.86	63	-3.09	-6.96	Univ. of Ark. experiment station.
03S04W26CDA1	203	3-21	130.52	72	+7.83	+5.08	Almyra public supply.
03S04W33BAA1	201	3-21	134.50	67	+2.37	-5.79	
03S05W02AAB1	210	3-21	148.52	61	+1.37	+2.66	
03S05W13BDC1	210	3-21	154.01	56	+2.41	-9.03	
03S05W15CBB1	206	3-21	148.37	58	+7.98	-5.54	
03S05W18CAB1	196	3-22	141.05	55	+8.21	-5.10	
03S06W21ACC1	195	3-22	136.35	59	+8.00	-5.21	
03S06W30BBD1	191	3-22	133.99	57	+7.07	-5.16	Humphrey public supply.
04S01W28BAA1	190	3-21	98.25	92	-4.05	-9.21	1986-90.
04S04W11BCC1	198	3-21	147.51	50	-5.30	-18.11	
04S04W19CBB1	195	3-21	144.31	51	-10.31	-10.93	
04S04W22DAA1	195	3-21	135.69	59	-0.88	-5.09	
04S05W01BAA1	196	3-21	140.36	56	+1.92	-5.11	
04S05W36DCC1	196	3-20	137.94	58	+1.67	-4.37	
05S03W04ADB1	187	3-20	126.41	61	-4.74	-7.43	DeWitt public supply.
05S04W26ACA1	188	3-20	119.30	69	+8.17	-5.26	
05S05W36DAA1	180	3-20	122.06	58	+5.21	-4.73	
06S02W06ABB1	181	3-19	101.20	80	-1.04	-4.75	
06S02W22CDB1	186	3-19	97.14	89	+1.32	-5.00	
07S02W28ABA1	181	3-19	91.96	89	+2.66	-4.75	
07S03W06ABC1	185	3-19	112.52	72	+6.04	-2.23	Gillett public supply.
08S02W01CBA1	165	3-19	67.96	97	+9.11	+1.13	Lock and Dam 1.
08S03WT2299	175	3-19	98.57	76	+2.35	-5.57	
08S03WT2307	176	3-19	91.28	85	+7.92	+3.45	
08S03WT2404	168	3-19	70.90	97	+19.99	+6.45	

Table 3.--Measurements of water levels in 1990 in wells completed in the aquifer in the Sparta Sand and Memphis Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
ASHLEY COUNTY							
15S07W32CDD1	190	5-09	154.70	35	-17.73	-19.95	Fountain Hill public supply.
BRADLEY COUNTY							
13S09W06ACA1	208	5-01	155.28	53	-13.81	-10.08	Warren public supply.
13S11W17BCD1	250	5-02	179.84	70	-0.64	-1.21	Banks public supply.
16S12W21CAA1	100	4-01	64.35	36	-1.31	-1.25	
CALHOUN COUNTY							
11S14W12CAC2	310	5-04	141.19	169	-1.67	+1.99	1987-90.
13S13W32CDA1	208	5-01	168.90	39	+6.95	-12.20	Hampton public supply.
14S13W12CCB1	205	5-01	157.05	48	-1.05	+3.99	Harrell public supply.
CLEVELAND COUNTY							
09S11W01DCA1	230	5-18	184.84	45	-0.14	-9.14	1986-90.
09S11W01DDA2	266	5-18	210.68	55	-7.04	-10.60	1986-90.
10S09W23CDC1	220	5-16	149.87	70	+0.58	-2.04	Highway 15 water user.
10S12W12BDD1	220	5-18	108.60	111	-3.35	-3.54	Kingsland public supply.
11S11W16AAB1	303	5-18	206.20	97	-9.94	-13.01	New Edinburg public supply.

