QUALITY OF GROUND WATER IN JACKSON COUNTY, MISSISSIPPI, MARCH - JUNE 1993

By Larry J. Slack, William T. Oakley, and Lance M. Cooper

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CONTENTS

ILLUSTRATIONS

TABLES

CONVERSION FACTORS AND WATER-QUALITY INFORMATION

Multiply	By	To obtain
foot	25.4	millimeter

To convert degrees Celsius (°C) to Fahrenheit (°F), use the following:

$$°C = 5/9 (°F-32)$$

Specific conductance is reported in microsiemens per centimeter at 25 °C (µS/cm); pH, in standard units. Chemical concentrations are given in milligrams per liter (mg/L) or micrograms per liter (µg/L). Milligrams and micrograms per liter are units expressing the weight of solute per volume (liter) of water. One thousand micrograms per liter is equivalent to 1 mg/L. For concentrations less than 7,000 mg/L, milligrams per liter are equivalent to "parts per million." Color is reported in platinum-cobalt units.

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ABSTRACT

From March through June 1993, the U.S. Geological Survey analyzed water from 150 wells in Jackson County, southeastern Mississippi. The wells are completed in four major geologic units: the Citronelle, Graham Ferry, and Pascagoula Formations and undifferentiated deposits of Miocene age. The wells ranged from 70 to 1,400 feet in depth. Water temperature ranged from 19.0 to 29.5 degrees Celsius; specific conductance (lab), from 32 to 2,340 microsiemens per centimeter; pH (lab), from 5.6 to 9.5; color, from less than 5 to 140 platinum-cobalt units; dissolved-solids concentrations (residue on evaporation), from 22 to 1,260 milligrams per liter; chloride concentrations, from 3.1 to 560 milligrams per liter; and nitrite plus nitrate as nitrogen concentrations, from less than 0.02 to 0.25 milligram per liter. Most of the larger values of specific conductance, color, dissolved-solids concentrations, and chloride concentrations were from wells in the southern one-half of the county.

INTRODUCTION

As part of the Federal-State Cooperative Program, the U.S. Geological Survey (USGS) collects, on a systematic basis, data needed for the continuing determination and evaluation of the quantity, quality, and use of water resources in the United States, and appraises the availability of ground and surface water through analytical and interpretive investigations. The resulting information forms the foundation for many of the Nation's water-resources management and planning activities and allows for the detection of emerging water problems.

From March through June 1993, in cooperation with the Jackson County Board of Supervisors, the USGS analyzed water from 150 wells to determine current water quality of the ground water in the southeastern Mississippi county. This report summarizes the site selection criteria and site information, the methods of sampling and analysis, and the results of the water-quality data for these wells.

SITE SELECTION CRITERIA AND SITE INFORMATION

Sites were selected to represent the major geologic units and depths at which wells have been completed in Jackson County. First preference in site selection was given to wells included in the USGS ground-water sampling network in the county in 1988. Other selection criteria included wells that were currently (1993) in use or had been in use recently.

Five of the 150 wells are completed in the Citronelle Formation, 57 in the Graham Ferry Formation, 70 in the Pascagoula Formation, and 18 in undifferentiated deposits of Miocene age (table 1, figs. 1-5). Water from 87 wells (about 58 percent) is used for domestic purposes; 37 wells (25 percent) for public supply; and 12 wells (8 percent) for industrial purposes. Water from the rest of the wells is used for aquaculture, commercial, institutional, and irrigation purposes, or is unused.

METHODS OF SAMPLING AND ANALYSIS

To obtain samples that closely represent ground water from the water-bearing unit, most of the wells were pumped long enough prior to sampling to withdraw at least twice the volume of water standing in the casing. The samples were shipped to the USGS Water Resources Division Water-Quality Service Unit in Ocala, Florida, where the samples were analyzed using standard USGS procedures.

RESULTS

Water-quality data collected from the 150 wells during the 1993 sampling are listed in table 2. These data include water temperature, specific conductance (field and lab), pH (field and lab), color, dissolved-solids concentration (residue on evaporation at 180 °C), chloride, and nitrite plus nitrate-nitrogen concentrations.

Additional water-quality data collected from 37 wells selected from the the 150 wells are listed in table 3. These data include nutrients (ammonia and orthophosphorus), major ions (calcium, magnesium, sodium, potassium, sulfate, fluoride, and silica), iron, manganese, and alkalinity.

For the convenience of the reader, the water-quality data collected from the 150 wells in Jackson County during the 1993 sampling are summarized in table 4. The data are presented individually for each of the major geologic units and then aggregated for all geologic units.

Also for the convenience of the reader, the areal distribution of specific conductance (lab), pH (lab), color, dissolved-solids concentration, and chloride concentration in ground water is mapped in figures 6-10. The relation of depth and specific conductance (lab), pH (lab), color, dissolved-solids concentration, and chloride concentration in ground water is shown in figures 11-15.

The wells ranged from 70 to 1,400 feet in depth and had a median depth of 505 feet (table 4). Well depths generally were smallest for those completed in the Citronelle Formation and greatest for wells completed in undifferentiated deposits of Miocene age. Median depth was 96 feet for wells completed in the Citronelle Formation; 352 feet for wells completed in the Graham Ferry Formation; 685 feet for wells completed in the Pascagoula Formation; and 932 feet for wells completed in undifferentiated deposits of Miocene age (table 4).

Water temperature ranged from 19.0 to 29.5 °C; the median temperature was 23.5 °C (table 4). Median temperature was least for water from the Citronelle Formation (21.5 °C) and largest for water from undifferentiated deposits of Miocene age (24.0 °C). Temperature generally increased with depth; however, the relation was poorly defined and showed considerable variation.

Specific conductance (lab) ranged from 32 to 2,340 microsiemens per centimeter; the median was 621 microsiemens (table 4). Most of the larger values of specific conductance were from wells in the southern one-half of the county (fig. 6). Specific conductance generally increased with depth; however, the relation was poorly defined and showed considerable variation (fig. 11).

The pH (lab) ranged from 5.6 to 9.5; the median was 8.7 (table 4). The pH values had no apparent pattern of areal distribution (fig. 7). Only the six wells less than 200 feet deep had water with a pH value less than 7.0; pH for water from the rest of the wells was unrelated to depth (fig. 12).

Color ranged from less than 5 to 140 platinum-cobalt units; the median was 20 platinum-cobalt units (table 4). Color exceeded 15 platinum-cobalt units in 83 of 150 samples (about 55 percent). However, color exceeded 75 units in only 10 samples (less than 7 percent). Most of the larger values of color were from wells in the southern one-half of the county (fig. 8). Color was unrelated to depth (fig. 13).

The determination of color represents an evaluation of a physical property and has no direct chemical significance. The color of natural water usually results from leaching of organic debris (Hem, 1985). The recommended limit of 15 platinum-cobalt units for color in public water supplies is based principally on aesthetic reasons (U.S. Environmental Protection Agency, 1986). Water consistently can be treated using standard coagulation, sedimentation, and filtration processes to decrease color to substantially less than 15 platinum-cobalt units when the source water does not exceed 75 platinum-cobalt units.

Dissolved-solids concentrations (residue on evaproation) ranged from 22 to 1,260 milligrams per liter; the median was 371 milligrams per liter (table 4). Dissolved solids exceeded 500 milligrams per liter in 48 of 150 samples (32 percent). However, dissolved solids exceeded 1,000 milligrams per liter in only four samples (less than 3 percent). Most of the larger values of dissolved-solids concentrations were from wells in the southern one-half of the county (fig. 9). Dissolved-solids concentrations generally increased with depth; however, the relation was poorly defined and showed considerable variation (fig. 14).

High dissolved-solids concentrations are objectionable because of possible physiological effects, mineral taste, and economic consequences of additional water treatment. The recommended limit of 500 milligrams per liter for dissolved solids in public water supplies is based largely on aesthetic reasons (U.S. Environmental Protection Agency, 1986). One concern is that drinking water containing a high concentration of dissolved solids is likely to contain an excessive concentration of some specific substance that would be aesthetically objectionable. Nationally, a considerable number of supplies with dissolved solids in excess of the 500-milligram per liter limit are used without any obvious ill effects. On the basis of practicality, a dissolved-solids concentration of 1,000 milligrams per liter is generally recommended as an upper limit for potable waters.

Chloride concentrations ranged from 3.1 to 560 milligrams per liter; the median was 25 milligrams per liter (table 4). Chloride concentrations exceeded 250 milligrams per liter in 10 of 150 samples (less than 7 percent) and exceeded 500 milligrams per liter in only one sample (less than 1 percent). Most of the larger values of chloride concentrations were from wells in the southern one-half of the county (fig. 10). Chloride concentrations generally increased with depth; however, the relation was poorly defined and showed considerable variation (fig. 15).

Similar to color and dissolved solids, the recommended limit of 250 milligrams per liter for chloride in public water supplies is based largely on aesthetic reasons (U.S. Environmental Protection Agency, 1986). However, on the basis of taste, there may be a large difference between detectable and objectionable chloride concentrations; acclimatization is thought to be an important factor.

Nitrite plus nitrate as nitrogen concentrations ranged from less than 0.02 to 0.25 milligram per liter; the median was <0.02 milligram per liter (table 4). The primary maximum contaminant level for nitrate-nitrogen is 10 milligrams per liter (U.S. Environmental Protection Agency, 1986). Nitrite plus nitrate as nitrogen concentrations were small and showed no pattern of distribution areally or with depth.

SUMMARY

From March through June 1993, the U.S. Geological Survey analyzed water from 150 wells in Jackson County, southeastern Mississippi. The wells are completed in four major geologic units: the Citronelle, Graham Ferry, and Pascagoula Formations and undifferentiated deposits of Miocene age.

The wells ranged from 70 to 1,400 feet in depth. Water temperature ranged from 19.0 to 29.5 °C. Specific conductance (lab) ranged from 32 to 2,340 microsiemens per centimeter at 25 °C. The pH (lab) ranged from 5.6 to 9.5. Color ranged from less than 5 to 140 platinum-cobalt units. Dissolved-solids concentrations (residue on evaporation) ranged from 22 to 1,260 milligrams per liter. Chloride concentrations ranged from 3.1 to 560 milligrams per liter. Nitrite plus nitrate as nitrogen concentrations ranged from less than 0.02 to 0.25 milligram per liter. Most of the larger values of specific conductance, color, dissolved-solids concentrations, and chloride concentrations were from wells in the southern one-half of the county. Specific conductance, dissolved-solids concentrations, and chloride concentrations generally increased with depth; however, the relations were poorly defined and showed considerable variation.

