

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GROUND-WATER LEVELS IN ARKANSAS, SPRING 1982



Open-File Report 82-852

Prepared in cooperation with the
ARKANSAS GEOLOGICAL COMMISSION

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By Joe Edds

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Little Rock, Arkansas

September 1982

UNITED STATES DEPARTMENT OF THE INTERIOR

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GEOLOGICAL SURVEY

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METRIC CONVERSION TABLE

The following factors can be used to convert the inch-pound unit in this report to the equivalent International System of units (SI).

<u>Multiply inch-pound unit</u>	<u>By</u>	<u>To obtain SI unit</u>
foot	0.3048	meter
mile	1.609	kilometer

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ABSTRACT

The report contains about 640 ground-water level measurements made in observation wells in Arkansas in the spring of 1982. In addition, the report contains potentiometric-surface maps and well hydrographs relating to the alluvial aquifer and the Sparta Sand, the most important aquifers with respect to ground-water availability and use in Arkansas.

INTRODUCTION

This report contains records of water-level measurements from wells in Arkansas that comprise 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-level changes in each of the principal water-bearing formations (aquifers) that are tapped by wells in the State.

Water-level measurements listed in the report were made during March, April, and May 1982. The data are listed by aquifer, then by county. For additional information on the hydrologic properties of the aquifer, the reader is referred to the selected references section of the report.

Also included in the report are potentiometric-surface maps and water-level hydrographs for the alluvial aquifer and the Sparta Sand aquifer--two important aquifers in Arkansas for water availability and use. The "Sparta Sand" aquifer, as termed in this report, also includes a water-bearing unit

in northeastern Arkansas that is variously termed locally as the "Memphis aquifer" or the "500-foot" sand.

The potentiometric-surface maps (figs. 1 and 2), prepared from data in tables 1 and 4, indicate the direction of downgradient movement of water in the alluvial aquifer and the Sparta Sand aquifer. For example, the potentiometric surface for the Sparta Sand (fig. 2) indicates that water moves from surrounding areas toward centers of potentiometric-surface lows in Columbia, Union, and Jefferson Counties. The water-level hydrographs (figs. 3 and 4) show long-term trends in water levels in selected wells completed in the alluvial aquifer and the Sparta Sand aquifer.

DATA

Table headings used in the report are defined as follows:

Well number: Township, range, and section number designation of well (fig. 5).

Altitude of land surface: Altitude of the land surface at the well, in feet above the National Geodetic Vertical Datum of 1929 (sea level).

Depth to water: 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 in feet above, or feet below (-) sea level.

Net change in water level: Difference between the 1982 depth-to-water measurements and the 1978 measurements and the 1980 measurements. Symbol preceding number indicates a decline (-) or a rise (+) in water levels in the well during the period unless specified differently under "Remarks."

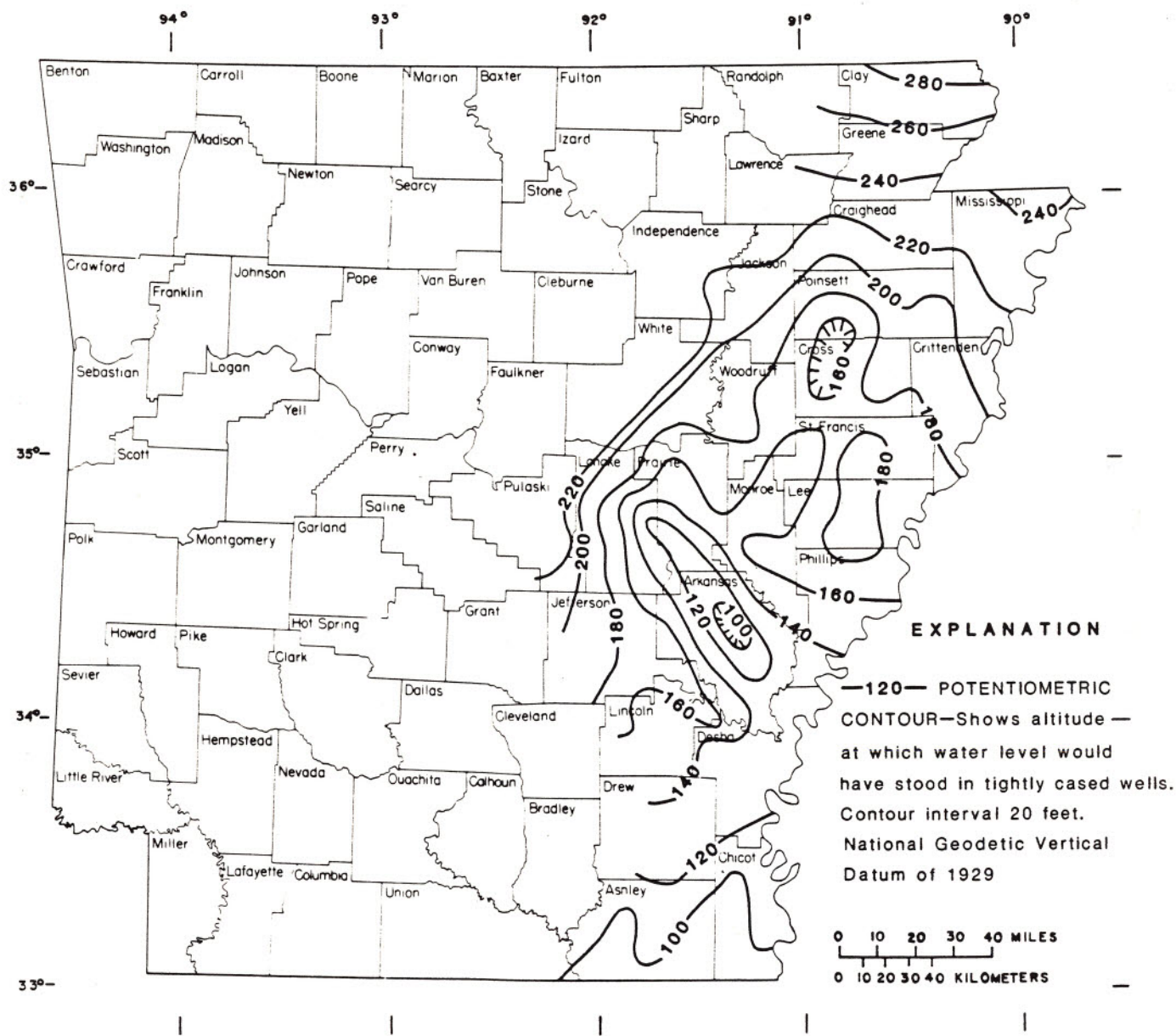


Figure 1.—Potentiometric surface of the alluvial aquifer in Arkansas, spring 1982.

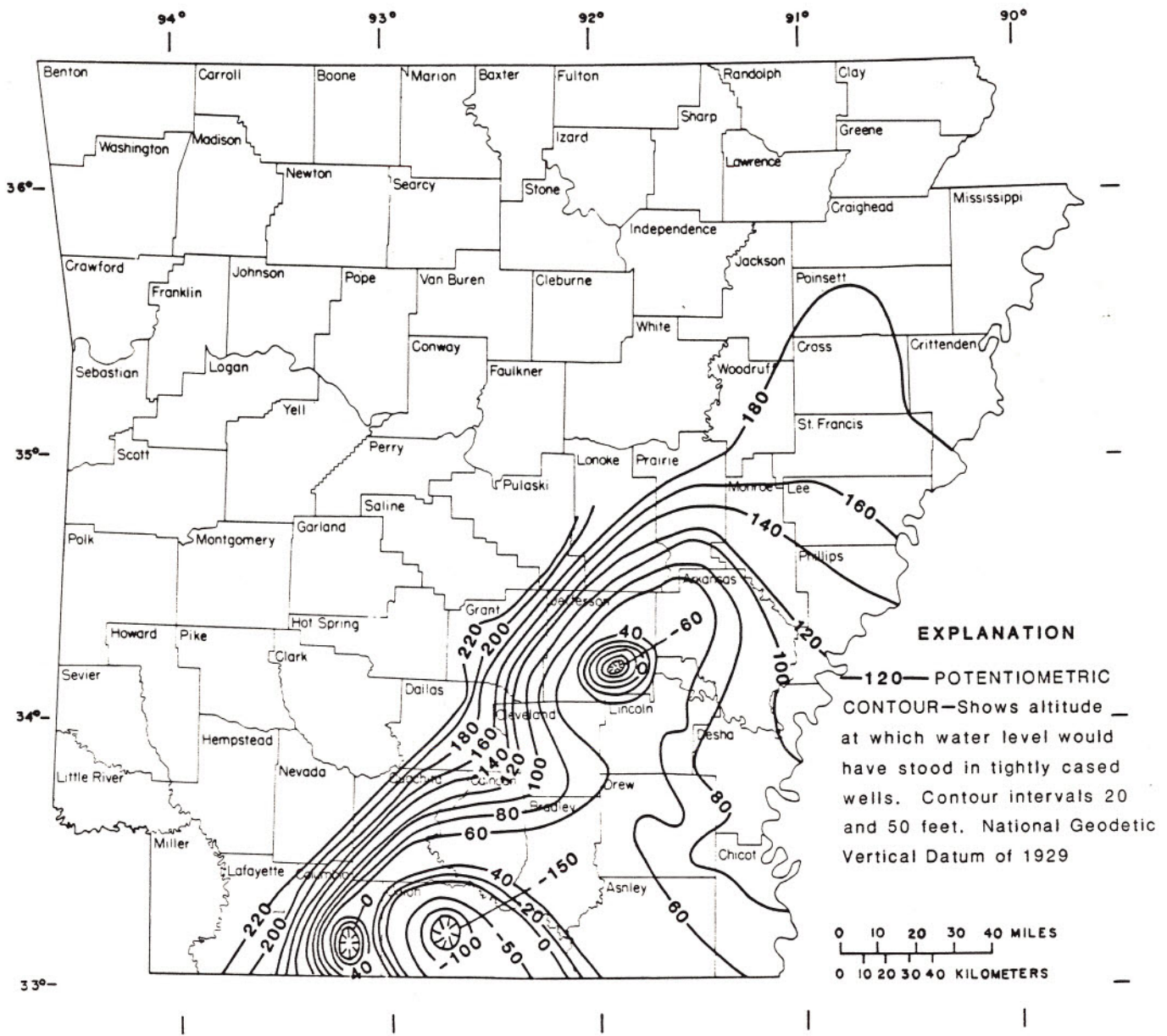


Figure 2.--Potentiometric surface of the Sparta Sand aquifer in Arkansas, spring 1982.