Table 3.--Measurements of water levels in 1990 in wells completed in the aquifer in the Sparta Sand and Memphis Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
COLUMBIA COUNTY							
15S20W20CCB1	372	4-03	214.77	157	+0.13	-0.11	1986-90.
16S20W18ACD1	337	4-03	262.05	75	---	-5.54	McNeil public supply 2.
16S21W14CBB1	281	4-03	194.27	87	+3.33	+14.35	Waldo public supply.
16S21W15CBC1	285	4-03	195.23	90	-2.01	-0.63	
16S21W35CCD1	275	3-29	288.05	-13	+8.87	-23.64	Magnolia public supply 9.
16S22W22CCD1	340	4-03	129.20	211	+1.72	-0.48	1986-90.
17S19W15ABD1	325	3-29	293.75	31	-3.71	-6.79	Village Corp.
17S19W30ABB1	248	3-29	215.56	32	-1.08	-5.02	Magnolia public supply 10.
17S20W15ABB1	350	3-28	353.75	-4	+1.35	-12.22	Carter Oil Co.
17S20W17CDA1	325	3-29	314.40	11	-1.68	-12.24	Magnolia public supply 8.
17S21W01BBC1	305	3-29	320.20	-15	+1.83	-17.62	Southern Arkansas University 3.
17S21W11DCC2	303	3-29	336.81	-34	-1.74	-11.34	Magnolia public supply 2.
18S19W17ACC1	288	3-29	246.66	41	+0.41	-1.23	Hiwan Oil & Gas Co.
18S20W06DDC1	300	3-22	289.40	11	-0.55	+11.84	Magnolia Country Club.
18S20W18ABD1	276	3-29	286.24	-10	-1.17	+16.73	Bromet Co.
19S23W11CDA2	248	3-28	52.81	195	+0.22	-0.31	
CRAIGHEAD COUNTY							
13N04E05DCC1	340	4-06	134.30	206	-1.28	-8.05	
14N04E22CBD1	256	4-05	39.58	216	+1.08	+1.75	
14N04E28DBD1	254	4-06	60.09	194	-9.48	-19.32	

Table 3.--Measurements of water levels in 1990 in wells completed in the aquifer in the Sparta Sand and Memphis Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
CRITTENDEN COUNTY							
05N08E11CCA2	211	4-11	23.09	188	+0.29	-3.18	
06N07E01DAD2	209	4-18	19.77	189	+1.16	-2.41	
CROSS COUNTY							
06N04E06ACA1	358	4-18	186.95	171	+4.44	-6.08	Village Creek State Park.
07N03E16CCC3	253	4-18	88.38	165	-5.16	-2.62	Wynne public supply 3.
07N05E04ADD1	209	4-18	26.74	182	-1.63	-0.83	1986-90.
09N01E16CAC1	234	4-18	71.97	162	-0.67	-3.20	Hickory Ridge public supply.
09N03E22AAD1	278	4-18	112.19	166	-1.58	-5.46	Cherry Valley public supply 1.
09N04E30DCA1	429	4-26	262.11	167	-11.28	-11.16	
DALLAS COUNTY							
08S16W27DDD1	272	5-03	30.46	242	+0.61	-1.17	
09S13W35CCD1	200	5-04	63.72	136	-0.95	-1.96	
10S13W34ACA2	272	5-04	143.80	128	-0.69	-5.15	Fordyce public supply.
DESHA COUNTY							
09S02W26AAC1	153	5-10	61.02	92	+1.77	-4.96	Watson public supply.
09S04W08DDA1	163	5-10	94.72	68	-11.93	-6.93	Arkansas State Police station.
09S04W28DDD1	165	5-10	97.31	68	-10.46	-13.16	Dumas public supply.

Table 3.--Measurements of water levels in 1990 in wells completed in the aquifer in the Sparta Sand and Memphis Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
DESHA COUNTY--Continued							
10S02W26CCC2	148	5-08	63.68	84	-3.80	-4.16	U.S. Fish and Wildlife Service.
11S02W03CCA1	139	5-08	53.28	86	+6.70	+2.30	
12S03W34DAD1	147	5-10	76.92	70	-5.86	-10.75	McGehee public supply 3.
DREW COUNTY							
11S04W25DAA1	148	3-28	73.89	74	-0.92	-3.50	Tillar public supply.
11S06W11DBC1	203	3-28	135.58	67	-0.57	-4.96	
12S06W32DAD1	212	3-29	164.28	48	+24.01	-7.80	Former prisoner of war camp.
13S05W36ACB1	169	3-29	79.18	90	+2.49	+1.85	Collins public supply.
13S07W10BCA1	265	5-16	204.96	60	-2.59	-9.19	
15S04W12DDA1	125	3-29	55.86	69	-1.84	-4.39	
GRANT COUNTY							
03S13W12AAA1	361	3-23	126.64	234	-0.36	-1.70	1986-90.
03S14W20ADB1	320	3-27	25.37	295	-1.73	+0.79	
03S14W35DCA1	320	3-27	68.88	251	-1.09	-0.39	1986-90.
04S14W14ADC1	310	3-27	78.39	232	-5.50	+3.33	
05S13W03CDA4	281	3-23	101.09	180	+2.23	+5.42	Sheridan public supply 2.
05S13W03DBC1	260	3-23	78.08	182	+3.17	+0.98	Sheridan public supply 3.
05S14W06DCC1	293	3-23	86.04	207	-2.38	+1.46	Prattsville public supply
05S15W05ABD1	232	3-23	12.99	219	-11.29	+3.31	Poyen public supply.