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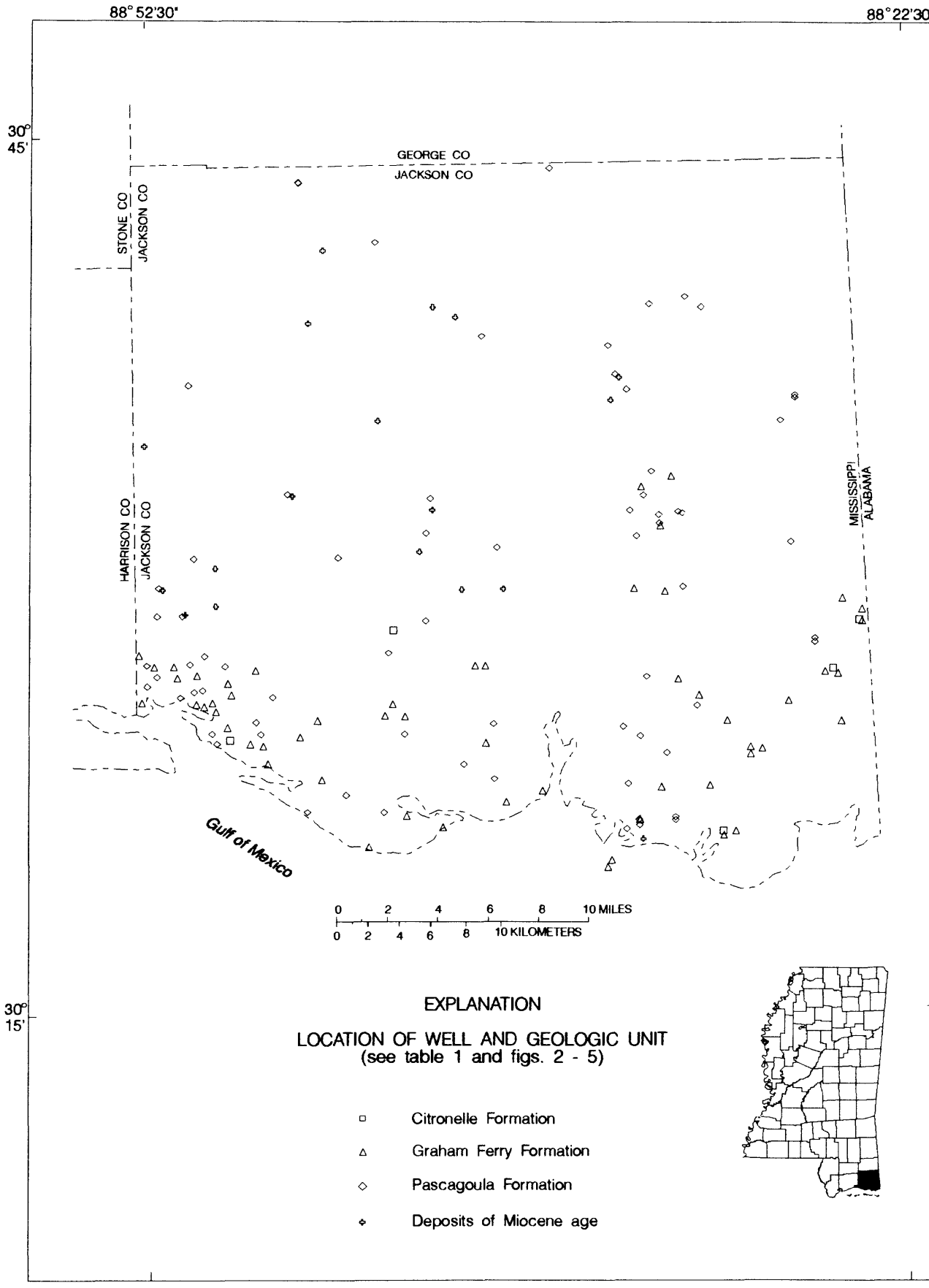

Figure 1. --Location of ground-water sites in Jackson County, Mississippi, with water-quality analyses during 1993.

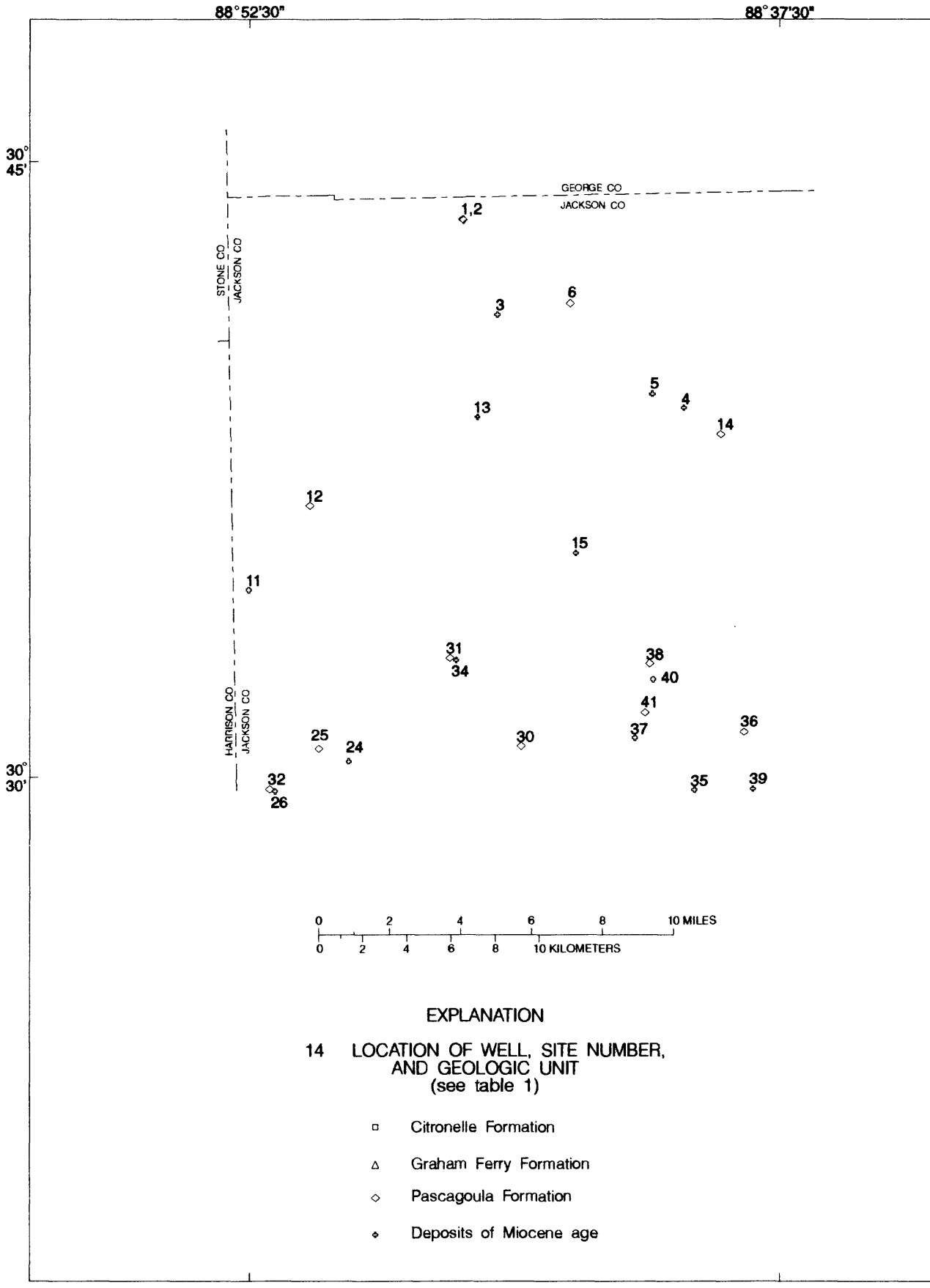

Figure 2. --Location of ground-water sites in northwestern Jackson County, Mississippi, with water-quality analyses during 1993.

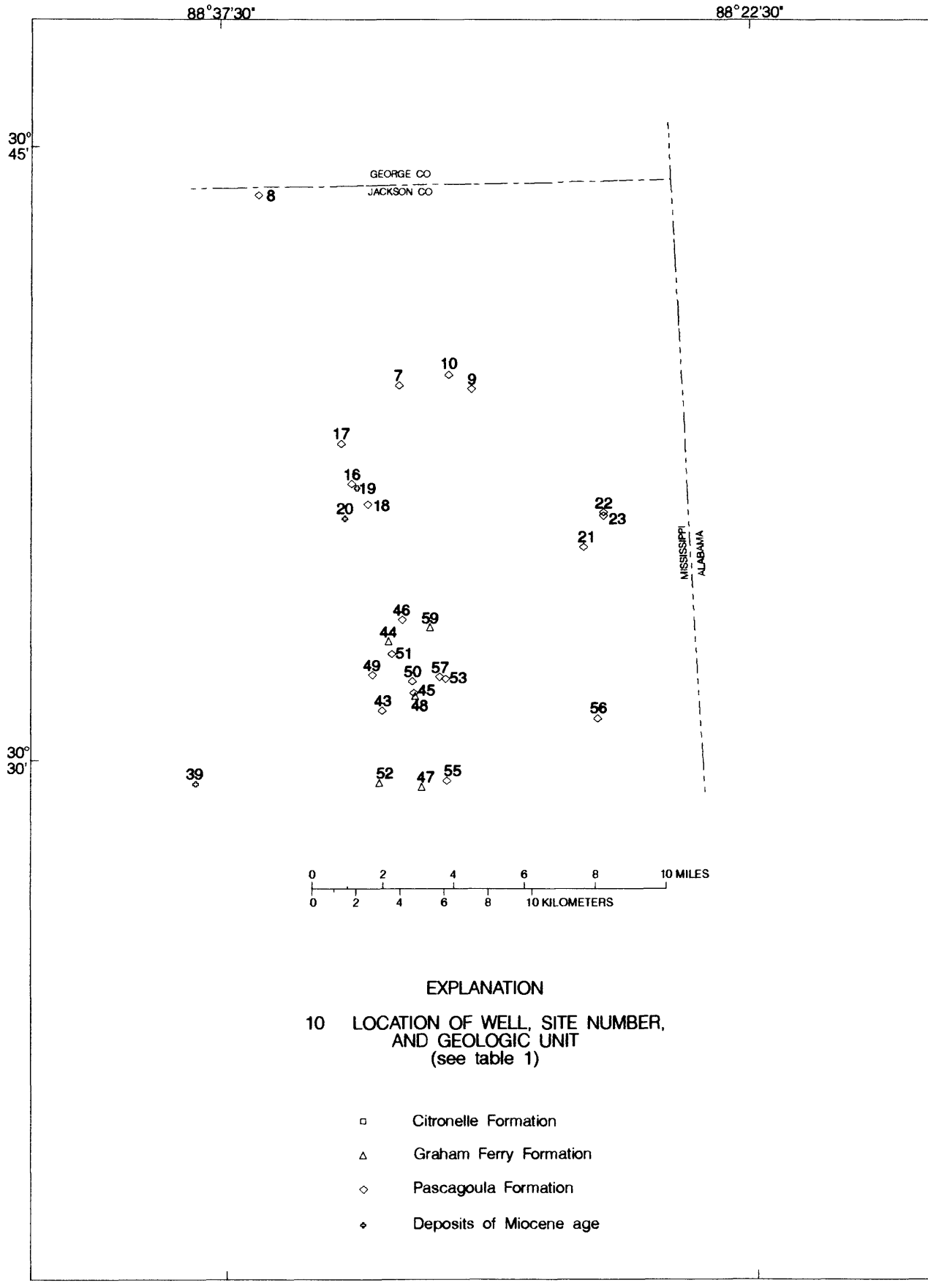

Figure 3. --Location of ground-water sites in northeastern Jackson County, Mississippi, with water-quality analyses during 1993.