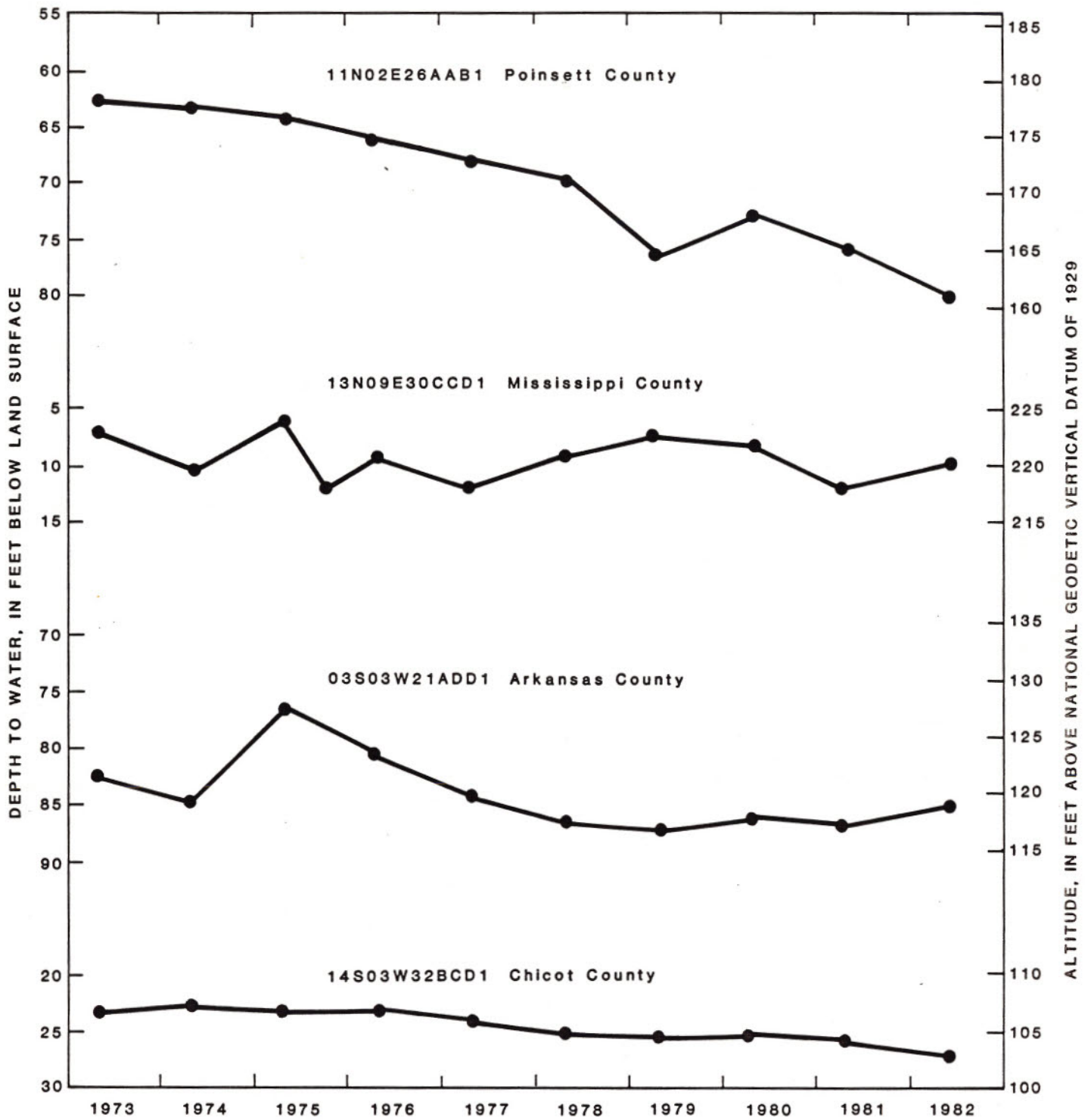


Figure 3.—Water-level hydrographs for selected wells completed in the alluvial aquifer.

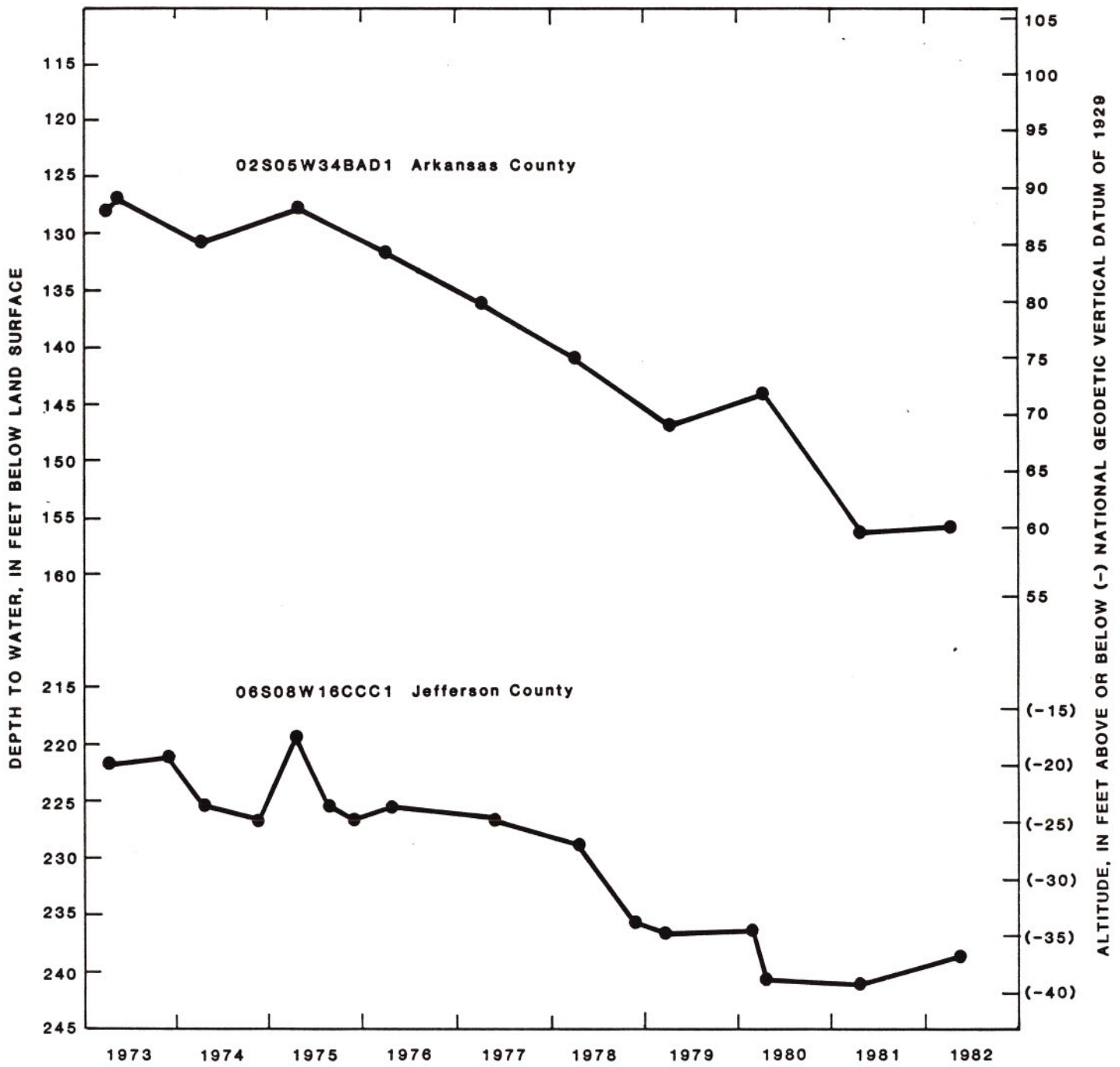


Figure 4, sheet 1 of 2.—Water-level hydrographs for selected wells completed in the Sparta Sand aquifer.

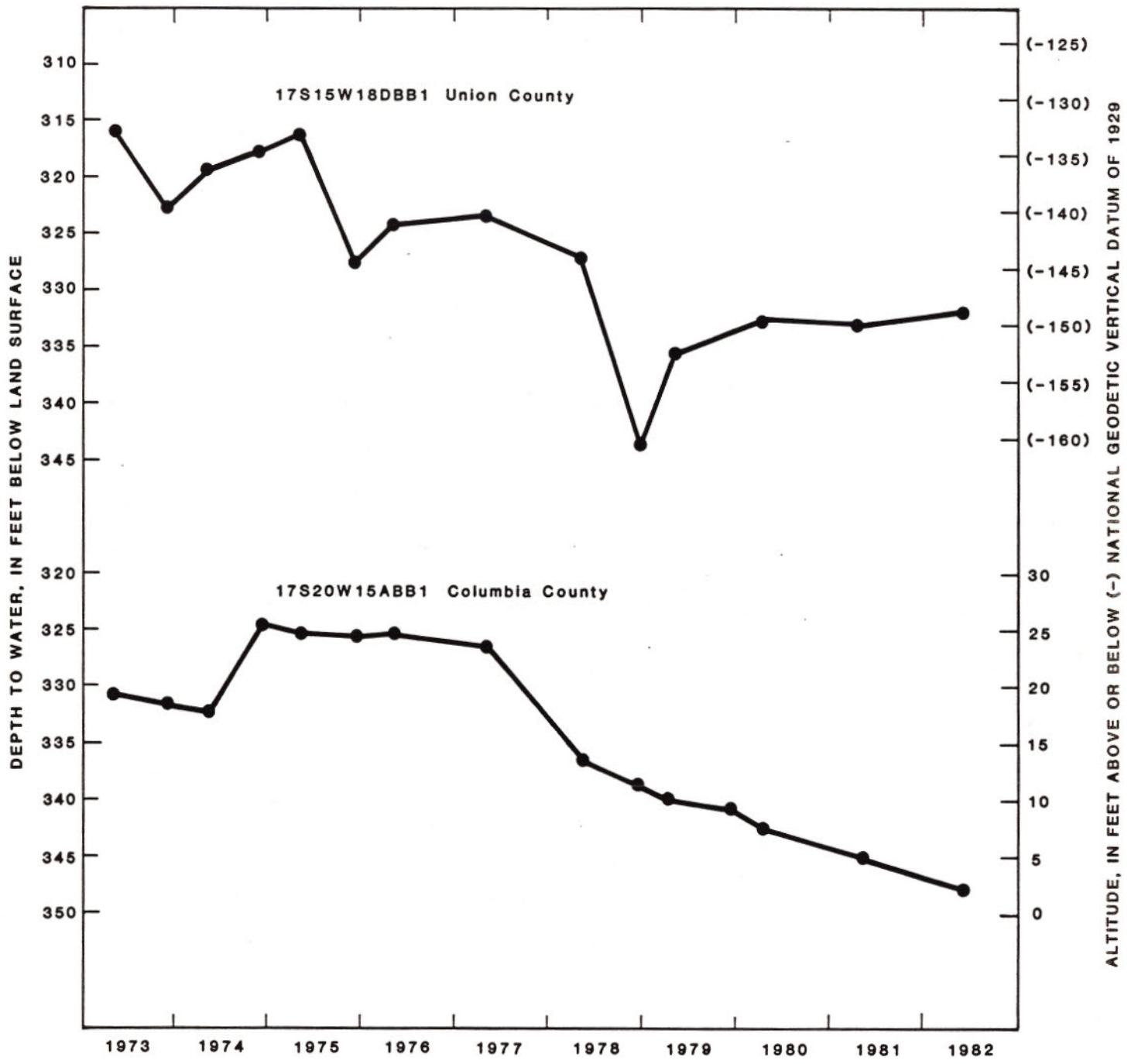


Figure 4, sheet 2 of 2.—Water-level hydrographs for selected wells completed in the Sparta Sand aquifer.

Remarks: (Year)--1982, time interval for net-change value where water-level data are available for less than 5 years.

Data for depths of wells are not given in this report. However, a qualitative distinction generally is made locally for describing well depths. Thus, wells tapping the alluvial aquifer are considered to be "shallow wells," whereas wells tapping other aquifers are considered to be "deep wells."