Table 3.--Measurements of water levels in 1990 in wells completed in the aquifer in the Sparta Sand and Memphis Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
			GRANT COUNTY--Continued				
06S11W05ACA1	280	3-23	191.68	88	-6.09	-4.83	Center Grove public supply.
06S15W26ACA1	280	3-23	66.88	213	-4.38	-0.32	Leola public supply.
			JEFFERSON COUNTY				
03S08W19BBD1	215	3-26	154.88	60	-3.08	-11.58	Tucker Prison.
04S07W17BCC1	200	3-22	164.99	35	-2.75	-1.58	Wabbaseka public supply.
04S10W22BDD1	244	4-05	173.28	71	+9.22	-1.78	Pine Bluff Arsenal 11.
04S10W29ADB1	267	4-05	192.45	75	+9.01	-6.75	Pine Bluff Arsenal 9.
04S11W14BAD1	400	4-05	292.59	107	+6.74	-3.89	Jefferson public supply 1.
05S08W29BDD1	195	3-26	241.61	-47	-6.35	-9.46	U.S. Army Corps of Engineers recreation area.
05S08W30ADB1	221	4-05	263.30	-42	+5.29	+0.70	Lock and Dam 4.
05S08W30CBA1	207	4-05	271.05	-64	+3.86	-20.03	International Paper Co. 7.
05S09W19BAD1	219	4-05	255.40	-36	-0.75	-45.40	Dierks Paper Co. 1.
05S09W35AAB1	205	4-05	263.98	-59	+6.11	-21.73	International Paper Co. 5.
05S10W16DBD1	300	4-05	255.55	44	+1.90	-2.72	1986-90.
06S06W20CAA1	193	3-26	147.36	46	+4.34	+2.44	Lock and Dam 3.
06S08W10CAC1	202	4-03	241.76	-39	+2.06	-13.41	1986-90.
06S08W16CCC1	202	4-03	236.84	-34	+2.11	-14.54	International Paper Co. 3.
06S08W25ADC1	203	4-03	204.07	-1	+3.68	-8.08	International Paper Co. 2.
06S09W17CCA1	234	4-04	264.03	-30	-4.53	-11.13	General Water Works.
06S10W23ACD1	232	5-17	201.30	31	+5.04	-2.64	1986-90.

Table 3.--Measurements of water levels in 1990 in wells completed in the aquifer in the Sparta Sand and Memphis Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
JEFFERSON COUNTY--Continued							
07S07W24BAB1	188	5-16	147.31	41	+15.26	+3.11	Tamo public supply.
07S09W35CCB1	270	4-04	229.93	40	-6.16	-5.23	Highway 15 public supply 1.
LAFAYETTE COUNTY							
16S24W19DBC1	265	4-23	49.35	216	0.00	+1.87	
18S23W29ACC1	255	4-24	12.19	243	+2.41	+3.48	1986-90.
20S23W05ADB1	242	4-24	38.58	203	+0.52	+1.23	
LEE COUNTY							
02N03E14CCC4	232	4-19	66.78	165	+0.68	-3.10	Marianna public supply 4.
03N03E28CDB1	207	4-19	46.99	160	+3.60	-2.20	Marianna public supply 5.
03N05E19ADA1	200	4-19	26.28	174	-0.59	-1.46	
LINCOLN COUNTY							
07S07W30CDC1	208	4-03	164.04	44	+0.46	-10.54	Tarry public supply.
08S05W03BAA2	180	4-03	129.42	51	-4.17	-14.25	Cummins Prison.
08S05W35ACC1	165	4-03	87.64	77	+0.69	-6.18	Gould public supply.
08S08W35DBB1	240	4-03	196.79	43	-6.58	-8.91	Yorktown public supply.
09S08W05CBD1	245	4-03	195.29	50	+0.21	-7.28	Mississippi River Fuel Corp.
10S05W05ADB1	171	4-03	103.64	67	-0.64	-2.14	