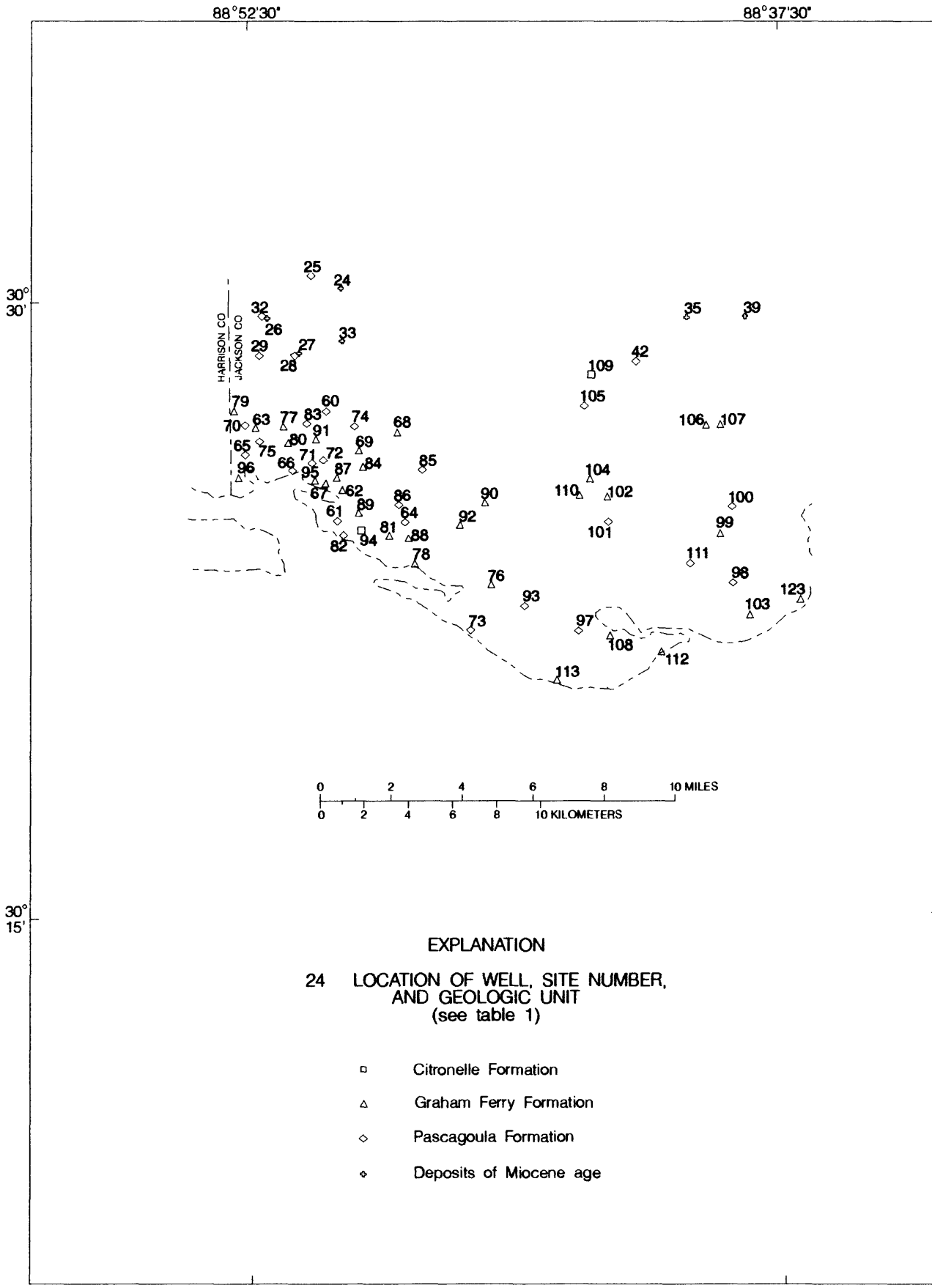

Figure 4. --Location of ground-water sites in southwestern Jackson County, Mississippi, with water-quality analyses during 1993.

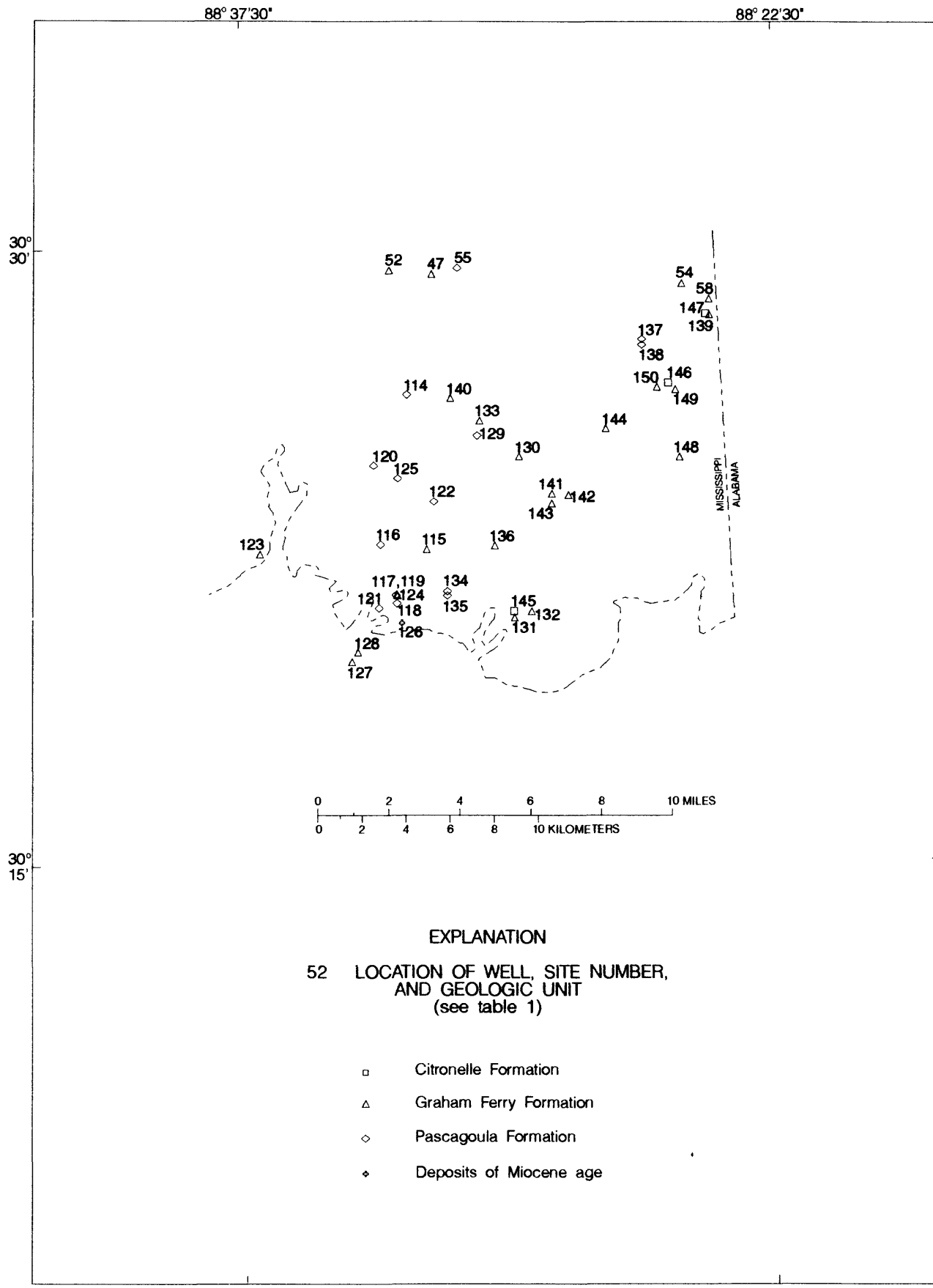

Figure 5. --Location of ground-water sites in southeastern Jackson County, Mississippi, with water-quality analyses during 1993.