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 03S04W03DCA16 (fig. 5) is located in Township 3 South, Range 4 West, and in the northeast quarter of the southwest quarter of the southeast quarter of section 3. This well is the 16th well in this quarter-quarter-quarter section of section 3 from which data were collected.

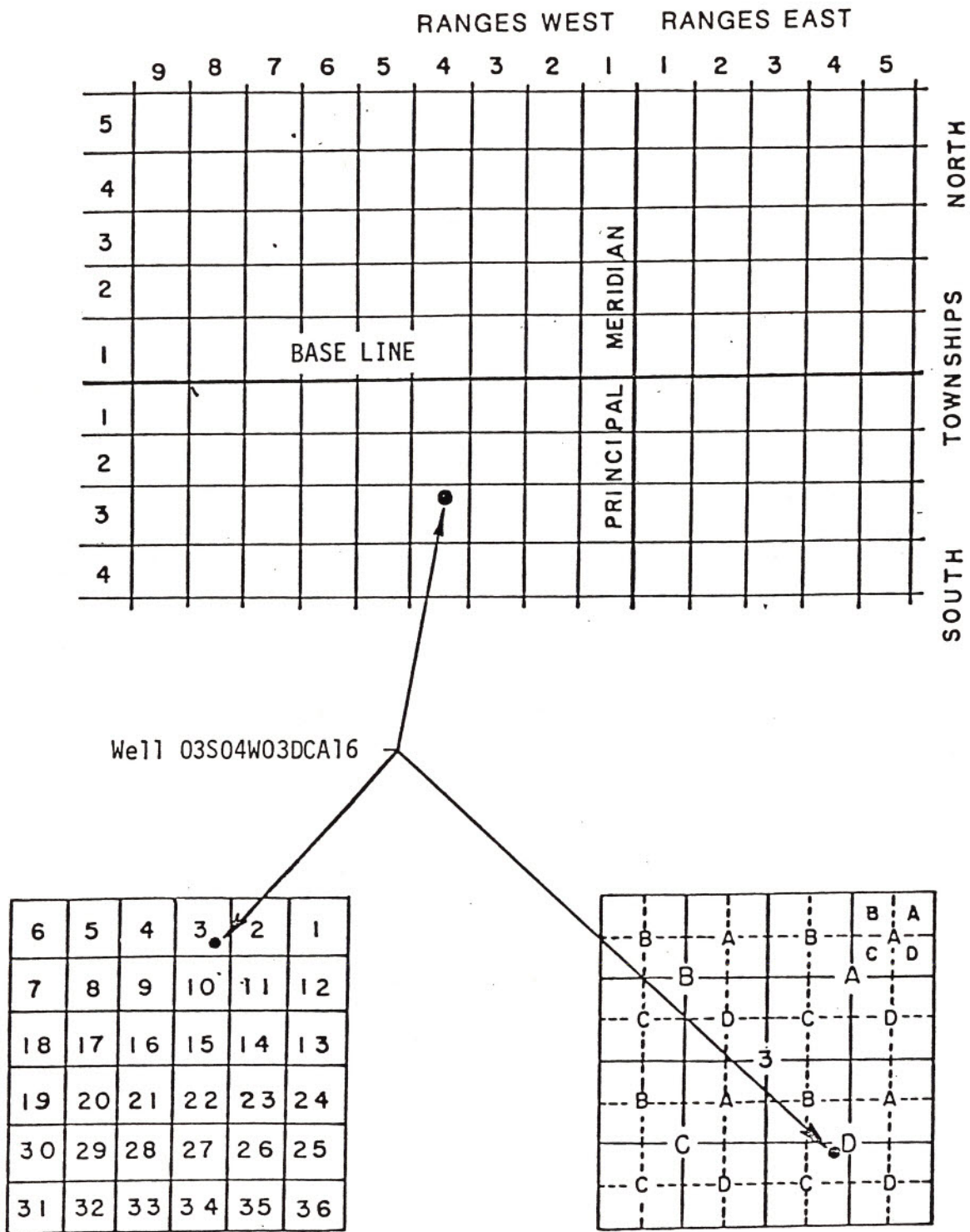


Figure 5.--Well-numbering system.

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Table 1.--Measurements of water levels made in 1982 in wells completed in the alluvial aquifer

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
ARKANSAS COUNTY						
02S03W09DCD1	211	3-18	73.36	-0.73	-1.68	
02S04W11DBB1	213	3-18	95.35	- .45	-1.78	
02S05W04BBB1	221	3-18	116.90	- .22	-1.52	
02S05W33DCD1	214	3-26	101.10	-----	-----	New Well.
03S02W18DCCL	203	3-17	73.44	- .70	-3.33	
03S02W27ABB1	197	3-17	60.16	+ .61	- .24	
03S03W01DBB1	205	3-17	72.40	- .47	-4.10	
03S03W21ADD1	204	3-17	85.35	+1.85	+ .57	
03S04W03DCA16	205	3-17	97.20	-.55	-1.01	
03S06W29BAB1	196	3-18	43.31	-7.29	-8.33	
03S06W35ADD1	190	3-18	46.63	+ .03	-3.05	
04S01W04ACCL	199	3-17	48.52	+8.92	- .03	White River Refuge.
04S01W30AAA1	188	3-17	54.83	-1.18	-3.23	
04S02W11AAA1	195	3-17	62.48	- .83	-1.98	
04S02W29CCCL	191	3-17	78.00	+ .13	-1.70	
04S03W17ADD1	200	3-17	97.77	+ .38	-1.78	
04S03W32BCB1	192	3-17	96.32	+1.58	-1.33	
04S04W02ABB1	200	3-17	104.26	+ .06	-2.23	
04S05W16CDC1	201	3-18	72.63	+ .79	- .73	
04S05W24DAA1	198	3-16	92.93	+ .13	- .04	
04S06W15DBB1	190	3-18	27.82	- .40	-2.74	1979-82.
05S01W16BAB1	183	3-17	48.14	+3.32	+3.38	
05S01W18BCC1	187	3-17	58.68	- .76	-1.66	
05S02W16ABD1	190	3-16	75.35	-1.58	-3.14	
05S03W30DDA1	193	3-16	91.98	+10.68	- .38	
05S04W07CCCL	193	3-16	78.49	+1.44	+ .07	
05S04W32BBA1	191	3-16	69.91	- .54	-2.67	
05S05W15ADD1	193	3-16	51.52	+ .43	+ .35	
05S06W02DDD1	183	3-18	18.03	+ .91	+ .36	
05S06W07DDC1	180	3-23	11.67	- .87	-2.57	
06S02W06BBA1	189	3-16	78.33	- .55	-1.28	
06S02W23DCD1	188	3-16	60.09	+3.40	- .69	
06S03W10BBAa	184	3-16	79.30	+ .18	-1.20	

Table 1.--Measurements of water levels made in 1982 in wells completed in the alluvial aquifer--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Feet	Net change in water level (feet)		Remarks
				1981-82	1978-82	
ARKANSAS COUNTY--Continued						
06S03W27AAA1	183	3-16	65.94	-1.04	-3.55	
06S04W18CBB1	190	3-16	37.12	+ .38	+ .11	
07S02W04BBB1	176	3-16	49.67	- .55	-1.57	
07S02W17BBA1	183	3-15	48.89	+3.12	+1.44	
07S03W18CCD1	186	3-15	42.24	-1.24	-1.02	
07S04W01DDD1	186	3-15	44.97	+ .50	+ .87	
08S02W08ACA1	179	3-15	39.42	+6.55	+ .70	
08S03W05ABB1	178	3-15	22.80	-1.13	-2.08	
ASHLEY COUNTY						
15S04W23DBD1	128	3-30	25.32	-----	-----	New well.
16S06W27BAB1	182	3-30	76.94	-0.44	-1.52	
17S04W03ABB1	124	3-30	22.95	-2.88	-6.07	
17S04W21ABA1	117	3-30	18.75	- .75	-5.13	
17S06W01ADD1	182	3-31	80.17	- .12	-1.74	
17S06W35CAC1	179	3-30	72.03	-1.06	-5.14	
17S07W05CDD1	185	3-31	84.93	- .41	+ .09	
18S08W01DBA1	183	3-31	86.40	-1.90	-2.32	
18S08W28DDD2	163	3-31	87.89	+ .22	+ .63	U.S. Geological Survey recorder.
19S04W06BAB2	110	3-30	21.69	-8.52	-6.13	
19S06W07BCC1	135	3-31	31.43	-.45	-.74	
CHICOT COUNTY						
13S03W34CBD1	131	3-23	19.30	-4.60	-2.37	
14S03W12AAC1	136	3-23	-----	-----	-----	No Measurement.
14S03W32BCD1	130	3-23	27.02	- .65	-1.77	
15S02W29ACC1	127	3-23	23.00	-----	-----	New well.
15S03W24AAA1	115	3-23	21.10	-2.51	+ .03	
16S03W16DCD1	121	3-24	25.11	-----	-----	New well.
17S01E18DAA	122	3-24	14.41	-----	-----	New well.
17S02W10AAA1	114	3-24	19.95	-1.62	-2.48	
17S03W23BBB1	114	3-24	21.86	-----	-----	New well.
18S01W19DAB1	110	3-24	12.61	-.82	-1.39	

Table 1.--Measurements of water levels made in 1982 in wells completed in the
alluvial aquifer--Continued

Well number	Altitude of land surface (feet)	Depth to wa- ter below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
CHICOT COUNTY--Continued						
18S01W28CCC1	111	3-24	16.90	-----	-----	New well.
19S01W15BBC1	114	3-24	21.39	-3.52	-1.54	
19S01W17BCC1	106	3-30	19.34	-----	-----	New well.
19S01W21AAA1	110	3-24	21.95	-1.87	-5.52	
19S03W18BBA1	102	3-30	18.19	- .85	-1.90	
CLAY COUNTY						
18N08E03DAB1	262	3-23	6.79	+2.26	-0.24	
19N04E19AAA1	282	3-25	22.65	- .30	-3.83	
19N08E01BBA1	270	3-24	6.16	+2.74	-1.05	
20N05E34DBA1	285	3-24	16.48	- .93	-7.48	
21N05E17ABB1	300	3-24	18.82	+ .08	-6.99	
21N06E31BBA1	289	3-24	6.85	+2.53	-5.05	
21N08E36ABB1	283	3-24	.55	+5.17	+1.58	
CRAIGHEAD COUNTY						
13N02E35DAA1	250	3-22	76.37	-1.32	-6.47	U.S. Geological Survey recorder.
13N03E09BAA1	267	3-22	78.05	-1.40	-6.41	
13N05E21BDD1	226	3-23	9.75	+2.68	+ .86	Bay public supply.
13N07E20BBA1	223	3-23	3.98	+ .62	-1.08	U.S. Army Corps of Engineers recorder.
14N02E18BDD1	242	3-22	31.06	-1.94	-7.66	
14N04E22CBD1	256	3-23	43.09	-2.71	-6.53	Jonesboro public supply.
14N04E28DBD1	254	3-23	40.92	+1.18	-3.83	Do.
14N05E24DCC1	238	3-23	14.90	0	-2.52	
14N06E20CCD1	226	3-23	4.93	+ .22	-2.05	
14N07E26DAB1	227	3-23	6.20	+1.37	-3.30	
15N03E19ADA1	262	3-23	28.53	+ .43	-4.23	
15N06E20DDD1	234	3-23	6.45	+1.55	-----	