Table 3.--Measurements of water levels in 1990 in wells completed in the aquifer in the Sparta Sand and Memphis Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
LONOKE COUNTY							
01N07W03BCC1	223	3-21	110.58	112	-0.29	-3.48	1986-90.
02N07W22DBA1	227	3-21	110.64	116	-0.22	-3.96	1987-90.
02N09W35BBC1	234	3-21	77.50	157	+7.31	-9.86	Anderson Fish Farm.
02S08W16BDA1	216	3-23	110.15	106	-1.93	-6.76	Coy public supply.
MONROE COUNTY							
01N03W14CCB1	172	3-23	55.74	116	+3.13	-1.59	Clarendon public supply.
03N02W12CBC1	186	3-21	26.84	159	+0.15	-1.73	U.S. Geological Survey.
04N02W28DDD4	192	3-22	25.22	167	+0.34	-0.45	
04N02W30BAC1	180	3-22	12.55	167	+0.09	-1.48	Brinkley public supply well 8.
NEVADA COUNTY							
13S20W36DCC1	350	4-23	106.65	243	+0.13	+0.09	1986-90.
14S21W32DCD1	370	4-23	111.50	259	+0.21	-0.27	
OUACHITA COUNTY							
12S16W12ADB1	159	5-04	23.90	135	+0.47	+1.93	
12S18W19CDC1	235	5-03	18.29	217	+20.27	+27.68	
14S17W02ABB1	120	5-03	106.14	14	-9.22	+13.40	International Paper Co. 1B.
14S17W05CAD1	157	5-03	34.98	122	+1.03	-0.44	Arkansas State Highway and Transportation Department.
14S19W29ABB1	280	5-02	83.29	197	+1.15	+2.99	

Table 3.--Measurements of water levels in 1990 in wells completed in the aquifer in the Sparta Sand and Memphis Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
OUACHITA COUNTY--Continued							
15S17W20DDB1	195	5-02	125.45	70	+0.23	+2.83	
15S19W10DCC1	210	5-03	67.49	143	+0.09	-3.84	Stephens public supply.
PHILLIPS COUNTY							
01S02E32DDC1	211	4-17	69.66	141	+1.64	-1.61	Marvell public supply.
02S04E02DBA1	250	4-17	100.23	150	+3.46	+2.84	West Helena public supply 9.
02S05E16BCB1	190	4-17	48.90	141	-7.61	-9.52	Helena Cotton Oil Co.
02S05E29CCC1	179	3-20	46.40	133	-3.24	-19.87	Arcadian Corp.
04S02E25CCC1	166	4-17	38.72	127	-0.51	-7.31	Elaine public supply.
POINSETT COUNTY							
10N01E15DBB1	232	4-18	75.07	157	-1.73	-3.94	Fisher public supply.
11N03E25ACC1	273	4-25	94.97	178	+18.35	+10.63	Harrisburg public supply 3.
PRAIRIE COUNTY							
01N05W19CDC1	212	3-22	121.70	90	+5.76	-0.14	
01N06W02ABB1	223	3-22	100.30	123	-0.29	-1.27	
02N04W19ACB1	211	3-22	82.88	128	-0.42	-4.15	
02N06W20BCB1	236	3-22	120.02	116	-0.21	-4.23	
02N06W21DAD1	232	3-22	110.40	122	-1.99	-6.46	
02N06W22BDD1	233	3-22	107.49	126	-0.91	+14.10	

Table 3.--Measurements of water levels in 1990 in wells completed in the aquifer in the Sparta Sand and Memphis Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
PRAIRIE COUNTY--Continued							
01S05W06BCB1	220	3-22	132.93	87	+6.72	-4.81	
01S05W20ABB1	220	3-22	135.18	85	+7.78	+2.86	
01S06W11DBD1	226	3-22	141.78	84	+7.33	-0.68	
PULASKI COUNTY							
01N11W24ACD1	237	3-26	10.74	226	+2.69	-1.03	Willow Beach recreation area.
SALINE COUNTY							
03S14W05CCC1	315	3-27	6.17	309	-0.01	+12.20	1986-90.
UNION COUNTY							
16S14W15CAB1	94	3-26	140.51	-47	-2.60	-13.55	Calion public supply.
16S15W20DAA1	190	3-26	274.62	-85	-2.10	+1.25	Norphlet public supply 2.
16S16W02ABC1	116	3-26	156.55	-41	+2.10	+6.24	Smackover public supply 5.
16S18W34ABC2	248	4-04	188.02	60	+1.08	-2.14	Mt. Holly public supply 2.
17S12W32BBC1	230	3-27	233.75	-4	-3.03	-8.29	New London Water Association.
17S13W31BAC1	216	3-27	293.73	-78	-7.97	-8.85	Lawson-Urbana.
17S14W10DCC1	180	3-27	88.07	92	-0.21	+0.93	
17S14W15ABA1	180	3-27	87.23	93	-0.31	+2.62	
17S15W28DBA1	235	3-27	402.70	-168	-0.03	-14.08	El Dorado public supply 8.