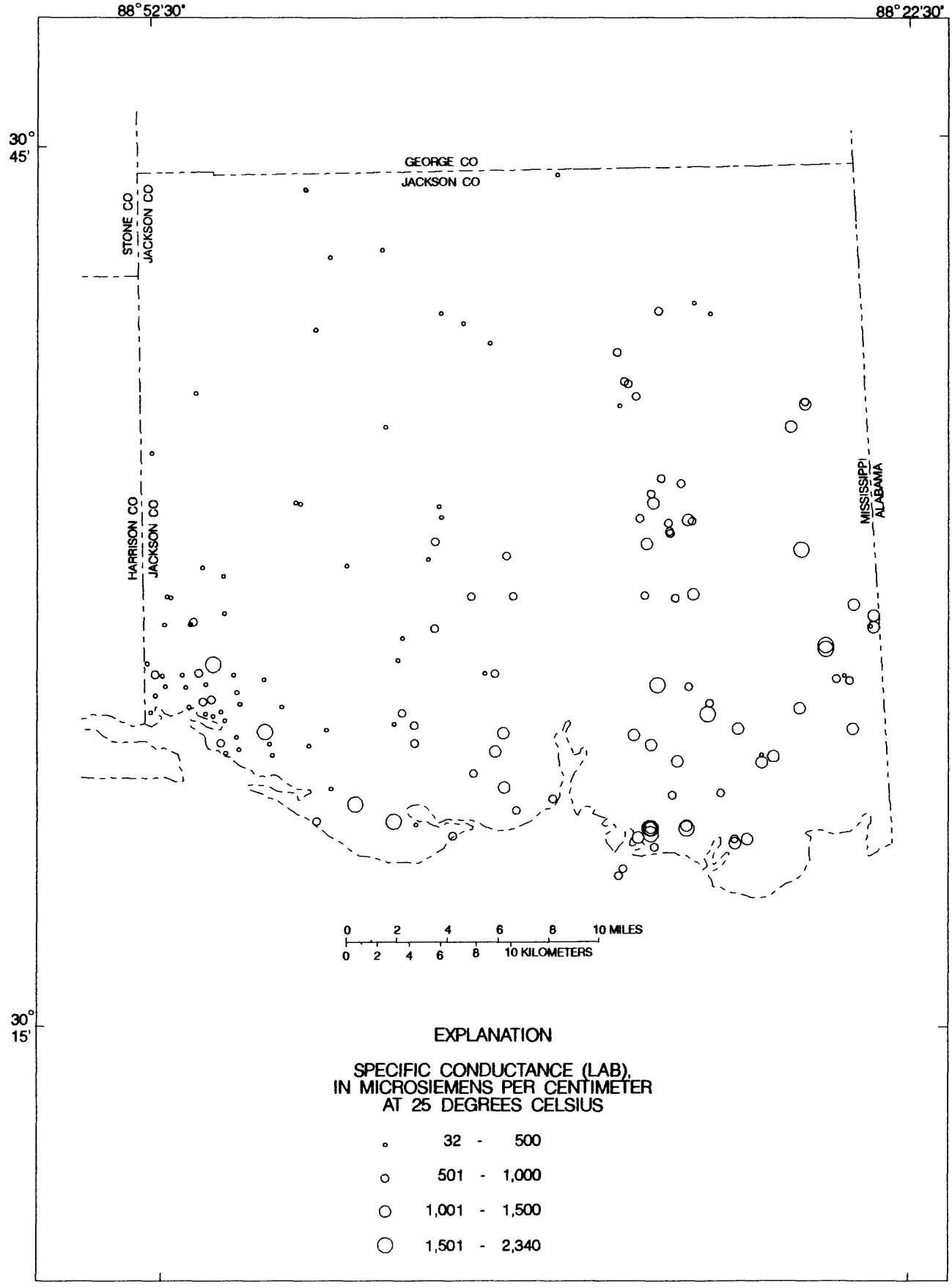

Figure 6.–Specific conductance (lab) of ground water in Jackson County, Mississippi, during 1993.

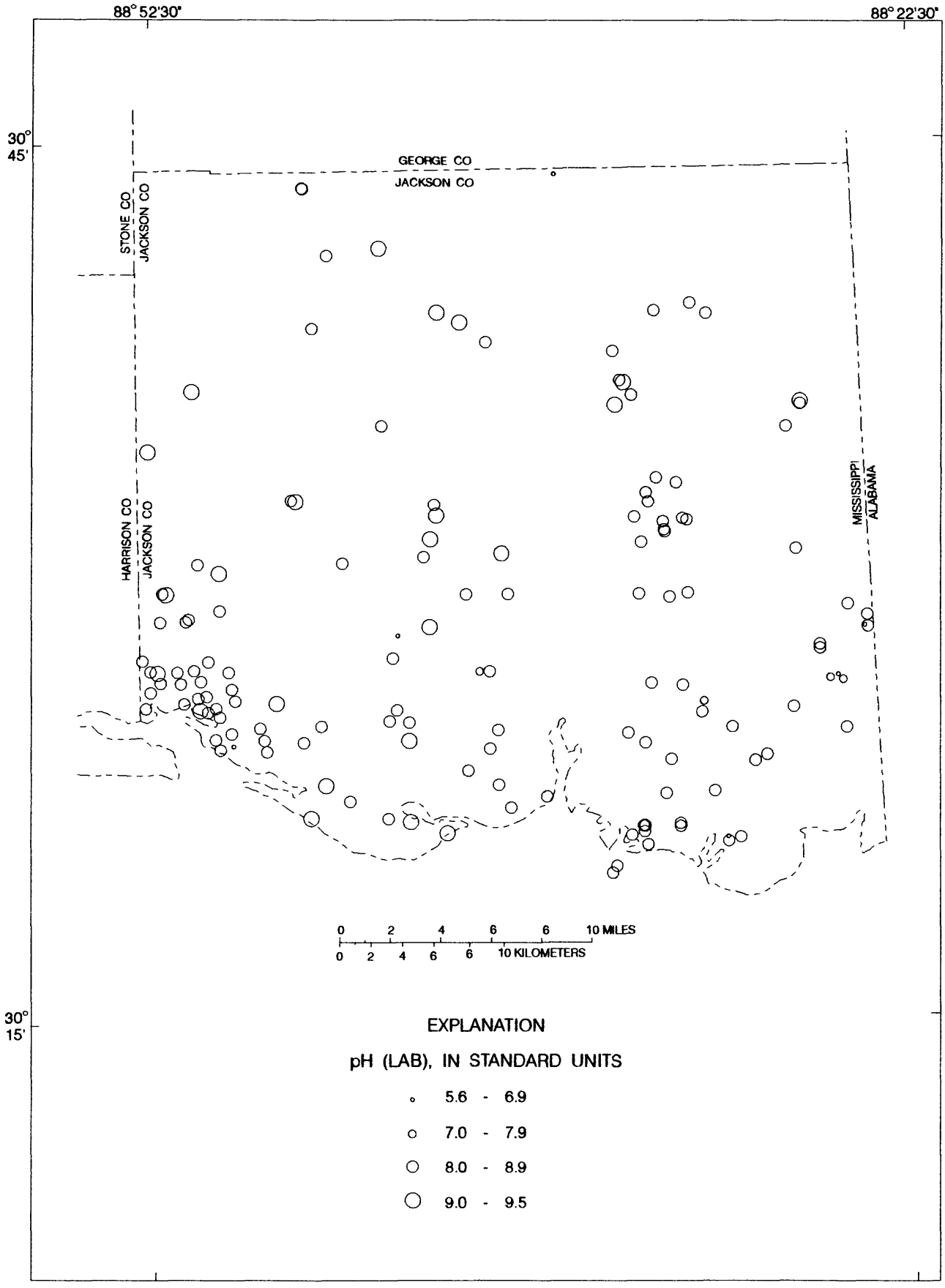

Figure 7.--pH (lab) of ground water in Jackson County, Mississippi, during 1993.

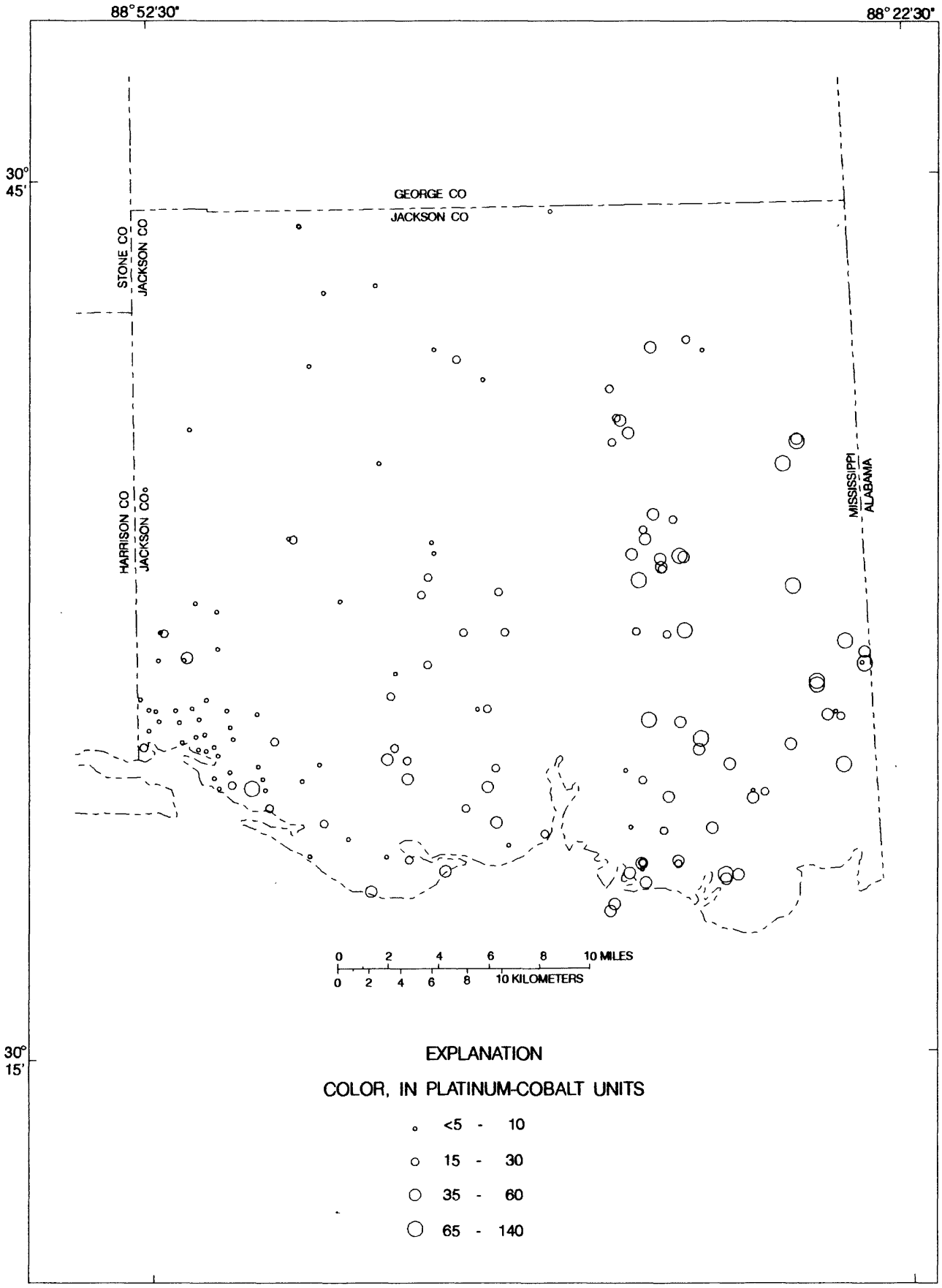

Figure 8.--Color of ground water in Jackson County, Mississippi, during 1993.