Table 1.--Measurements of water levels made in 1982 in wells completed in the alluvial aquifer--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
CRITTENDEN COUNTY						
05N07E28CBA1	201	3-17	17.33	-0.57	+0.69	
05N07E34BAB1	203	3-17	13.98	-----	-----	New well.
05N08E11CCA1	212	3-17	14.79	-----	-----	New well.
06N07E13BAA1	205	3-16	13.64	-1.12	-1.19	
07N07E31CCC1	207	3-16	19.78	- .78	-1.18	
07N09E05CDD1	214	3-17	9.16	-----	-----	New well.
08N07E14DAA1	215	3-16	18.47	-0.67	+0.23	
09N06E11DAD1	217	3-16	26.93	- .36	+ .62	
09N08E26DBB1	222	3-16	12.30	-----	-----	New, well.
CROSS COUNTY						
06N04E01BBB1	205	4- 7	31.89	-1.09	-1.59	
07N01E05CDA1	217	4- 8	46.63	+4.25	+ .93	
07N03E05ADA1	254	4- 8	90.82	- .47	-4.43	
07N04E07ABC1	222	4- 8	45.48	-1.90	-1.62	
07N05E01BCB1	212	4- 7	30.46	+ .39	+1.71	
08N03E09DAD1	258	4- 8	94.17	-2.44	-6.58	
09N01E33BBA1	225	4- 8	57.46	-2.36	-3.43	
09N01E36BAB1	226	4- 8	65.73	-2.58	-6.96	
09N03E17DDC1	248	4-22	84.92	-----	-7.32	
09N05E32BDB1	210	4- 7	22.03	+1.57	+1.41	
DESHA COUNTY						
07S01E25CAA1	155	3-19	21.42	-----	-----	New well.
07S01E26ABC1	156	3-19	19.27	-----	-----	New well.
08S03W33ABD1	165	3-22	6.33	-----	-----	New well, U.S. Army Corps of Engineers.
09S02W26DDC1	149	3-23	16.22	-2.57	-3.94	U.S. Geological Survey recorder.
09S03W17DCB1	155	3-22	13.68	-----	- .81	
09S04W06BBC1	162	3-22	21.15	-----	-10.45	
10S03W26DAC1	155	3-23	32.89	-1.87	-4.35	
10S04W36CCD1	156	3-22	25.20	-----	-----	New well.
11S03W31BBA1	148	3-22	23.09	-2.84	-4.35	
12S01W31AAB1	135	3-23	16.20	+2.89	+ .89	

Table 1.--Measurements of water levels made in 1982 in wells completed in the alluvial aquifer--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Feet	Net change in water level (feet)		Remarks
				1981-82	1978-82	
DESHA COUNTY--Continued						
12S01W33BAA1	135	3-23	22.82	-9.59	-2.53	
12S03W16BBC1	148	3-22	18.02	- .19	-1.30	
DREW COUNTY						
11S04W08DBA1	160	3-24	21.37	-----	-----	New well.
11S05W08CCC1	185	3-24	33.30	-2.55	-0.88	
11S06W34DAC1	209	3-24	63.93	-----	-----	New well.
12S04W03ABB1	155	3-24	18.65	-----	-----	New well.
12S04W27CCC1	148	3-25	18.60	-----	- .82	
12S06W15ADC2	199	3-24	64.42	-9.39	-12.00	
13S04W33ABA1	140	3-25	17.21	-0.51	-1.54	
13S06W03DDC1	191	3-26	55.60	-----	-----	New well.
14S05W20BAA1	173	3-24	39.33	-1.93	- .54	
GREENE COUNTY						
16N06E02CAB1	256	3-23	22.25	+0.95	-7.97	
16N06E03CCC1	258	3-23	37.30	+ .45	-10.30	
16N06E28ABB1	251	3-23	19.50	- .47	-4.27	
17N03E02CDD1	266	3-23	15.24	-1.15	-8.22	
17N04E30CDC1	265	3-23	20.45	-1.90	-6.95	
18N06E35BAA1	267	3-25	16.22	-----	-----	New well.
18N07E20BBA1	257	3-24	7.09	+2.04	-2.13	
INDEPENDENCE COUNTY						
12N04W34CBB1	231	3-25	16.68	+12.51	-2.92	
14N03W14DBB1	230	3-26	2.95	+3.95	-1.85	

Table 1.--Measurements of water levels made in 1982 in wells completed in the alluvial aquifer--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
JACKSON COUNTY						
09N01W22ADD1	215	3-26	45.78	-3.13	-7.38	
09N02W32CBB1	220	3-26	25.44	-2.47	-4.00	
10N02W27BBB1	224	3-26	18.67	- .95	-3.10	
10N03W30ABB1	222	3-25	17.59	+11.76	-1.88	
11N03W30CBA1	223	3-25	18.45	+3.86	-4.82	
12N02W25ABB2	232	3-26	19.08	- .88	-1.13	
12N03W35BCA	220	3-26	10.79	+8.24	+3.85	
13N01W20AAA1	242	3-26	20.10	-1.88	-4.83	
14N01W09AAA1	251	3-27	23.13	-1.26	-----	
JEFFERSON COUNTY						
03S07W16AAA1	190	3-22	32.80	+2.01	-4.04	
03S08W19CBA1	214	3-22	30.60	+3.48	-3.92	
03S08W24BBC1	202	3-22	35.10	-1.13	-5.08	
03S09W06DDA1	225	3-22	32.67	- .67	-2.29	
03S09W31DDA1	218	3-22	23.71	+ .03	- .55	
04S07W17CCB1	200	3-22	37.41	-1.23	-4.21	
04S09W16BCC1	215	3-22	22.84	- .06	-1.25	
05S06W31CAA1	189	3-23	15.66	-1.87	-2.96	
05S07W19BCC1	199	3-23	22.34	-1.15	-3.96	
06S05W15BCA1	177	3-23	15.83	-1.23	-2.42	
06S06W23AAD1	189	3-23	19.91	-1.33	-3.09	
06S08W24DCC1	200	3-23	19.53	- .75	-1.81	
07S08W06BAA1	202	3-24	14.77	- .45	-1.07	
LAFAYETTE COUNTY						
16S25W25CAC1	224	4- 6	15.89	+1.59	-2.05	
19S25W06ABD1	216	4- 7	14.39	+ .48	+ .46	

Table 1.--Measurements of water levels made in 1982 in wells completed in the alluvial aquifer--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Net change in water level (feet) 1981-82	1978-82	Remarks	
						Feet
LAWRENCE COUNTY						
16N01E03DDB1	264	3-25	27.55	+0.55	-5.80	
LEE COUNTY						
01N03E02BBC1	236	3-18	46.24	-0.96	-9.33	
01N03E35BBA1	202	3-18	10.85	-1.09	-6.99	
02N01E23BAA2	202	3-18	36.42	-2.44	-5.15	
02N02E21ABC1	200	3-18	28.09	-----	-----	
02N03E14CCC3	232	3-18	55.93	+1.59	-6.74	Marianna public supply 3.
02N04E16ADC1	195	3-17	18.89	+2.04	-.01	
03N02E29DAD1	205	3-18	30.47	-1.99	-4.38	
03N04E34CDD1	195	3-17	20.70	+2.27	-3.93	
LINCOLN COUNTY						
07S06W28CBB1	180	3-23	29.75	-1.01	-4.63	
07S07W29DDD1	187	3-24	20.07	+1.25	-2.89	
08S06W02ACB1	181	3-23	31.56	+1.33	-4.47	
08S06W21BBC1	180	3-24	29.89	- .42	-3.30	
08S07W09BBD1	190	3-23	22.75	- .51	-2.27	
09S05W08CCB1	171	3-25	23.02	-----	-----	New well.
09S05W13CDB1	174	4-21	24.59	-----	-----	New well.
10S05W06DCC1	175	3-24	23.75	-2.30	-2.31	
LITTLE RIVER COUNTY						
13S29W05ABD1	330	3-26	25.59	+10.47	+19.40	
13S32W09CCC1	313	3-26	3.88	+ 1.59	+ .04	1980-82.

Table 1.--Measurements of water levels made in 1982 in wells completed in the alluvial aquifer--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
LONOKE COUNTY						
01N07W29BBB1	225	3-23	96.00	+3.00	-7.87	
01N08W09CCB1	235	3-23	94.96	-2.36	-6.00	
01N09W27CCA1	229	3-23	53.75	-2.57	-5.93	
02N07W22DDD1	223	3-19	101.05	-2.53	-4.26	
02N08W04BBB1	243	3-23	92.80	+1.15	-2.85	
02N08W30CAB1	245	5-10	106.82	- .86	-4.38	
02N09W02BCB1	255	5-10	96.62	-1.96	-6.76	
02N09W17CCB1	253	5-10	72.76	- .67	-5.26	
02N09W32ABB1	236	3-22	53.30	-3.18	-5.71	
02N10W23BCA1	242	3-19	34.45	-1.39	-5.70	
03N07W15CAD1	227	3-22	64.79	-1.25	- .33	
03N07W31CDD2	243	3-23	99.83	+ .97	-4.33	
03N07W35CDC1	233	3-23	107.00	-3.48	-7.88	
03N08W21CDC1	249	3-23	94.67	-6.72	-11.13	
03N09W31CBC2	257	3-24	66.35	-8.17	- .68	
03N10W34ABB1	257	5-12	59.84	+3.94	+8.88	
04N08W15BCB2	225	3-23	24.60	-1.54	-6.55	
01S07W14ADA1	209	3-23	73.10	+5.28	-5.38	
01S08W22CBB1	212	3-23	51.64	-2.27	-6.62	
01S10W01ACB1	236	3-22	33.70	+ .75	-3.38	
02S07W10CCB1	201	3-22	44.10	-1.10	-6.40	
02S08W13BBB1	200	3-22	36.53	-2.06	-5.77	
02S09W12CCC1	221	3-22	42.15	-2.14	-6.03	
MILLER COUNTY						
15S26W34AAA1	230	4- 6	9.11	-0.11	-0.63	

Table 1.--Measurements of water levels made in 1982 in wells completed in the alluvial aquifer--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
MISSISSIPPI COUNTY						
11N09E34BBB1	235	4-15	13.59	+0.59	-2.11	
12N08E08BCB1	225	4-15	7.10	+1.68	-1.58	
12N09E34CDC1	230	----	----	-----	-----	No measurement.
12N10E11ADA1	239	4-14	8.02	+9.90	+ .97	
13N09E30CCD1	230	4-15	9.50	+3.00	- .30	
14N08E12DAB1	235	4-14	4.50	+2.67	- .18	
14N10E18ABC1	236	4-15	11.87	+1.33	-2.07	
14N11E03BCB1	247	3-19	7.16	-1.32	-3.16	
14N12E05DCB1	250	3-19	12.40	+2.07	-3.05	
15N08E08DBC2	236	4-14	8.45	+1.40	- .38	
16N09E21BBB1	244	4-14	5.97	+1.63	+ .88	
16N11E23AAD1	255	3-19	13.09	+1.11	-1.39	
MONROE COUNTY						
01N01W21CDC1	181	3-19	22.20	-1.57	-4.64	
01N03W24BBB1	185	3-19	24.43	-1.78	-2.57	
01N04W33BBB2	218	3-19	88.66	- .41	-1.09	
02N02W20BBC1	188	3-15	33.97	-2.87	-5.09	
03N01W20ABA1	189	3-15	34.46	-1.26	-3.32	
03N02W32BBC1	191	3-15	31.17	-1.81	-3.48	
03N03W36AAA1	176	3-15	16.42	-----	-----	New well.
04N02W30BBB1	185	3-19	15.54	- .40	-3.35	
04N03W36BAC1	180	3-19	13.95	-1.72	-4.56	
01S01W13CDD1	178	3-19	11.60	-2.08	-3.78	
01S02W11BCC1	180	3-22	14.63	-1.96	-3.17	
01S04W01BAB1	210	3-19	73.25	- .93	-2.95	
02S02W01BCA1	171	3-22	12.76	- .88	-1.72	
03S01W03DAB1	166	3-22	15.10	-1.49	-3.81	
03S01W36BBD1	163	3-22	15.75	+6.23	-1.73	