Table 3.--Measurements of water levels in 1990 in wells completed in the aquifer in the Sparta Sand and Memphis Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
UNION COUNTY--Continued							
17S15W29CDC1	220	3-27	391.09	-171	-3.16	-3.88	
17S15W31DCA1	272	3-29	442.57	-171	-2.51	-15.52	TOSCO.
17S15W31DCA3	269	3-29	170.57	98	-0.29	-4.27	TOSCO.
17S16W24BDB1	205	3-27	370.58	-166	-2.70	-15.67	El Dorado public supply 17.
17S17W25DBA2	250	3-26	341.65	-92	-4.85	+2.29	Goodwin Airport.
17S17W30DCD1	280	4-04	301.80	-22	+1.30	-0.38	Marysville Water District Assocation.
18S11W09ABC1	135	3-27	84.16	51	-1.02	-3.89	
18S12W33BBB1	112	3-27	118.85	-7	-0.42	+12.88	Strong public supply 3.
18S15W07BAC2	255	4-04	347.93	-93	-2.73	-9.97	K. Buchanan 2.
18S15W08ABB1	205	3-26	345.74	-141	+5.21	+5.45	Gay Oil Co. (W.D. Frisby).
18S15W33ADA1	253	4-02	367.52	-115	-4.78	-14.94	Faircrest public supply.
18S15W35DAC1	201	4-02	287.45	-86	-2.81	-4.25	Faircrest Water User's Assoc.
18S16W12ACB1	303	4-02	453.73	-151	-3.40	-12.94	Parker Chapel 1.
18S16W28BBB1	225	4-02	320.36	-95	-1.81	-7.68	Newell-Wesson public supply.
18S17W18BBD1	270	3-29	313.39	-43	-0.27	-7.97	Shuler No. 3.
18S17W22BDD1	285	3-21	347.49	-62	-0.49	-5.89	U.S. Geological Survey recorder.
19S10W16CDB1	82	3-27	69.87	12	+1.86	+2.26	Felsenthal public supply 1.
19S11W25AAA1	135	3-27	130.95	4	+1.05	+7.44	Huttig public supply 2.
19S15W01CCA1	182	4-02	64.02	118	-0.72	+3.21	
19S16W35DDC1	175	4-02	219.94	-45	-0.76	-8.26	Junction City public supply.

Table 3.--Measurements of water levels in 1990 in wells completed in the aquifer in the Sparta Sand and Memphis Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
WOODRUFF COUNTY							
05N02W31DCB3	193	3-22	10.58	182	+1.64	+1.06	Cotton Plant public supply.

Table 4.--Measurements of water levels in 1990 in wells completed in the aquifer in the Cane River Formation

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
COLUMBIA COUNTY							
16S21W16BCA2	320	4-03	109.98	210	-0.24	-1.26	Waldo public supply.
DALLAS COUNTY							
09S17W28ADB1	172	5-03	112.93	59	+5.91	-8.08	1986-90.
HEMPSTEAD COUNTY							
14S24W23AAA1	372	4-24	63.80	308	+0.90	+0.37	
LAFAYETTE COUNTY							
19S25W13CDB2	255	4-24	106.36	149	-0.77	+4.96	Bradley public supply.
MILLER COUNTY							
16S27W19AAA1	373	4-26	64.91	308	+0.79	+2.22	
16S27W31BDC1	314	4-25	28.44	286	+0.70	+0.05	
18S26W27BBA1	210	4-25	17.19	193	-1.02	-1.66	

Table 5.--Measurements of water levels in 1990 in wells completed in the aquifer in the Carrizo Sand

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
DALLAS COUNTY							
08S17W18CAA1	286	5-03	46.35	240	+3.75	-0.27	
HOT SPRING COUNTY							
06S17W34ABB1	364	3-23	91.97	272	-0.18	-12.47	Texas Eastern.
JEFFERSON COUNTY							
05S08W19DCD1	205	4-05	27.79	177	-0.35	-3.54	International Paper Co.