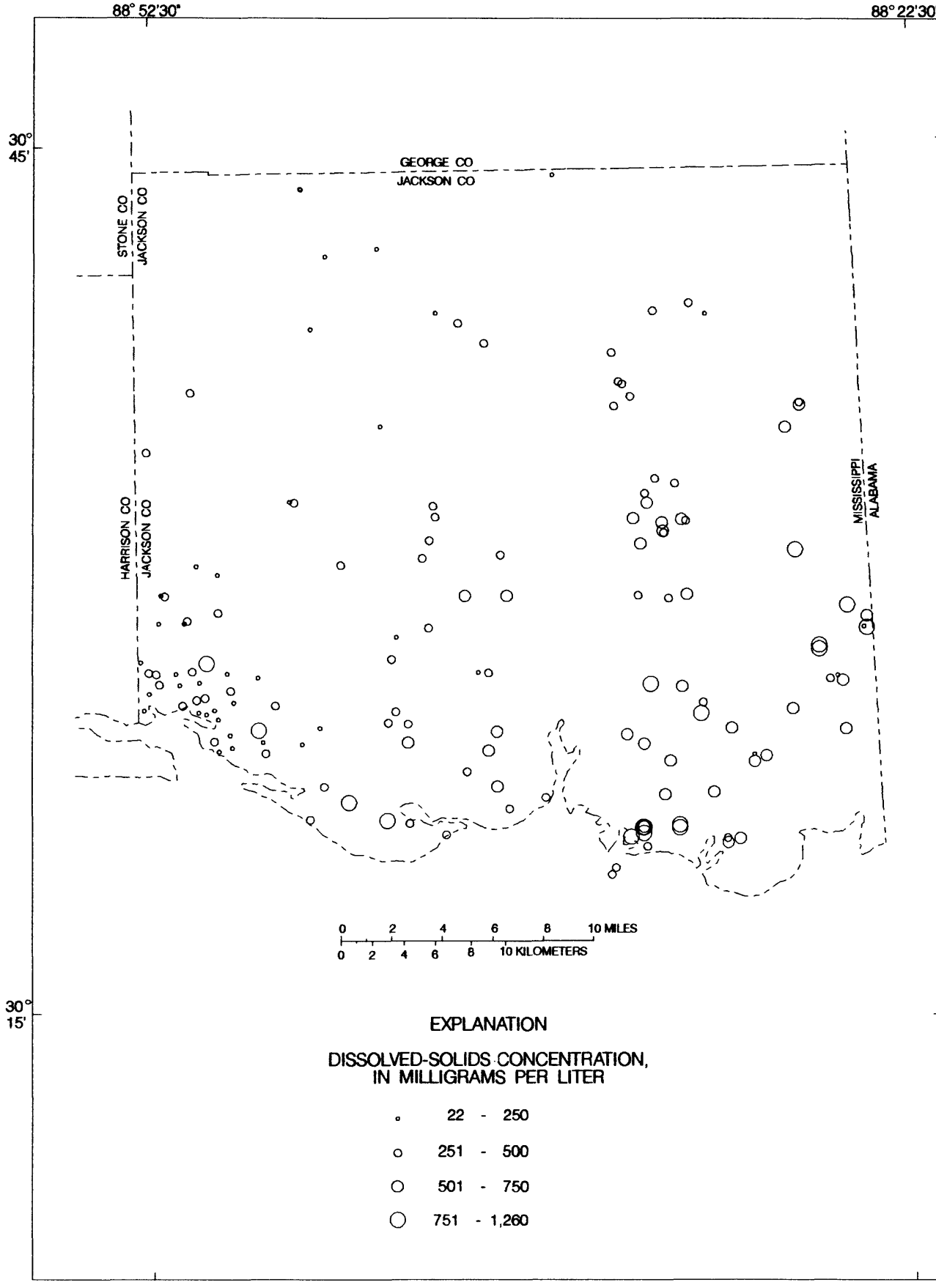

Figure 9.--Dissolved-solids concentration in ground water in Jackson County, Mississippi, during 1993.

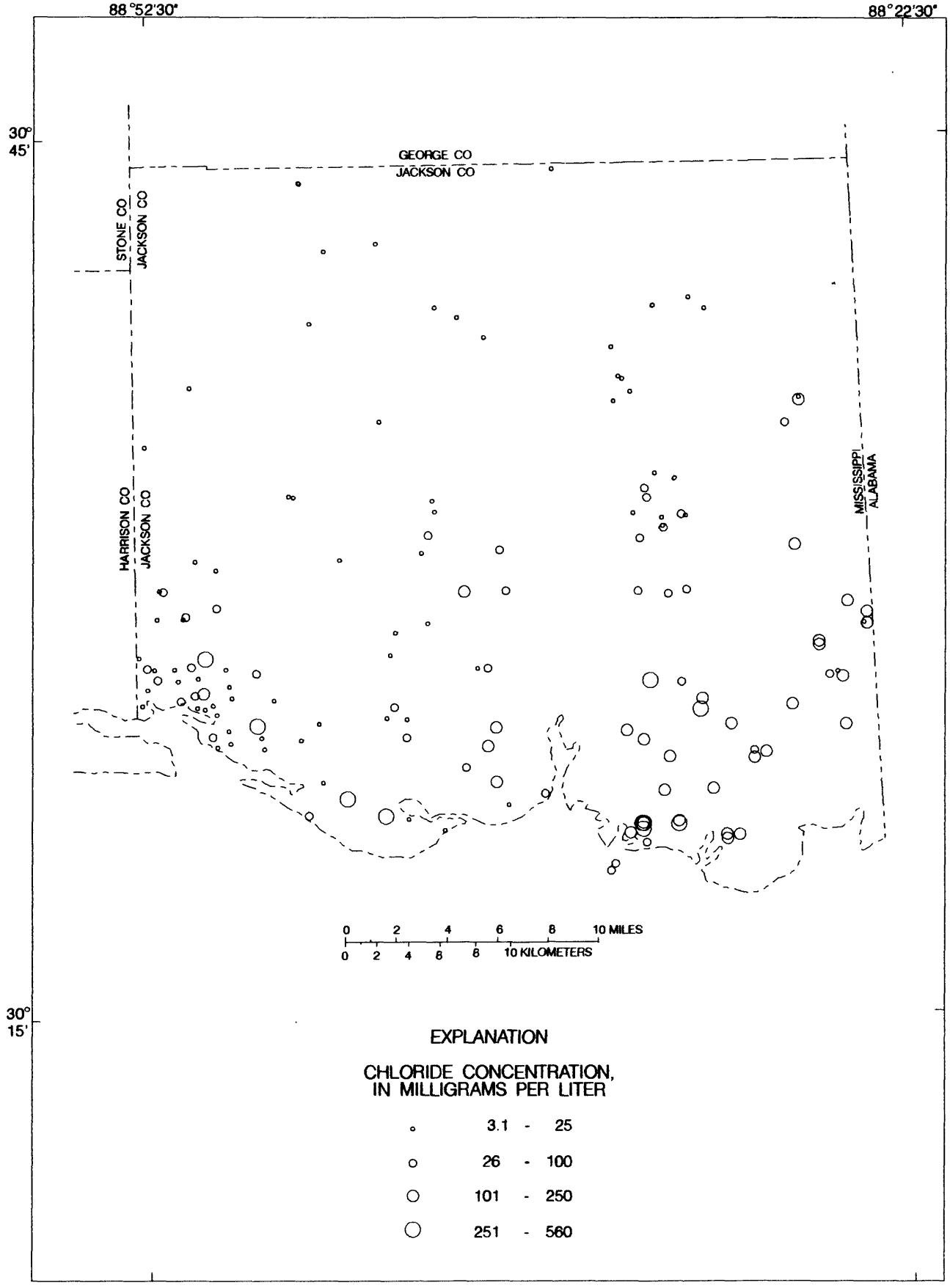

Figure 10.--Chloride concentration in ground water in Jackson County, Mississippi, during 1993.

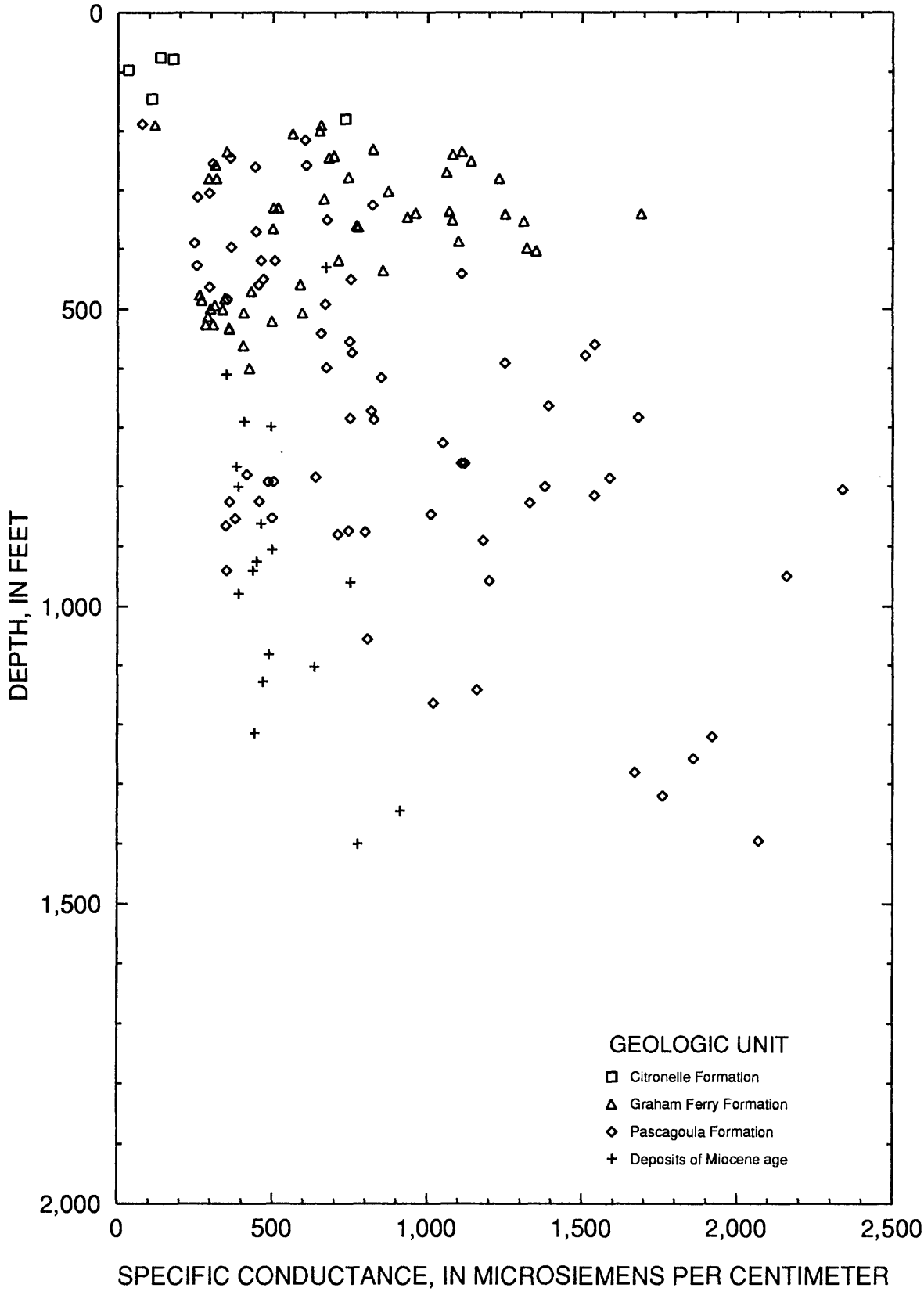

Figure 11.--Relation of depth and specific conductance of ground water in Jackson County, Mississippi.