Table 1.--Measurements of water levels made in 1982 in wells completed in the alluvial aquifer--Continued

Well number	Altitude of land surface	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
PHILLIPS COUNTY						
02S01E28CCB1	174	3-19	13.71	-1.18	-2.34	U.S. Geological Survey recorder.
02S03E15ACD1	174	3-18	13.22	- .80	-2.33	
03S04E20CAB1	174	3-18	15.41	-1.51	-1.77	
04S02E06BAA1	157	3-19	13.35	- .55	-2.51	
05S02E18BDL1	156	3-19	17.28	-3.19	-1.81	
06S01E28AAA1	151	3-19	17.18	-2.35	-4.74	
POINSETT COUNTY						
10N03E14DAA1	270	4- 7	113.82	-5.12	-10.57	
10N05E10BCD1	207	4- 7	9.22	+1.56	-1.80	
10N05E15BDD1	207	4- 7	16.86	-1.62	-5.94	
10N06E11AAA1	212	4- 7	12.05	+ .79	-1.12	
10N07E22AAC1	215	4- 7	20.41	- .76	-1.46	
11N01E21CBC1	230	4- 6	55.99	-2.09	-8.09	
11N02E05BDL1	245	4- 6	76.40	-1.30	-6.22	
11N02E26AAB1	241	4- 6	79.92	-3.77	-9.92	
11N03E22DDD1	245	4- 6	78.24	-1.18	-6.95	
11N07E22ADD1	218	4- 7	21.31	-3.21	-5.02	
12N01E18AAB1	241	4- 6	37.24	-3.94	-7.35	
12N04E18CCC1	245	4- 7	68.72	-1.62	-2.90	
12N05E34ABA1	215	4- 7	6.95	+1.27	-2.65	
PRAIRIE COUNTY						
01N05W16AAA1	218	3-22	106.94	-2.30	-9.28	
01N05W20DCC1	212	3-22	98.30	+ .20	-3.06	
01N06W18CDD1	223	3-19	100.82	- .97	-5.50	
01N06W26DDC1	216	3-22	100.27	-----	-4.15	
02N04W02BCB1	188	3-15	23.39	-1.98	-2.39	Biscoe public supply.

Table 1.--Measurements of water levels made in 1982 in wells completed in the alluvial aquifer--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
PRAIRIE COUNTY--Continued						
02N04W32CCB1	221	3-19	77.47	+3.45	-0.98	
02N05W05BBB1	221	3-22	77.17	+ .05	-5.17	
02N05W13AAB1	223	3-19	69.25	-6.01	-1.79	
02N05W29DDB1	228	3-19	84.10	+6.34	+20.90	
02N06W22BCD1	236	3-19	112.70	- .17	-2.28	
03N04W03AAC1	187	3-15	23.27	- .38	-1.85	
03N05W03DBB1	207	3-22	53.45	+1.80	-5.39	
03N06W01BCB1	216	3-22	68.57	- .89	-3.98	
04N04W07ADC1	195	3-15	26.89	-1.21	-4.53	
04N05W07CDC1	212	3-22	60.63	- .63	-3.18	
04N05W21DDD1	205	3-22	55.13	+ .13	-5.91	
04N06W21BCC1	220	3-22	62.25	-3.19	-2.03	
04N07W01CCC1	212	3-22	47.90	-2.90	-5.71	
05N05W14DCD1	205	3-22	34.50	+2.22	-5.16	
01S05W14BBC1	211	3-18	101.36	- .46	- .44	
01S06W13DCD1	224	3-22	107.40	+1.02	-2.70	
02S06W14BAB2	201	4- 9	65.66	- .09	-2.54	
PULASKI COUNTY						
01N10W17BAC1	246	3-24	13.00	+0.44	-1.10	
02N10W05BCC1	239	3-24	19.26	+2.42	+2.19	
01S10W07BDC1	240	3-24	7.64	-----	+1.68	
02S10W16CCA1	231	3-23	18.72	+ .40	-1.83	
RANDOLPH COUNTY						
18N01E34AAC1	266	3-25	13.28	+0.61	-2.48	
19N02E09DCA1	267	3-25	7.25	+6.97	-7.20	

Table 1.--Measurements of water levels made in 1982 in wells completed in the alluvial aquifer--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
ST. FRANCIS COUNTY						
04N01W28CDD1	208	3-15	55.56	-----	-----	New well.
04N01E13DDA1	208	3-15	47.03	-1.25	-4.05	
04N02E03DDD3	210	3-15	31.54	- .64	-1.75	Arkansas Power & Light Co.
04N03E21DAD1	236	3-18	50.06	- .90	-2.39	
04N05E22BBB1	200	3-17	27.05	+ .41	+ .94	
05N04E08DDD1	203	3-15	28.03	+2.17	- .79	
05N06E34CAB1	200	3-17	23.98	-2.49	-2.87	
06N01E33ACA2	211	3-18	45.35	- .02	-3.99	
06N02E24AAA1	232	3-18	54.79	- .52	-3.53	
06N05E22ACC1	200	3-15	24.61	- .46	-1.33	
WHITE COUNTY						
05N07W09AAA1	205	3-24	16.45	-2.36	-6.66	
05N07W10CCC1	203	3-24	15.10	-1.90	-3.02	
05N08W23DCB1	211	3-24	12.62	- .70	-2.91	1979-82.
06N06W34BAA1	216	3-25	42.90	- .05	-3.98	
06N07W17DCC1	217	3-24	17.32	- .56	-9.63	
07N05W29CAB1	215	3-25	24.45	-----	-3.36	
07N06W19CAB1	224	3-25	6.45	- .78	-3.50	
08N05W01ABA1	218	3-25	14.35	+1.85	-2.81	
09N04W01ABC1	215	3-25	16.28	+14.30	-2.52	
WOODRUFF COUNTY						
05N01W16BCC1	211	4- 8	50.41	-0.01	-2.81	
05N02W20DCB1	192	4- 8	12.94	- .19	-2.27	
05N04W12DBA1	186	4- 8	4.02	- .26	+ .38	
06N01W06BAB1	202	4- 8	20.42	-1.04	-3.18	
06N01W33ADB1	216	4- 8	50.80	-2.32	-4.76	
07N02W17CBD1	196	4- 8	9.61	-1.53	-3.28	
08N03W31AAD1	212	4- 8	21.59	-1.73	-1.71	

Table 2.--Measurements of water levels made in 1982 in wells completed in the
Cockfield Formation

Well number	Altitude of land surface (feet)	Depth to wa- ter below land land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
ARKANSAS COUNTY						
08S02W04ACA1	165	3-15	70.85	-8.46	-9.85	
ASHLEY COUNTY						
15S04W26CBC1	128	3-30	32.22	-0.50	-2.65	Town of Boydell.
15S07W32CBA2	188	3-30	89.10	-1.13	-4.80	Fountain Hill public supply.
17S04W10BCD2	125	3-30	26.79	- .44	-2.53	Portland public sup- ply.
17S06W07ADA1	174	3-30	71.34	+1.16	-4.19	Hamburg Industrial Park.
18S04W19DAA1	116	3-30	25.17	- .92	-4.82	Parkdale public sup- ply.
18S08W04BBC1	149	3-31	86.44	-21.74	-8.46	N. Crossett public supply 2.
19S05W12CAC1	115	3-30	26.41	- .38	-3.03	Wilmot public supply.
BRADLEY COUNTY						
14S09W04AAC1	162	3-25	75.79	-1.69	-2.88	1979-82.
14S10W31DBA1	193	3-25	85.08	- .08	-5.16	Hermitage public sup- ply.
15S12W11CAB1	155	3-25	21.54	- .14	+1.88	
16S10W11DCB1	152	3-25	50.30	- .73	-1.38	Vick School.
16S11W11ACA1	141	3-25	30.39	-1.72	+1.23	
CALHOUN COUNTY						
14S13W01AAA1	212	3-23	9.98	+0.12	-0.13	

Table 2.--Measurements of water levels made in 1982 in wells completed in the
Cockfield Formation--Continued

Well number	Altitude of land surface (feet)	Depth to wa- ter below land land surface Date	Feet	Net change in water level (feet)		Remarks
				1981-82	1978-82	
CHICOT COUNTY						
14S03W05BBA1	139	3-23	63.38	+0.58	-3.16	Dermott public supply.
15S03W21ABA1	122	3-23	26.54	- .65	- .78	
16S02W02BDC2	120	3-24	30.21	+1.62	-4.18	Lake Village public supply.
18S02W25ABB3	135	3-24	43.70	-1.20	-1.52	Eudora public supply 3.
18S03W14CCC1	98	3-24	9.80	+ .80	+1.00	
CLEVELAND COUNTY						
08S11W002BCB1	245	3-23	119.33	-0.83	+10.35	Highway rest area.
10S12W12BFDD1	220	3-26	104.47	-1.77	-5.59	Kingsland public sup- ply.
DREW COUNTY						
12S08W34BBB1	158	3-25	80.53	-0.86	-5.18	
13S05W35ABB1	170	3-25	77.46	+1.54	-4.07	
14S07W26BAB1	230	3-25	113.57	- .52	-3.27	
LINCOLN COUNTY						
10S05W06CAC1	170	3-24	100.30	-2.83	-6.91	
UNION COUNTY						
1/17S13W17DDC1	225	4- 1	41.89	+0.89	+4.40	
17S15W36BAA1	260	3-31	44.20	+ .90	- .93	Cities Service Co.

1/ Well formerly believed to tap Cook Mountain

Table 3.--Measurements of water levels made in 1982 in wells completed in the Sparta Sand

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
ARKANSAS COUNTY						
02S04W06CDB1	212	3-18	135.56	+1.25	-13.70	
02S04W23DAA1	208	3-18	125.68	- .07	-14.10	
02S05W34BDA1	216	3-17	155.95	+ .05	-15.04	U.S. Geological Survey recorder.
03S04W02CCB1	202	3-17	129.02	+1.26	-13.05	
03S04W26CDA1	203	3-17	131.08	+2.42	-13.26	Almyra public supply.
03S04W33BAA1	201	3-17	135.67	-1.28	-14.92	
03S05W02AAB1	210	3-17	151.28	+ .69	-15.96	
03S05W13BDC1	210	3-18	152.28	- .88	-19.36	
03S05W15CBB1	206	3-18	147.57	- .64	-16.09	
03S05W18CAB1	196	3-18	140.46	+ .03	-14.53	
03S06W21ACC1	195	3-18	136.99	-2.29	-16.94	
03S06W30BBD1	191	3-18	132.86	+ .48	-15.37	Humphrey public supply.
04S01W04ACC2	199	4-21	93.31	-1.13	-8.91	
04S04W11BCC1	198	3-17	131.86	+ .30	-12.56	
04S04W19CBB1	195	3-16	135.76	+ .06	-16.01	
04S04W22DAA1	195	3-16	139.94	-7.92	-21.52	
04S05W01BAAL	196	3-18	138.65	+ .30	-14.77	
04S05W36DCC1	196	3-17	135.90	- .02	-13.93	
05S03W04ADB1	187	3-16	121.77	-4.92	-16.65	DeWitt public supply.
05S04W26ACA1	188	3-16	110.10	+5.45	- 5.57	
05S05W36DAA1	180	3-16	118.90	- .57	-12.26	
06S02W06ABB1	181	3-16	98.38	-1.41	-10.00	
06S02W22CDB1	186	3-16	92.90	- .95	- 4.53	
07S02W28ABA1	181	3-15	87.69	- .93	- 9.44	1979-82.
07S03W06ABC1	185	3-15	107.47	0	- 9.44	Gillett public supply.
08S02W01CBA1	165	3-15	65.55	+ .37	- 3.13	Lock and Dam 1.
08S02W04BCB1	178	3-15	80.07	-----	- 4.75	Lock and Dam 2.
08S03W04DBD1	176	3-15	92.73	-1.45	- 8.48	Arkansas Post National Memorial.
08S03W-Tr 2299	175	3-15	89.32	+ .40	- 4.87	Moores Bayou recreation area.
08S03W-Tr 2404	168	3-15	79.56	- .99	- 7.17	Notrebes Bend recreation area.