Table 6.--Measurements of water levels in 1990 in wells completed in the aquifer in the Wilcox Group, including the "1,400-foot" sand

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
CLAY COUNTY							
19N07E23DCC1	280	4-04	12.28	268	+1.42	+0.09	Rector old public supply 1.
CRAIGHEAD COUNTY							
13N07E14BBA2	221	4-09	16.81	204	-0.40	-2.56	Caraway public supply 2.
14N06E27ACB2	227	4-09	23.47	204	-1.70	-5.10	Lake City public supply 2.
CRITTENDEN COUNTY							
05N07E01ABB1	207	4-18	41.36	166	-3.02	-6.84	
05N07E29ACC1	200	4-11	35.31	165	-2.39	-6.39	
06N09E07CAC1	210	4-18	69.09	141	-2.95	-4.14	West Memphis public supply 5.
07N07E14CCC1	223	4-19	47.96	175	+1.42	-1.84	Crawfordsville public supply.
07N08E24CAB1	221	4-18	57.46	164	-4.05	-11.81	Marion public supply 1.
08N06E33CBD1	215	4-19	37.91	177	-0.89	-5.63	Earle public supply.
GREENE COUNTY							
17N04E36BCA1	505	4-04	159.69	345	-1.32	-10.79	Western Greene County Water Association.
17N06E31DCB1	285	4-05	117.34	168	-19.19	-21.24	Paragould public supply 1.

Table 6.--Measurements of water levels in 1990 in wells completed in the aquifer in the Wilcox Group, including the "1,400-foot" sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
			LEE COUNTY				
01N04E09DCC1	204	4-18	34.76	169	-1.38	-5.24	U.S. Geological Survey.
			LONOKE COUNTY				
04N09W28CCD1	325	3-22	54.10	271	-0.62	-2.05	E.M. Cherry.
			MISSISSIPPI COUNTY				
10N08E17ADD1	225	4-19	33.51	191	-1.60	+4.71	Birdsong-Whitten Water Assoc.
11N08E10AAC1	220	4-19	26.57	193	---	-6.64	Dyess public supply.
11N09E33AAB1	237	4-17	41.91	195	-1.49	-6.34	Bassett public supply.
11N10E20ADA1	235	4-17	37.89	197	-0.48	-3.91	Wilson public supply.
12N09E11DBB1	230	4-17	25.87	204	+0.65	-1.22	Keiser public supply.
12N11E17CDD1	245	4-17	42.43	203	0.00	+0.49	Cargill Inc.
13N11E08DDA1	245	4-17	32.78	212	+3.07	-6.44	1987-90.
14N11E20CCA1	240	4-17	28.44	212	-1.27	-4.43	Burdette public supply.
15N08E08DBC1	236	4-10	8.43	228	---	-0.11	Leachville public supply.
15N09E31ACD1	240	4-10	28.53	211	-3.25	-3.74	Manila public supply.
15N10E01ADD1	248	4-10	21.64	226	-1.41	-1.54	Gosnell public supply.
16N11E22CCC1	254	4-10	25.42	229	-0.26	-2.99	Ark-Mo Power Co.

Table 6.--Measurements of water levels in 1990 in wells completed in the aquifer in the Wilcox Group, including the "1,400-foot" sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
POINSETT COUNTY							
10N07E16CBB2	218	4-26	36.47	182	-0.79	-6.83	Tyronza public supply 3.
11N06E35CDA3	215	4-26	26.52	188	+4.02	+0.15	Marked Tree public supply 3.
11N07E03BDD1	216	4-26	12.92	203	+0.10	+13.37	Lepanto public supply 2.
12N05E13BBB1	222	4-25	29.63	192	-1.03	-5.16	Trumann public supply 1.
ST. FRANCIS COUNTY							
04N06E21BAD2	201	4-18	32.62	168	-1.44	-5.69	Hughes public supply 2.