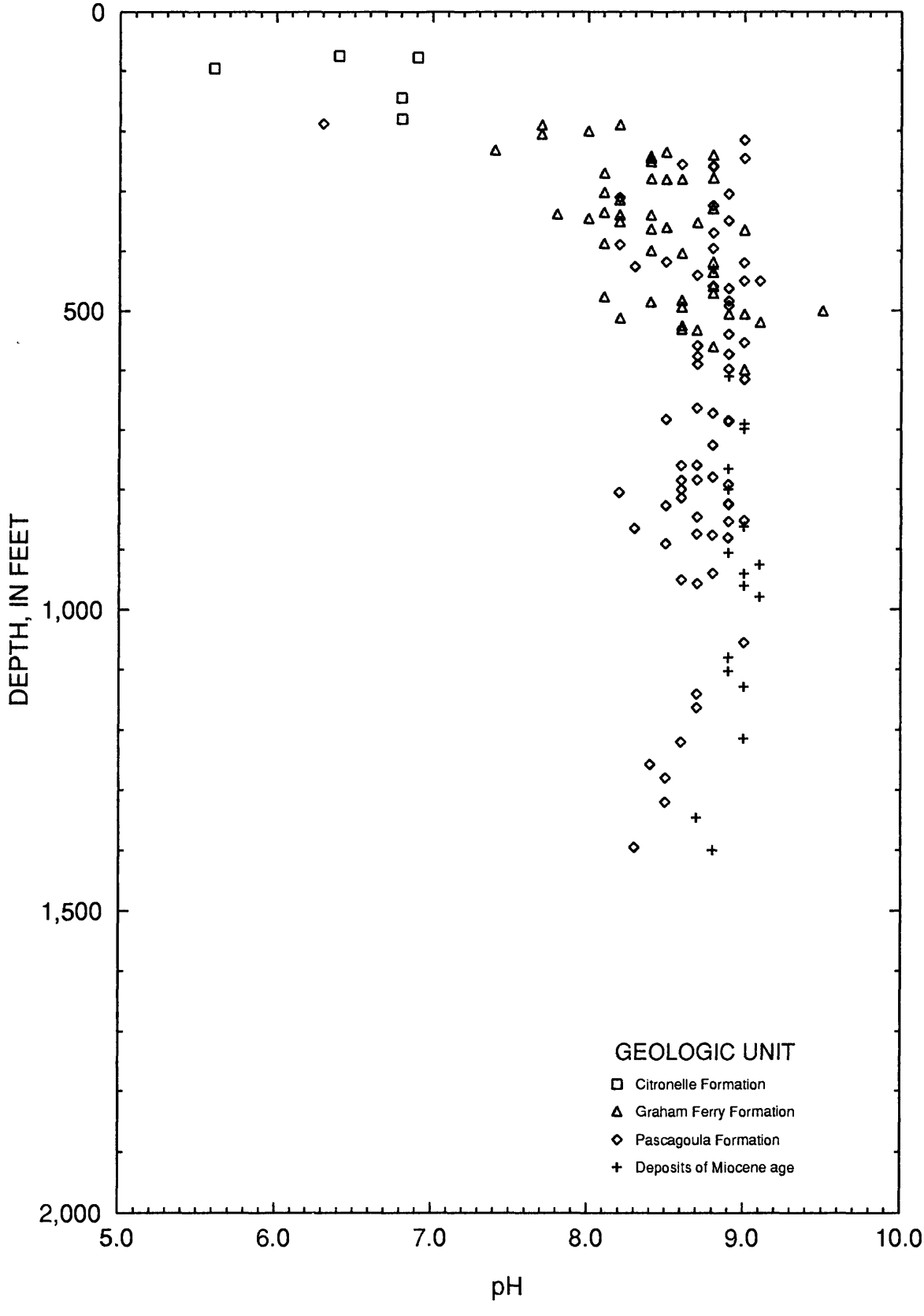

Figure 12.--Relation of depth and pH of ground water in Jackson County, Mississippi.

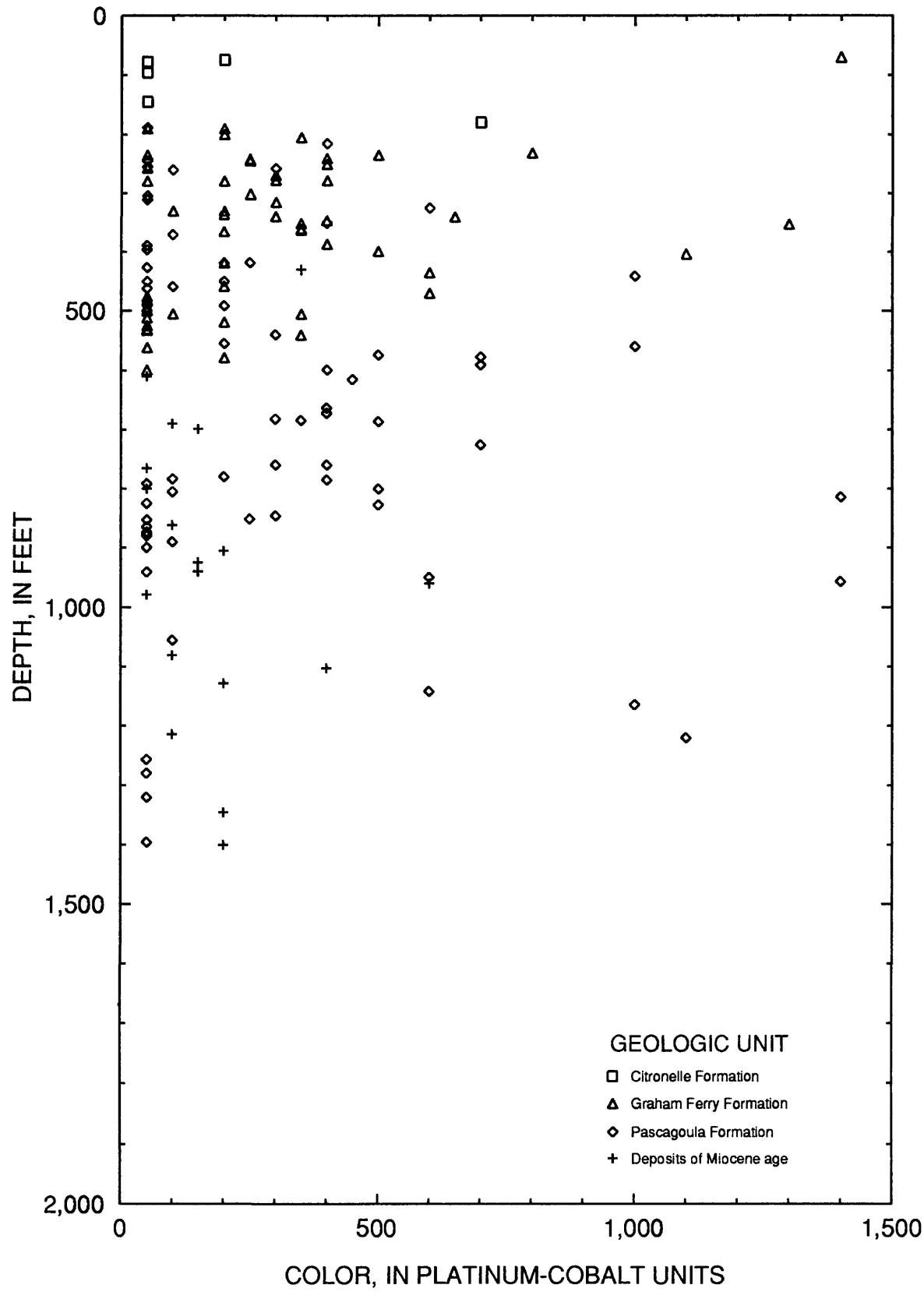

Figure 13.--Relation of depth and color of ground water in Jackson County, Mississippi.

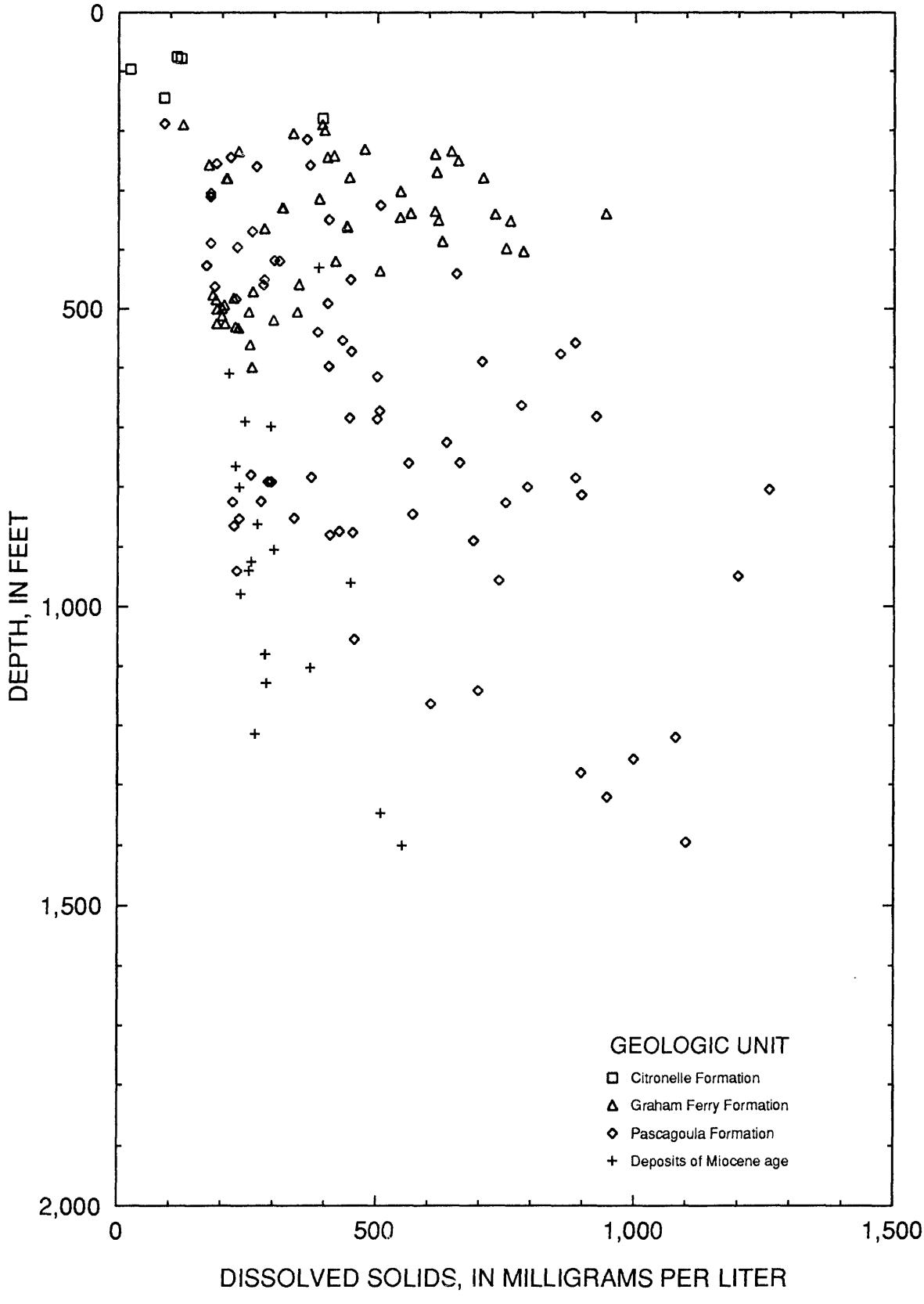

Figure 14.--Relation of depth and dissolved-solids concentration in ground water in Jackson County, Mississippi.