Table 3.--Measurements of water levels made in 1982 in wells completed in the
Sparta Sand--Continued

Well number	Altitude of land surface (feet)	Depth to wa- ter below land land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
BRADLEY COUNTY						
13S09W06ACA1	208	3-25	145.65	+0.20	-0.01	Warren public supply.
13S11W17BCD1	250	3-25	174.95	+1.07	+3.85	Barks public supply.
16S12W21CAA1	100	3-25	59.18	- .23	-9.95	
CALHOUN COUNTY						
12S12W32DAA1	176	3-23	93.74	-2.31	0	Tinsman public supply 2 1979-82.
13S13W32CDA1	208	3-23	156.30	+7.30	- .36	Hampton public supply.
14S13W12CCB1	205	3-23	154.28	+5.29	-2.40	Harrell public supply.
CLEVELAND COUNTY						
09S11W01DCA1	230	3-26	171.00	- 1.42	-15.73	Rison public supply.
09S11W01DDA2	266	3-26	199.00	- 1.40	-15.87	Do.
10S09W23CDC1	220	3-25	145.50	- 2.02	- 8.25	Highway 15 water user.
COLUMBIA COUNTY						
16S20W18ACD1	337	3-29	256.11	- 0.48	- 6.52	McNeil public supply 2.
16S21W14CBB1	281	3-30	209.23	- 1.42	-12.47	Waldo public supply.
16S21W15CBC1	288	3-30	202.44	- .93	-10.55	Do.
16S21W35CCD1	275	3-30	263.63	+34.26	+28.09	Magnolia public supply 9.
17S19W15ABD1	325	3-31	281.94	- 1.82	- 6.55	Village Corp.
17S19W30ABB1	248	3-29	203.62	- .07	- 3.83	City of Magnolia, 1978- 82.
17S20W15ABB1	350	3-29	346.72	- 1.85	-10.15	Carter Oil Co.
17S20W17CDA1	325	3-30	294.13	+38.87	+56.97	Magnolia public supply 8.
17S21W01BBC1	305	3-30	329.33	- 2.29	-23.12	Southern Arkansas University 3.
17S21W11DCC2	303	3-30	315.62	+12.21	+ 8.81	Magnolia public supply 2.

Table 3.--Measurements of water levels made in 1982 in wells completed in the Sparta Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
COLUMBIA COUNTY--Continued						
18S19W17ACCL	288	3-31	240.57	-0.72	- 4.21	Hiwan Oil & Gas Co.
18S20W06DDCL	300	3-30	295.98	-1.74	- 4.14	Magnolia Country Club.
18S20W18ABDL	276	3-30	283.89	+6.68	+11.20	Bromet Co.
18S21W09AAAL	310	3-30	278.94	-3.90	+ 9.97	Arkla. Gas Co.
18S22W08ACBL	250	3-30	46.51	+ .27	+ .37	
19S20W08DADL	320	3-30	246.64	+1.25	- 2.10	Emerson public supply 1.
19S20W09CAC1	332	3-30	257.90	+1.19	- 2.15	Emerson public supply 2.
19S21W16DBBL	284	3-30	171.17	+2.92	+13.55	
19S23W11CDAL	248	3-30	51.93	+ .54	+ .59	Taylor public supply.
CROSS COUNTY						
06N04E06ACAL	358	4- 8	186.09	-1.59	- 4.78	Village Creek State Park.
07N03E16CCC3	253	4- 8	78.57	- .82	- 3.59	Wynne public supply 3.
07N05E03BCD2	211	4- 7	29.71	+ .47	- .06	Parkin public supply 2.
09N01E16CAC1	234	4- 8	62.18	+2.02	- 1.88	Hickory Ridge public supply 1.
09N03E22AAD1	278	4- 9	103.81	- .97	- 5.56	Cherry Valley public supply 1.
09N04E30DCA1	429	4- 8	258.50	-2.40	-10.90	Vanndale-Birdeye.
DALLAS COUNTY						
07S14W31AAAL	330	3-23	111.15	+1.25	- 0.07	Carthage public supply.
09S13W35CCD1	200	3-23	60.78	-1.15	- 4.86	
10S13W34ACA2	272	3-23	140.04	+ .15	- 5.34	Fordyce public supply.

Table 3.--Measurements of water levels made in 1982 in wells completed in the Sparta Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
DESHA COUNTY						
09S02W26AAC1	153	3-23	58.00	+0.48	- 8.68	Watson public supply.
09S04W08DDA1	163	4-21	88.30	-2.57	-10.09	Arkansas State Police.
09S04W28DDD1	165	3-22	84.49	- .31	- 3.19	Dumas public supply.
10S02W26CCC2	148	3-23	56.66	+ .84	- 7.18	U.S. Fish and Wildlife Service.
11S02W03CCA1	139	3-23	47.56	-2.69	- 5.51	
12S03W34DAD1	147	3-22	66.58	-1.89	- 5.89	McGehee public supply 3.
DREW COUNTY						
11S04W25DAA1	148	3-25	66.98	-0.85	- 6.61	Tillar public supply.
11S06W11DBC1	203	3-24	129.08	- .64	- 6.74	
12S06W32DAD1	212	3-26	161.52	-2.47	- 7.09	Former Prisoner of War Camp.
13S05W36ACB1	169	3-25	79.77	-2.59	- 5.94	Collins public supply.
13S07W10BCA1	265	4-22	192.32	-----	- .63	University of Arkansas at Monticello, Ark.
15S04W12DDA1	125	3-25	50.85	- .86	- 3.95	
GRANT COUNTY						
03S14W20ADB1	320	3-26	26.29	-0.46	+ 2.25	
04S14W14ADC1	310	3-26	80.91	- .36	- 1.88	
05S13W03CDA4	281	3-26	103.70	+10.93	- 4.10	Sheridan public supply 2.
05S13W03DBC1	260	3-26	80.85	+ .07	- 3.71	Sheridan public supply 3.
05S14W06DCC1	293	3-26	86.40	-2.48	- 2.08	Prattsville public supply.
05S15W05ABD1	232	3-26	15.63	-1.33	- 2.21	Poyen public supply.
06S11W05ACAL	280	3-26	178.72	-1.38	- 5.43	Center Grove public supply.
06S15W26ACAL	280	3-26	62.20	+ .38	- .73	Leola public supply.

Table 3.--Measurements of water levels made in 1982 in wells completed in the Sparta Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
JEFFERSON COUNTY						
03S08W19BBD1	215	3-22	145.79	+8.21	-13.22	Tucker Prison.
03S10W17DBA1	217	4-21	93.64	- .74	- 7.08	Tar Camp recreation area.
03S10W32DAB1	226	3-22	119.49	-3.12	-13.05	Lock and Dam 5 recreation area.
03S11W22ABC1	310	3-22	165.80	-4.43	-11.70	Redfield public supply.
03S11W25ADC4	311	3-22	190.48	-4.53	-15.66	Arkansas Power & Light Co. White Bluff test hole.
04S07W17BCC1	200	3-22	156.05	-1.57	-12.94	Wabbaseka public supply.
04S08W30AAD1	212	3-22	189.77	+5.15	-14.87	
04S10W22BDD1	244	3-22	175.70	-5.10	- 9.68	Pine Bluff Arsenal 11.
04S10W29ADB1	268	3-22	189.11	- .03	-13.39	Pine Bluff Arsenal 9.
04S11W14BAD1	400	3-22	291.65	-3.02	- 5.10	Jefferson public supply 1.
05S08W29BDD1	195	3-23	249.92	+ .67	-18.28	U.S. Army Corps of Engineers recreation area.
05S08W30ADB1	221	3-23	284.00	-1.64	-14.48	Lock and Dam 4.
05S08W30CBA1	207	3-23	280.46	+ .59	-17.01	International Paper Co. 7.
05S09W19BAA1	227	3-23	217.24	- .95	-12.29	Dierks Paper Co. 2.
05S09W19BAD1	220	3-23	217.15	+27.55	-15.40	Dierks Paper Co. 1.
05S09W24DBD1	208	3-23	263.65	+ .82	-17.06	International Paper Co. 10.
05S09W35AAB1	205	3-23	267.45	+4.14	-16.72	International Paper Co. 5.
05S10W16DBD1	300	3-22	248.44	-2.73	-13.94	Whitehall public supply 1.
06S06W20CAA1	193	3-23	144.93	-1.74	-13.03	Lock and Dam 3.
06S07W33DDD1	195	3-23	166.58	-1.38	-12.90	Linwood School.
06S08W10CAC1	203	3-23	249.66	+1.03	-15.36	International Paper Co. 1.
06S08W16CCC1	202	3-23	239.27	+2.23	-15.18	International Paper Co. 3.
06S08W25ADC1	203	3-23	205.63	-2.66	-13.38	International Paper Co. 2.
06S09W17CCA1	234	3-22	255.90	-1.24	-21.57	General Water Works.