Table 7.--Measurements of water levels in 1990 in wells completed in the aquifer in the Nacatoch Sand

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
CLARK COUNTY							
08S19W09ACC1	177	4-27	-3.05	180	-1.25	-1.75	Flowing.
09S20W16DDC1	233	4-27	80.94	152	-2.65	+4.56	Arkla Chemical Corp.
CLAY COUNTY							
19N04E01BDB1	280	4-04	9.85	270	+0.27	-3.09	Knobel public supply 2.
19N07E23DBC1	290	4-04	36.11	254	+6.91	-6.11	
20N08E10ABC1	340	4-03	71.89	268	+0.10	-5.89	
20N08E28BDC1	286	4-03	23.89	262	+3.05	-6.72	Greenway public supply.
21N06E23DAC1	300	4-03	20.03	280	-0.20	-2.27	McDougal public supply.
21N09E18DBA1	295	4-04	11.42	284	+2.39	+26.03	St. Francis public supply.
HEMPSTEAD COUNTY							
13S24W04AAA1	361	4-24	164.37	197	+0.32	-0.59	1986-90.
MILLER COUNTY							
14S28W13CCB1	266	4-27	25.91	240	-0.69	-1.00	

Table 7.--Measurements of water levels in 1990 in wells completed in the aquifer in the Nacatoch Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
NEVADA COUNTY							
11S22W08DAC2	306	4-23	38.71	267	+1.28	+88.91	Prescott public supply 4.
12S22W03CAA1	233	4-23	1.59	231	+2.51	+18.10	

Table 8.--Measurements of water levels in 1990 in wells completed in the aquifer in the Tokio Formation

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
HEMPSTEAD COUNTY							
09S23W33CDA1	270	4-23	4.9	265	-8.60	-7.20	
09S26W18CBB1	425	4-25	17.76	407	-0.50	-0.95	
12S24W06CDC1	355	4-24	157.43	198	+5.07	+38.67	Hope public supply 5.
12S24W06DAD1	355	4-24	165.11	190	-8.98	+29.63	Hope public supply 2.
HOWARD COUNTY							
09S28W20DAC1	480	4-25	10.45	470	+0.83	-0.95	
11S28W02CDA1	309	4-27	23.22	286	+0.38	+2.12	
NEVADA COUNTY							
11S22W08DAC1	305	4-23	79.41	226	+1.30	+75.83	Prescott public supply 1.

Table 9.--Measurements of water levels in 1990 in wells completed in the aquifer in the Trinity Group

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
			PIKE COUNTY				
08S25W17ABC1	360	4-26	3.53	356	-0.26	+0.07	Murfreesboro public supply.
			SEVIER COUNTY				
08S31W26BAA1	475	4-27	3.87	471	+1.05	-1.75	
09S30W23BDC4	432	4-26	82.80	349	-5.56	-5.75	Lockesburg public supply 4.
09S30W23BDD1	440	4-26	49.24	391	+22.71	+21.53	

Table 10.--Measurements of water levels in 1990 in wells completed in the aquifer in the Atoka Formation

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
CLEBURNE COUNTY							
09N09W34DCC1	620	3-26	85.69	534	+18.58	+25.24	

Table 11.--Measurements of water levels in 1990 in wells completed in the aquifer in the Jackfork Sandstone

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
PIKE COUNTY							
07S25W18BBB1	563	4-26	6.12	557	+5.47	+4.15	U.S. Army Corps of Engineers.

Table 12.--Measurements of water levels in 1990 in wells completed in the aquifer in the Everton Formation

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
NEWTON COUNTY							
16N21W34ABC1	880	3-27	63.08	817	---	-2.20	Jasper public supply.
SHARP COUNTY							
15N05W06DDD1	645	3-26	96.72	548	-7.01	-9.60	

Table 13.--Measurements of water levels in 1990 in wells completed in the aquifer in the Cotter Dolomite

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
			IZARD COUNTY				
18N09W15ACA1	820	3-26	101.59	718	-0.25	+22.63	Oxford public supply.