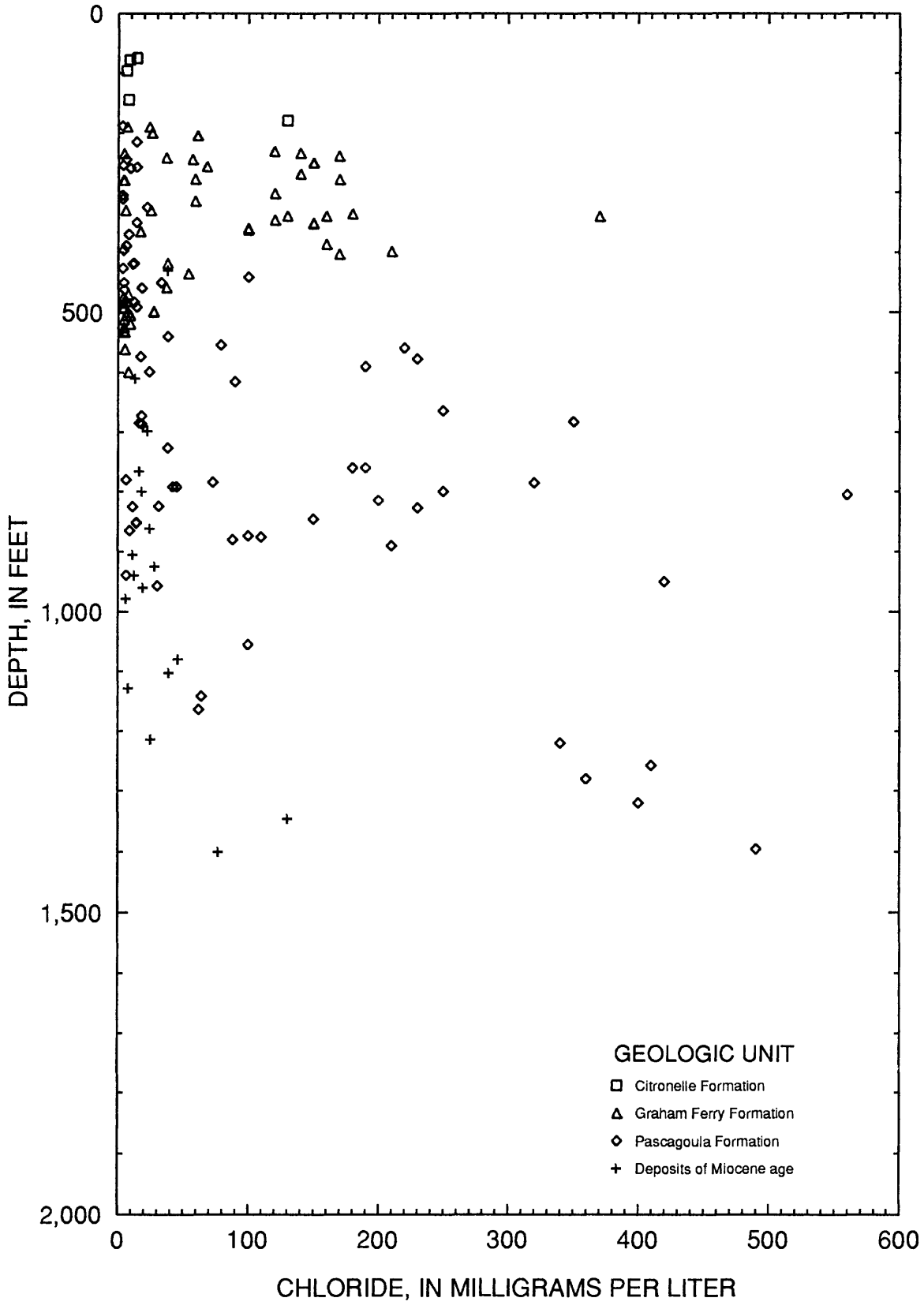

Figure 15.–Relation of depth and chloride concentration in ground water in Jackson County, Mississippi.

Table 1. Summary of site information for wells in Jackson County, Mississippi

[MDOT, Mississippi Department of Transportation; PCGL, Pascagoula Formation; MOCN, deposits of Miocene age; GRMF, Graham Ferry Formation; CRNL, Citronelle Formation; --, no data]

Site number	Local number and owner or operator		Station number	Depth of well (feet)	Top of open interval (feet)	Geologic unit code (feet)
1	A036	Gary R Parker	304330088463001	462	457	PCGL
2	A037	Jimmy R Havens	304343088463401	305	300	PCGL
3	A038	Edgar Talbot	304106088453401	610	600	MOCN
4	B003	A R Fletcher	303850088401401	1,128	1,113	MOCN
5	B020	L W Snow	303910088410001	690	680	MOCN
6	B028	Arthur Davis	304126088432401	245	235	PCGL
7	C015	W S Lowery	303912088322201	573	513	PCGL
8	C037	Philip May	304323088360601	188	28	PCGL
9	D045	G Webb	303910088301501	389	384	PCGL
10	D052	Jackson County	303930088301501	418	376	PCGL
11	E021	Francis Brander	303434088523501	1,214	1,174	MOCN
12	E053	M R Dearman	303712088503801	450	440	PCGL
13	E054	Eddie Wilson	303858088460701	766	756	MOCN
14	F001	International Paper Company	303811088391601	459	439	PCGL
15	F097	Ronnie Cox	303522088432101	800	780	MOCN
16	G011	Caswell Methodist Church	303649088335501	258	238	PCGL
17	G040	Oscar Smith	303743088341001	491	486	PCGL
18	G109	Barry Cumbest	303618088332801	350	340	PCGL
19	G114	Vince Lovely	303650088334701	960	940	MOCN
20	G119	Dwayne Scott	303609088342401	698	683	MOCN
21	H046	Albert Greenough	303457088273001	440	430	PCGL
22	H051	J W Bell	303610088264401	215	215	PCGL
23	H053	Jerry Shumock	303556088264801	590	580	PCGL
24	J020	Naif Jordan	303043088492001	979	939	MOCN
25	J021	Jack Maples	303041088503901	396	380	PCGL
26	J032	George Crutherds	302940088515501	925	905	MOCN
27	J038	J R Conway	302859088510701	1,102	--	MOCN
28	J039	L R Fox	302841088510501	426	416	PCGL
29	J080	Bill Byrd	302845088522501	255	245	PCGL
30	J083	James Flurry	303215088443301	370	360	PCGL

Table 1. Summary of site information for wells in Jackson County, Mississippi--Continued

Site number	Local number and owner or operator		Station number	Depth of well (feet)	Top of open interval (feet)	Geologic unit code (feet)
31	J089	Howard Glass	303300088472601	483	473	PCGL
32	J155	Christ the King Church	302943088520801	311	301	PCGL
33	J168	Albert Waltman	302942088495701	1,080	1,060	MOCN
34	J173	C R Guidry	303248088464601	940	925	MOCN
35	K069	Clearwater Camp	302927088400001	1,346	1,326	MOCN
36	K071	George McLain	303054088385401	554	544	PCGL
37	K130	Citizens National Bank	303215088402701	905	--	MOCN
38	K147	Vancleave Junior High School	303238088411801	260	240	PCGL
39	K151	F Conn	302939088383401	1,400	--	MOCN
40	K162	Eugene Fountain	303157088410201	862	827	MOCN
41	K164	First Baptist Church	303128088412601	450	430	PCGL
42	K169	O Thornton	302800088411401	419	409	PCGL
43	L009	Lionell Smith	303114088331201	957	937	PCGL
44	L046	T E Tanner	303220088331601	278	273	GRMF
45	L082	George McDonald	303144088321201	672	662	PCGL
46	L102	Marvin Yawn	303310088322801	598	588	PCGL
47	L119	International Paper Company	302928088331301	242	227	GRMF
48	L124	J D Bullock	303137088321201	200	190	GRMF
49	L127	Mississippi Power Company	303206088332201	686	641	PCGL
50	L136	Eugene Almond	303158088321601	325	315	PCGL
51	L137	Lonnie Roberts	303000088332501	1,141	1,131	PCGL
52	L032	Escatawpa Utility District	302936088331601	245	220	GRMF
53	M009	J H Bullock	303201088312001	684	669	PCGL
54	M025	Hollis Elder	302856088250001	352	336	GRMF
55	M112	Walter Roberts	302950088310601	726	721	PCGL
56	M154	Clarence Furby	303104088270001	814	804	PCGL
57	M165	Kenneth Clarke	303202088312301	1,163	1,153	PCGL
58	M234	James I Poole	302859088240801	398	388	GRMF
59	M275	John Ledbetter	303309088331701	190	180	GRMF
60	N013	Sam Seymour	302721088501701	1,257	--	PCGL
61	N051	Ocean Springs	302441088500101	880	820	PCGL
62	N066	Coast Water Works	302527088495101	525	485	GRMF
63	N095	Coast Water Works	302659088521701	599	539	GRMF
64	N096	Coast Water Works	302438088480601	853	793	PCGL
65	N175	Coast Water Works	302630088522301	825	785	PCGL

Table 1. Summary of site information for wells in Jackson County, Mississippi--Continued