Table 3.--Measurements of water levels made in 1982 in wells completed in the Sparta Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Feet	Net change in water level (feet)		Remarks
				1981-82	1978-82	
JEFFERSON COUNTY--Continued						
07S07W24BAB1	188	3-23	141.30	+0.15	-13.74	Tamo public supply.
07S09W35CCB1	270	4-27	223.00	+1.06	-11.58	Highway 15 public supply.
07S10W24CAC1	311	4-27	261.02	-----	-----	New well.
LAFAYETTE COUNTY						
19S25W13CAB1	255	4- 7	39.47	-1.24	- 0.92	
20S23W05ADB1	242	4- 7	40.46	- .86	+ 2.65	
LEE COUNTY						
02N03E14CCC4	232	3-18	66.24	-0.68	- 2.77	Marianna public supply 4.
03N03E28CDB1	207	3-18	47.43	- .85	- 6.11	Marianna public supply 5.
03N05E19ADA1	200	3-17	26.62	- .25	- 1.80	
LINCOLN COUNTY						
06S06W34DBA1	187	3-23	139.46	-5.49	-12.47	Huffs Island recreation area.
07S07W30CDC1	208	3-24	170.44	-16.40	-16.40	Tarry public supply.
08S05W03BAA2	180	3-23	116.65	-3.51	-13.06	Cummins Prison.
08S05W35ACCL	165	3-23	104.53	-19.09	-11.40	Gould public supply.
08S08W35DBB1	240	3-25	188.00	-1.80	-14.17	Yorktown public supply.
09S07W07DAD1	300	3-25	242.65	-2.70	-13.61	Star City public supply.
09S08W05CBB2	265	3-24	169.56	- .95	+13.39	Glendale School
10S05W05ADB1	171	3-24	98.65	-1.97	- 8.71	

Table 3.--Measurements of water levels made in 1982 in wells completed in the
Sparta Sand--Continued

Well number	Altitude of land surface (feet)	Depth to wa- ter below land land surface Date	Feet	Net change in water level (feet)		Remarks
				1981-82	1978-82	
LONOKE COUNTY						
02S08W16BDA1	216	3-22	98.60	+2.27	-5.80	Coy public supply.
MONROE COUNTY						
03N02W12CBC1	186	3-15	23.42	+1.32	-0.98	U.S. Geological Survey test well.
01S02W22DBB1	181	----	-----	-----	-----	No measurement.
OUACHITA COUNTY						
11S15W27ABD1	200	3-29	72.72	-0.79	- 7.79	
12S16W12ADB1	159	3-24	26.77	- .46	- 2.98	
12S18W19CDC1	235	3-24	46.57	+ .39	- .32	
13S16W08CAAL	122	3-23	22.75	+3.03	+ 2.64	
14S17W02ABB1	120	3-23	97.26	+24.16	+45.20	International Paper Co. 1B.
14S17W05CAD1	157	3-24	40.92	-1.02	- .68	Arkansas State Highway and Transportation Commission.
15S16W23DAC1	170	4- 1	126.96	-1.29	- 5.27	Smackover Country Club.
15S19W10DCC1	210	3-24	72.24	-1.62	- 5.57	Stephens public supply.
PHILLIPS COUNTY						
01S02E32DDC1	211	3-19	67.02	-1.73	- 3.87	Marvell public supply.
02S04E02DBA1	250	3-18	106.04	+2.25	+ 1.68	West Helena public supply 9.
02S05E04CDC1	183	3-18	26.70	-1.31	-10.27	Helena Swimming Pool.
02S05E16BCB1	180	3-18	50.40	+3.92	- 7.17	Helena Cotton Oil Co.
02S05E29CCC1	179	3-18	29.58	+27.17	+29.26	Gardinier-Big River Inc.
03S03E30DAA1	172	3-19	31.12	-3.57	+ 1.11	Lakeview-Wabash public supply.
04S02E25CCC1	166	3-19	34.51	-1.99	- 7.35	Elaine public supply.

Table 3.--Measurements of water levels made in 1982 in wells completed in the Sparta Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
POINSETT COUNTY						
10N01E15DBB1	232	4- 6	67.84	-2.48	- 7.12	Fisher public supply. Harrisburg public supply 3.
11N03E25ACCL	273	4- 7	102.04	- .14	- 1.51	
PRAIRIE COUNTY						
01N05W19CDC1	212	3-22	120.95	-0.63	-13.29	
01N06W02ABB1	223	3-19	98.50	+2.52	- 6.78	
02N04W19ACB1	211	3-19	79.30	+2.36	- 7.62	
02N06W20BCB1	236	3-19	114.59	- .65	- 5.00	
02N06W21DAD1	232	3-19	103.69	- .72	- 5.63	
01S05W06BCB1	220	3-19	131.76	- .70	-13.87	
01S05W20ABB1	220	3-22	134.40	+ .92	-13.88	
01S06W11DBD1	226	3-19	140.98	+4.39	-13.12	
PULASKI COUNTY						
01N11W24ACD1	237	3-26	10.67	+0.11	- 0.76	Willow Beach recreation area.
01N11W35BAC1	235	4-21	11.71	- .34	- .81	D. D. Terry West recreation area.
02S11W02BCA1	220	4-21	22.97	- .40	- 4.70	Wrightsville recreation area.
02S11W29AAA1	245	4-21	33.28	- .53	- 4.10	Hensley-Woodson public supply.
UNION COUNTY						
16S14W15CAB1	94	4- 2	130.15	+2.07	-1.54	Calion public supply.
16S15W21BCC2	192	4- 1	274.81	+1.42	- 6.10	Norphlet public supply 2.
16S16W02ABC1	116	4- 1	159.03	-3.05	-9.53	Smackover public supply 5.

Table 3.--Measurements of water levels made in 1982 in wells completed in the Sparta Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
UNION COUNTY--Continued						
17S12W32BBC1	230	4- 1	227.93	-3.81	- 2.93	New London Water Association.
17S13W31BAC1	225	4- 1	279.68	+4.32	+ 6.32	Lawson-Urbana.
<u>1</u> /17S14W10DCB1	180	4- 1	90.21	+2.05	+ .40	
<u>1</u> /17S14W15ABA1	180	4- 1	90.09	+2.74	+ 1.90	
17S15W18DBB1	183	3-31	332.00	+1.43	- 4.94	Monsanto detector well 8A (recorder).
17S15W28DBA1	235	4-29	398.48	-----	-----	El Dorado public supply 8.
17S15W29CDC1	220	3-31	387.55	-6.65	- 6.84	El Dorado public supply 13.
17S15W31DDB1	272	3-31	433.04	+ .47	+ 1.98	Lion Oil Refining 8.
17S16W24BDB1	220	3-31	359.93	-4.01	+ .99	El Dorado public supply 17.
17S17W30DCD1	280	3-29	291.67	-1.78	- 6.57	Marysville Water District Association.
18S15W07BAD2	260	3-31	338.77	-2.94	- 6.28	K. Buchanan 2.
18S15W08ABA1	200	4- 2	358.93	-8.69	+ 5.44	Gay Oil Co.
18S15W33ADA1	253	3-31	372.97	-6.09	-20.40	Faircrest public supply.
18S16W11DAB1	270	3-31	419.31	-5.77	- 9.97	Parker Chapel 2.
18S16W12ACB1	303	4-29	444.54	-----	-----	Parker Chapel 1.
18S17W13ACC1	220	3-29	306.17	-1.82	- 7.15	Kin Ark Oil Co.
18S17W18BBD1	270	3-29	296.21	+6.48	-12.41	Shuler No. 3.
18S17W22BDD1	280	3-31	339.61	- .13	- 6.86	U.S. Geological Survey recorder.
19S10W19CCD1	98	4- 1	90.42	-3.14	- 3.04	Huttig public supply 1.
19S11W25AAA1	135	4- 1	135.71	-3.92	- 4.89	Huttig public supply 2.
<u>1</u> /19S15W01CCA1	182	3-31	66.08	- .49	- 1.23	
19S16W35DDC1	175	3-31	210.26	-1.66	- 3.32	Junction City public supply 2.
WOODRUFF COUNTY						
05N02W31DCB3	193	4- 8	15.62	+0.08	+ 6.29	Cotton Plant public supply.

1/ Well formerly believed to tap Cook Mountain Formation

Table 4.--Measurements of water levels made in 1982 in wells completed in the Cane River Formation

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
COLUMBIA COUNTY						
16S21W16BCA2	320	3-30	107.73	- 0.10	-0.30	Waldo public supply.
DALLAS COUNTY						
09S17W28ADB1	172	3-24	120.77	- 3.54	-4.32	Sparkman public supply.
LAFAYETTE COUNTY						
16S23W10DCA2	293	4- 6	75.92	-13.03	-4.00	Arkansas Power & Light Co.
19S25W13CDB2	255	4- 7	109.47	- 7.02	+6.78	Bradley public supply.

Table 5.--Measurements of water levels made in 1982 in wells completed in the Carrizo Sand

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
HOT SPRING COUNTY						
06S17W34ABB1	364	4- 8	95.66	+5.70	+3.92	Texas Eastern.
JEFFERSON COUNTY						
05S08W19DCD1	205	3-23	22.35	-0.73	-1.21	International Paper Co.

Table 6.--Measurements of water levels made in 1982 in wells completed in the Wilcox Group, including the "1,400-foot" sand

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Feet	Net change in water level (feet)		Remarks
				1981-82	1978-82	
CLAY COUNTY						
19N07E23DCC1	280	3-24	15.18	+1.42	-1.48	Rector old public supply 1.
CRAIGHEAD COUNTY						
13N07E14BBA2	221	3-23	17.29	+0.60	-4.69	Caraway public supply.
14N06E27ACB2	227	3-23	20.86	+ .74	-5.26	Lake City public supply 2.
14N07E17DCB1	232	3-23	21.34	+ .71	-5.31	Black Oak public supply.
CRITTENDEN COUNTY						
04N07E23BCD1	200	3-17	11.66	+0.71	+0.05	Snowden Plantation.
04N07E36ADB1	201	3-17	24.75	-5.25	-6.03	Surf Club Inc.
05N07E01ABB1	207	3-17	28.68	+5.90	-1.08	Midway Water Association.
05N07E29ACC1	200	3-17	28.86	- .79	-6.96	
06N09E18BBB1	210	3-16	49.56	+7.39	+4.99	West Memphis public supply 1.
07N07E14CCC1	223	3-16	45.96	- .06	-3.14	Crawfordsville public supply.
07N08E24CAB1	221	3-17	48.13	- .95	-----	Marion public supply 1, 1974-82.
08N06E33CBD1	215	3-16	32.89	- .49	-6.84	Earle public supply.
09N08E29ADD1	225	3-16	37.76	+ .94	-5.69	Turrell public supply.
CROSS COUNTY						
09N05E07ACB1	205	4- 9	21.52	-1.97	-9.23	Delta Farms.

Table 6.--Measurements of water levels made in 1982 in wells completed in the Wilcox Group, including the "1,400-foot" sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
GREENE COUNTY						
17N06E31DCB1	285	3-24	103.72	+6.23	-11.63	Paragould public supply 1.
LEE COUNTY						
01N04E09DCC1	204	3-18	27.10	-1.38	- 7.58	U.S., Geological Survey test well.
LONOKE COUNTY						
04N09W28CCD1	325	3-24	48.76	-2.02	- 5.74	E. M. Cherry well.
MISSISSIPPI COUNTY						
10N08E17ADD1	225	4-15	30.40	+0.54	- 2.50	Birdsong-Whitten Water Association
11N08E10AAC1	220	4-15	20.78	+ .77	+ 7.69	Dyess public supply.
11N09E33AAB1	237	4-15	38.40	+ .73	- 5.75	Bassett public supply.
11N10E20ADA1	235	4-15	35.45	+ .16	- 6.54	Wilson public supply.
12N09E11DBB1	230	4-15	25.25	- .27	- 5.55	Keiser public supply.
12N11E17CDD1	245	4-15	42.40	+ .68	- 4.50	Cargill Inc.
13N11E08DDA1	245	4-14	31.06	- .86	+ .53	Luxora public supply 2.
13N11E08DDD1	245	4.14	34.34	- .44	- 5.86	Luxora public supply 1.
14N09E01DDA1	238	4-15	12.14	+2.08	- 1.04	
14N11E20CCA1	240	3-19	25.55	+ .11	- 3.47	Burdette public supply, 1979-82.
15N08E08DBC1	236	4-14	8.59	+1.57	- 1.76	Leachville public supply.
15N09E31ACD1	240	4-14	21.74	-3.76	- 4.79	Manila public supply.
15N10E01ADD1	248	3-19	19.12	+ .58	- 6.09	Gosnell public supply.
15N11E15BDC1	255	3-19	46.38	-1.68	-----	Blytheville public supply 4.