Table 14.--Measurements of water levels in 1990 in wells completed in the aquifer in the Roubidoux Formation

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Depth to water below land surface Feet	Altitude of water level (feet)	Net change in water level (feet) 1989-90	Net change in water level (feet) 1985-90	Remarks
BENTON COUNTY							
19N28W11BAD1	1,260	3-29	177.83	1,082	+2.83	+11.56	U.S. Army Corps of Engineers.
19N29W18BBB1	1,345	3-28	105.87	1,239	+31.74	+102.28	
21N33W23ACA1	1,035	3-29	136.88	899	+4.84	-2.87	Sulphur Springs public supply.
CARROLL COUNTY							
19N23W04BAC1	1,350	3-28	250.17	1,100	+7.62	-23.82	
21N26W17BCC1	1,010	3-28	85.68	924	+11.71	+48.42	Holiday Island public supply 1.
FULTON COUNTY							
20N09W18ACB1	860	3-26	102.89	757	-0.83	-8.59	Viola public supply.
IZARD COUNTY							
17N11W13BCB1	541	3-26	45.67	495	+9.42	+18.18	1986-90.
MARION COUNTY							
19N15W20DBB1	630	3-27	94.35	536	+3.17	-9.08	Flippin public supply.
19N16W33CCB1	840	3-27	282.23	558	-9.46	-23.35	Yellville public supply.

Table 14.--Measurements of water levels in 1990 in wells completed in the aquifer in the Roubidoux Formation--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
			RANDOLPH COUNTY				
20N02E06AAC1	485	3-26	203.69	281	-3.62	-48.25	Maynard public supply.
			SHARP COUNTY				
19N04W15BAA1	590	3-26	17.97	572	-2.43	+0.12	Ozark Acres public supply 3.

Table 15.--Measurements of water levels in 1990 in wells completed in the aquifer in the Gunter Sandstone

Well number	Altitude of land surface (feet)	Depth to water below land surface: Date	Depth to water below land surface: Feet	Altitude of water level (feet)	Net change in water level (feet): 1989-90	Net change in water level (feet): 1985-90	Remarks
BAXTER COUNTY							
19N13W16BAB1	740	3-27	76.11	664	-5.33	+3.53	Mountain Home public supply.
BENTON COUNTY							
18N30W12CCC1	1,310	5-23	320.45	990	-3.82	-34.24	Columbia Union Orchards 1.
19N29W07DAB1	1,220	3-28	146.22	1,074	-1.70	-12.51	Rogers public supply.
20N33W14DBC1	1,230	5-23	403.54	826	+16.59	+17.98	
BOONE COUNTY							
18N19W19BCD1	1,150	3-28	215.42	935	+3.61	+15.37	Bellefonte public supply.
18N19W33BBB1	1,300	5-18	489.60	810	-16.31	+38.65	Valley Springs Rural Water District.
CARROLL COUNTY							
20N26W16DCA1	1,199	3-28	125.82	1,074	-1.57	-1.24	Eureka Springs public supply.
21N26W15BAA1	1,102	3-28	145.59	956	+5.48	-11.62	Holiday Island No. 2.

Table 15.--Measurements of water levels in 1990 in wells completed in the aquifer in the Gunter Sandstone--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
FULTON COUNTY							
19N06W23ADA1	682	3-26	211.41	471	-0.38	-7.15	Cherokee Village.
20N08W27ABD1	660	3-27	115.77	544	-109.36	-114.03	Salem public supply.
MARION COUNTY							
19N16W32ADA1	950	3-27	442.07	508	-5.39	-12.69	Summit public supply.
SHARP COUNTY							
18N06W10DCC1	655	3-26	148.88	506	-15.01	-22.11	Ash Flat public supply.
STONE COUNTY							
15N12W02BCA1	985	5-18	453.67	531	-4.67	-14.67	Fifty-Six public supply.
WASHINGTON COUNTY							
15N31W17BBC1	1,200	3-29	55.02	1,145	+7.39	+102.78	
15N31W30CAB1	1,175	3-29	17.42	1,158	+11.14	+0.32	
16N32W09ABD1	1,135	3-29	129.04	1,006	-2.52	-1.92	

Table 16.--Measurements of water levels in 1990 in wells completed in the aquifer in the Potosi-Eminence Dolomite

Well number	Altitude of land surface (feet)	Depth to water below land surface		Altitude of water level (feet)	Net change in water level (feet)		Remarks
		Date	Feet		1989-90	1985-90	
BENTON COUNTY							
20N29W13BCA1	1,430	5-23	403.34	1,027	-7.92	-26.34	Benton County Water District public supply.
BOONE COUNTY							
21N18W20CCD1	882	3-27	221.57	660	+0.33	-15.59	1986-90.
CARROLL COUNTY							
20N26W23ACA1	1,296	3-28	276.20	1,020	-1.32	+2.03	Eureka Springs public supply.