Table 6.--Measurements of water levels made in 1982 in wells completed 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	Feet	Net change in water level (feet)		Remarks
				1981-82	1978-82	
MISSISSIPPI COUNTY--Continued						
15N11E17ADB1	252	3-19	31.57	+0.31	- 3.02	
16N11E22CCC1	253	3-19	22.10	-----	- 7.22	Arkmo Power Co. 1976-82.
16N11E27CBA1	251	3-19	15.30	+ .45	- 2.48	Yarbro public supply.
POINSETT COUNTY						
10N07E16CBB2	218	4- 9	33.18	+1.11	- 5.89	Tyronza public supply 3.
11N06E35CDA3	215	4- 7	35.65	-2.60	-16.01	Marked Tree public supply 3.
11N07E03BDD1	216	4- 7	16.14	- .69	- 4.34	Lepanto public supply 2.
12N05E13BBB1	222	4- 7	27.58	- .58	- 6.95	Trumann public supply 1.
ST. FRANCIS COUNTY						
04N06E21BAD2	201	3-17	25.69	-0.37	- 8.29	Hughes public supply 2.

Table 7.--Measurements of water levels made in 1982 in wells completed in the Nacatoch Sand

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
CLARK COUNTY						
08S19W09ACCL	177	3-24	+5.60	+0.60	- 0.40	
09S20W16DDCL	232	3-24	81.45	+7.86	-27.77	Arkla Chemical Corp.
09S20W32ACA1	220	3-24	38.05	- .75	-----	New well. Cove Lumber Company.
CLAY COUNTY						
19N04E01BDB2	280	4- 6	16.43	-----	-----	New well.
19N07E23DCB1	290	3-24	26.70	- 1.06	- 0.50	Rector public supply 1.
20N08E10ABC1	340	3-24	61.24	- .62	- .27	
20N08E11BAC2	290	3-24	15.02	- .82	+ 2.23	Piggott public supply 2.
20N08E28BDC1	286	3-24	11.14	+ .78	+ .93	Greenway public supply.
21N06E23DAC1	300	3-24	17.18	+ 1.14	- 2.96	McDougal public supply.
21N09E18DBA1	295	3-24	3.36	- .58	- 3.11	St. Francis public supply.
GREENE COUNTY						
18N06E14CCD1	292	3-24	30.40	-----	-14.42	Lafe Water District.
DUNKLIN COUNTY, MISSOURI						
21N09E04DDD1	305	3-24	14.02	- 3.52	- 2.78	Campbell, Mo., public supply.
HEMPSTEAD COUNTY						
12S24W33CBD1	340	3-25	178.86	+15.87	+50.53	
13S25W35DDC1	373	3-25	186.50	+ 6.20	+ 3.64	

Table 7.--Measurements of water levels made in 1982 in wells completed in the Nacatoch Sand--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Feet	Net change in water level (feet)		Remarks
				1981-82	1978-82	
MILLER COUNTY						
14S28W13CCB1	266	3-25	27.48	+0.42	+ 0.43	
NEVADA COUNTY						
11S22W08DAC2	306	3-24	108.79	-1.44	+11.20	Prescott public supply
12S22W03CAA1	233	3-24	21.55	- .38	- 3.33	4..

Table 8.--Measurements of water levels made in 1982 in wells completed in the
Tokio Formation

Well number	Altitude of land surface (feet)	Depth to wa- ter below land land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
HEMPSTEAD COUNTY						
09S23W33CDA1	270	3-24	+1.80	-0.40	-0.40	
09S26W18CBB1	424	3-26	21.01	- .15	- .96	
12S24W06CDC1	355	3-25	185.18	+4.70	-5.58	Hope public supply 5.
12S24W06DAD1	355	3-25	180.97	+4.39	-18.50	Hope public supply 2.
HOWARD COUNTY						
09S28W20DAC1	480	3-26	11.54	+0.54	-0.03	
11S28W02CDA1	309	3-26	23.97	-1.01	-1.49	
NEVADA COUNTY						
11S22W08DAC1	305	3-24	136.71	+33.62	+3.98	Prescott public supply 1.

Table 9.--Measurements of water levels made in 1982 in wells completed in the Trinity Group or Pike Gravel of Trinity Group

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
PIKE COUNTY						
08S25W17ABC1	360	3-26	3.89	-0.18	-0.26	
SEVIER COUNTY						
08S31W26BAA1	475	3-26	7.33	-0.33	+0.35	Trinity Group.
09S30W23BDC4	432	3-26	79.60	-1.59	+12.52	Lockesburg public supply 4; Trinity Group.
09S30W23BDD1	440	3-26	77.24	+3.34	+4.52	Lockesburg public supply; Trinity Group.

Table 10.--Measurements of water levels made in 1982 in wells completed in the Atoka Formation or Jackfork Sandstone

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	ter below land surface Feet	Net change in water level (feet)		Remarks
				1981-82	1978-82	
CLEBURNE COUNTY						
09N09W34DCC1	620	4-20	111.54	+1.96	+12.62	Atoka Formation.
PIKE COUNTY						
07S25W18BBB1	563	3-26	12.70	+2.89	+3.73	U.S. Army Corps of Engineers; Jackfork Sandstone.

Table 11.--Measurements of water levels made in 1982 in wells completed in the Cotter Dolomite

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
IZARD COUNTY						
18N09W15AC1	820	4-21	157.70	-17.50	-56.55	Oxford public supply.

Table 12.--Measurements of water levels made in 1982 in wells completed in the
Everton Formation

Well number	Altitude of land surface (feet)	Depth to wa- ter below land land surface Date	Feet	Net change in water level (feet)		Remarks
				1981-82	1978-82	
NEWTON COUNTY						
16N21W34ABC1	880	4-23	64.65	-1.10	-0.53	Jasper public supply.
SHARP COUNTY						
15N05W06DDD1	645	4-20	111.60	-0.43	+107.77	

Table 13.--Measurements of water levels made in 1982 in wells completed in the Roubidoux Formation

Well number	Altitude of land surface (feet)	Depth to water below land surface Date	Feet	Net change in water level (feet)		Remarks
				1981-82	1978-82	
BENTON COUNTY						
19N28W11BAD1	1,260	5-11	169.73	+21.90	+23.96	U.S. Army Corps of Engineers.
19N29W18BBB1	1,345	6-10	204.03	- .14	-12.96	
21N33W23ACA1	1,036	5-12	163.67	-14.12	- 2.97	Sulphur Springs public supply.
CARROLL COUNTY						
19N23W04BAC1	1,375	5-11	249.52	- 7.62	-13.32	Green Forest public supply.
21N26W17BCC1	1,010	5-11	89.13	+15.87	+ 3.00	Holiday Island public supply 1.
FULTON COUNTY						
20N09W18ACB1	960	4-10	110.38	- 3.20	-17.78	Viola public supply, 1981-82.
MARION COUNTY						
19N15W20DBB1	630	4-22	92.40	+ 4.20	+13.91	Flippin public supply.
19N16W33CCB1	840	4-22	283.35	-63.55	+20.62	Yellville public supply.
NEWTON COUNTY						
15N21W13BDD1	2,135	----	-----	-----	-----	No measurement. Mocking Bird Hill public supply, 1982.

Table 13.--Measurements of water levels made in 1982 in wells completed in the Roubidoux Formation--Continued

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
RANDOLPH COUNTY						
20N02E06AAC1	485	4-21	145.57	-8.02	-63.35	Maynard public supply, 1981-82.
SHARP COUNTY						
19N04W15BAAL	590	4-21	24.15	+25.35	+8.92	Ozark Acres public supply 3.

Table 14.--Measurements of water levels made in 1982 in wells completed in the
Gunter Sandstone Member of the Van Buren Formation

Well number	Altitude of land surface (feet)	Depth to wa- ter below land land surface Date	Feet	Net change in water level (feet)		Remarks
				1981-82	1978-82	
BAXTER COUNTY						
19N13W16BAB1	740	4-22	100.85	+ 7.06	+ 9.42	Mountain Home public supply.
19N14W29DBC1	720	4-10	310.33	- 6.83	- 4.33	Cotter public supply.
BENTON COUNTY						
18N30W12CCC1	1,310	5-10	281.52	- 5.16	-20.07	Columbia Union Or- chards.
18N30W13DBA1	1,390	6-11	350.92	- 1.15	- 9.05	Columbia Union Or- chards.
19N29W07DAB1	1,220	5-12	129.23	- 4.75	-12.05	Rogers public supply.
20N33W14DBC1	1,230	5-12	378.75	- 6.00	-21.04	Gravette public sup- ply.
BOONE COUNTY						
18N19W19BCD1	1,150	4-22	218.20	-20.51	-19.09	Bellefonte public sup- ply.
18N19W33BBB1	1,300	4-23	447.40	+30.03	+13.67	Valley Springs Rural Water District.
CARROLL COUNTY						
19N23W08ADC1	1,325	5-11	246.43	-39.03	-21.77	Green Forest public supply.
20N26W16DCD1	1,200	6-10	207.91	+ .84	-----	Eureka Springs public supply.
21N26W15BAA1	1,102	5-11	99.72	+13.08	- 6.04	Holiday Island No. 2.
FULTON COUNTY						
19N06W23ADA1	682	4-21	211.63	+ 6.25	+10.62	Cherokee Village.
20N08W27ABD1	660	4-21	16.70	+ 8.56	+25.20	Salem public supply.

Table 14.--Measurements of water levels made in 1982 in wells completed in the
Gunter Sandstone Member of the Van Buren Formation--Continued

Well number	Altitude of land surface (feet)	Depth to wa- ter below land		Net change in water level (feet)		Remarks
		Date	land surface Feet	1981-82	1978-82	
MARION COUNTY						
19N16W32ADA1	950	4-22	444.80	+35.90	+35.12	Summit public supply.
NEWTON COUNTY						
17N20W21BCA1	1,344	4-23	415.44	+17.56	- 4.48	Marble Falls Estate public supply.
SHARP COUNTY						
18N06W10DCC1	655	4-20	124.00	+ 3.23	+ 7.29	Ash Flat public supply.
STONE COUNTY						
15N12W02BCA1	985	5-10	444.22	- 3.02	-16.80	Fifty-Six public sup- ply.
WASHINGTON COUNTY						
15N31W17BBC1	1,228	5-13	151.98	+ 1.62	+ 0.54	
15N31W30CAB1	1,175	5-13	25.73	- 4.22	+ .90	
16N32W09ABD1	1,135	5-12	113.90	+ .10	- 5.84	U.S. Forest Service Lake Weddington.
17N29W09ABD1	1,481	5-13	494.61	- 2.06	-51.68	White River Rural Water District.

Table 15.--Measurements of water levels made in 1982 in wells completed in the Potosi-Eminence Dolomite

Well number	Altitude of land surface (feet)	Depth to water below land surface		Net change in water level (feet)		Remarks
		Date	Feet	1981-82	1978-82	
BENTON COUNTY						
20N29W13BCA1	1,430	5-11	368.89	- 7.09	-10.89	Benton County Water District public supply.
BOONE COUNTY						
20N18W20CCD1	882	4-23	233.80	+12.73	- 1.45	Diamond City public supply 2, 1980-82.
CARROLL COUNTY						
20N26W23ACA1	1,296	5-11	432.35	+31.65	-42.79	Eureka Springs public supply.