Site number	Local number and owner or operator	Station number	Depth of well (feet)	Top of open interval (feet)	Geologic unit code (feet)
66	N213 Seashore Utility Company	302555088511501	824	784	PCGL
67	N217 Coast Water Works	302600088503001	525	475	GRMF
68	N278 Coast Water Works	302539088492301	499	439	GRMF
69	N288 Coast Water Works	302624088492201	505	413	GRMF
70	N355 Coast Water Works	302702088524501	792	732	PCGL
71	N381 Coast Water Works	302610088503301	874	814	PCGL
72	N391 Coast Water Works	302610088502201	876	816	PCGL
73	N425 Gulf Park Water Association	302158088461701	1,055	1,005	PCGL
74	N451 Coast Water Works	302701088493001	865	815	PCGL
75	N461 Bay Water Works	302638088521001	792	752	PCGL
76	N462 Gulf Park Water Association	302338088453901	519	439	GRMF
77	N472 Frazier Nursery	302700088513001	235	215	GRMF
78	N479 Gulf Coast Research Lab	302338088475001	578	538	GRMF
79	N487 L W Ross	302707088525301	280	270	GRMF
80	N489 Frazier Nursery	302636088512201	484	429	GRMF
81	N492 George Havelin	302419088483201	70	60	GRMF
82	N496 Ocean Springs Seafood	302418088485801	940	910	PCGL
83	N500 Porteaux Bay	302704088505101	784	724	PCGL
84	N505 Coast Water Works	302600088491501	482	460	GRMF
85	N506 St Martin School	302600088473601	852	822	PCGL
86	N511 Tommy Moreton	302503088481602	1,280	1,240	PCGL
87	N512 Coast Water Works	302545088500001	512	472	GRMF
88	N517 Ocean Springs	302420088480001	561	485	GRMF
89	N520 Ocean Springs	302453088492401	533	473	GRMF
90	N534 Coast Water Works	302506088455101	493	453	GRMF
91	N535 Coast Water Works	302641088503501	476	431	GRMF
92	N543 Ocean Springs	302433088463301	531	470	GRMF
93	N544 Sea Ranch	302225088444501	1,320	1,260	PCGL
94	N557 S H Dees III	302427088491901	75	65	CRNL
95	N558 John Compton	302541088503701	500	480	GRMF
96	N559 Peristeras	302546088524601	280	260	GRMF
97	O074 James Grimsley	302155088431501	1,395	1,375	PCGL
98	O156 Gautier	302251088385401	760	720	PCGL
99	O200 Pentecostal Church	302416088391301	240	235	GRMF
100	O208 Gautier	302452088384901	760	710	PCGL

Table 1. Summary of site information for wells in Jackson County, Mississippi--Continued

Site number	Local number and owner or operator		Station number	Depth of well (feet)	Top of open interval (feet)	Geologic unit code (feet)
101	O234	WOSM Radio Station	302430088424501	615	605	PCGL
102	O271	W R Wiggins	302512088422301	330	320	GRMF
103	O273	W W Richardson	302215088382501	330	320	GRMF
104	O277	MDOT	302548088425201	458	438	GRMF
105	O284	Coca Cola	302718088430201	780	750	PCGL
106	O287	National Wildlife Refuge	302654088392601	190	160	GRMF
107	O288	Mallether Construction	302655088391101	315	305	GRMF
108	O297	Ocean Beach Utilities	302148088422201	365	345	GRMF
109	O304	Oak Grove Baptist Church	302810088424801	96	86	CRNL
110	O310	Sunplex Industrial Park	302509088432001	470	420	GRMF
111	O313	Gautier	302331088395601	540	484	PCGL
112	O318	B E Weindel	302124088404401	505	495	GRMF
113	O321	Fairley	332039088435201	540	530	GRMF
114	P021	E B Sherman	302627088324801	1,220	--	PCGL
115	P069	Pascagoula	302241088321701	302	222	GRMF
116	P073	M M Flechas	302248088333501	900	--	PCGL
117	P122	Pascagoula	302134088330801	340	--	GRMF
118	P145	Ingalls	302120088330001	805	728	PCGL
119	P150	Pascagoula	302115088330404	785	725	PCGL
120	P229	Moss Point	302445088334501	890	840	PCGL
121	P348	Ingalls	302057088333901	800	740	PCGL
122	P355	Moss Point	302323088321801	827	767	PCGL
123	P367	James McGarth	302225088364501	418	408	GRMF
124	P372	Pascagoula	302137088334501	336	236	GRMF
125	P382	Moss Point	302428088325101	846	766	PCGL
126	P388	Singing River	302037088330101	430	410	MOCN
127	P429	US Navy Homeport	302018088342301	360	300	GRMF
128	P430	US Navy Homeport	302007088342801	362	302	GRMF
129	Q019	Zapata	302524088305501	950	904	PCGL
130	Q029	International Paper Company	302455088293801	251	216	GRMF
131	Q111	Nu-south Industries	302100088295501	351	301	GRMF
132	Q137	Chevron	302104088292701	387	312	GRMF
133	Q159	Thiokol Corp	302548088304501	231	191	GRMF
134	Q180	Pascagoula	302130088312901	663	614	PCGL
135	Q181	Pascagoula	302128088313101	682	632	PCGL

Table 1. Summary of site information for wells in Jackson County, Mississippi--Continued

Site number	Local number	and owner or operator	Station number	Depth of well (feet)	Top of open interval (feet)	Geologic unit code (feet)
136	Q420	Pascagoula	302247088302901	346	266	GRMF
137	Q429	MDOT	302802088251801	559	510	PCGL
138	Q430	MDOT	302736088260601	577	547	PCGL
139	Q431	MDOT	302820088242501	403	373	GRMF
140	Q434	Moss Point	302627088313701	435	400	GRMF
141	Q441	Richard Martin	302400088274401	257	247	GRMF
142	Q444	Hugh L Stork	302357088281601	270	260	GRMF
143	Q445	Jackson County	302345088284401	279	269	GRMF
144	Q447	Orange Recreation Park	302541088270401	235	225	GRMF
145	Q448	First Chemical	302109088295101	180	150	CRNL
146	Q462	Mike Porter	302639088252501	78	68	CRNL
147	Q463	Glenn Hamilton	302819088242101	145	135	CRNL
148	Q464	Jimmy Stork	302451088250701	340	330	GRMF
149	Q465	Norman Saska	302629088251301	339	329	GRMF
150	Q466	Gary Branham	302633088254401	205	195	GRMF

Table 2. Water-quality data collected from wells in Jackson County, Mississippi, during 1993

[C.A. collecting agency; °C, degrees Celsius; µS/cm, microsiemens per centimeter at 25 °C; ROE, residue on evaporation at 180 °C; mg/L, milligrams per liter; N, as nitrogen; USGS, U.S. Geological Survey; OLWR, Office of Land and Water Resources; <, less than; --, no data]

Site number	Local number	Date	C.A.	Temperature (°C)	Specific conductance (µS/cm) field	Specific conductance (µS/cm) lab	pH field	pH lab	Color (platinum-cobalt units)	ROE (mg/L)	Chloride (mg/L)	Nitrite plus nitrate-N (mg/L)
1	A036	03-22	USGS	21.5	289	296	7.8	8.9	<5	186	4.6	<0.02
2	A037	03-22	USGS	22.5	289	295	8.9	8.9	<5	178	3.2	<.02
3	A038	03-22	USGS	23.0	345	351	9.0	8.9	<5	214	13	<.02
4	B003	03-23	USGS	23.5	453	468	9.0	9.0	20	287	7.6	.12
5	B020	03-23	USGS	23.5	392	407	9.0	9.0	10	245	19	.05
6	B028	03-23	USGS	22.5	353	362	9.0	9.0	<5	216	6.2	<.02
7	C015	03-24	USGS	23.5	740	755	--	8.9	50	451	17	<.02
8	C037	03-24	USGS	21.0	81	77	--	6.3	<5	88	3.1	<.02
9	D045	03-24	USGS	22.5	228	246	--	8.2	<5	178	6.1	<.02
10	D052	03-24	USGS	23.0	454	461	--	8.5	25	301	12	<.02
11	E021	03-23	USGS	24.0	435	442	9.0	9.0	10	265	25	<.02
12	E053	03-22	USGS	22.5	461	469	9.2	9.1	<5	282	4.3	<.02
13	E054	03-22	USGS	23.0	373	383	9.0	8.9	<5	227	16	<.02
14	F001	03-23	USGS	22.0	442	454	8.9	8.8	10	280	18	<.02
15	F097	03-23	USGS	24.5	380	389	8.9	8.9	5	234	18	<.02
16	G011	03-25	USGS	22.0	600	607	--	8.8	30	370	14	<.02
17	G040	03-25	USGS	23.0	--	669	--	8.9	20	405	14	<.02
18	G109	03-25	USGS	22.0	640	675	--	8.9	40	407	14	<.02
19	G114	03-25	USGS	27.0	735	752	--	9.0	60	450	19	<.02
20	G119	03-25	USGS	23.5	475	493	--	9.0	15	295	22	<.02
21	H046	03-24	USGS	23.0	1,090	1,110	--	8.7	100	654	100	<.02
22	H051	03-24	USGS	21.5	585	604	--	9.0	40	364	14	<.02
23	H053	03-24	USGS	24.5	1,220	1,250	--	8.7	70	704	190	<.02
24	J020	04-01	USGS	23.0	383	391	9.0	9.1	<5	237	6.1	<.02
25	J021	04-01	USGS	23.0	362	365	9.0	8.8	<5	229	4.1	.02
26	J032	04-01	USGS	24.0	440	448	9.1	9.1	15	258	28	<.02
27	J038	04-01	USGS	24.5	627	635	9.0	8.9	40	372	39	<.02
28	J039	04-01	USGS	--	--	255	8.4	8.3	<5	170	3.4	<.02
29	J080	04-01	USGS	22.0	302	305	8.8	8.6	<5	189	3.5	.10
30	J083	04-01	USGS	22.5	440	446	8.9	8.8	10	258	8.0	<.02

Table 2. Water-quality data collected from wells in Jackson County, Mississippi, during 1993--Continued

Site number	Local number	Date	C.A.	Temperature (°C)	Specific conductance (µS/cm) field	Specific conductance (µS/cm) lab	pH field	pH lab	Color (platinum-cobalt units)	ROE (mg/L)	Chloride (mg/L)	Nitrite plus nitrate-N (mg/L)
31	J089	04-01	USGS	23.0	345	353	9.0	8.9	5	227	12	<0.02
32	J155	04-01	USGS	23.0	253	256	8.3	8.2	<5	178	3.3	<.02
33	J168	04-01	USGS	29.0	486	488	9.0	8.9	10	285	46	<.02
34	J173	04-01	USGS	26.0	433	438	8.8	9.0	15	253	12	<.02
35	K069	03-29	USGS	27.5	860	913	8.6	8.7	20	508	130	<.02
36	K071	03-29	USGS	23.0	733	748	9.1	9.0	20	434	79	<.02
37	K130	03-29	USGS	23.0	493	499	8.9	8.9	20	302	11	<.02
38	K147	03-29	USGS	23.0	438	442	8.9	8.8	10	266	9.2	<.02
39	K151	03-29	USGS	27.5	767	776	8.8	8.8	20	550	77	<.02
40	K162	03-29	USGS	25.5	447	461	8.9	9.0	10	269	24	<.02
41	K164	03-29	USGS	22.5	680	751	8.9	9.0	20	449	33	.05
42	K169	03-30	USGS	22.5	492	506	8.5	9.0	20	311	11	<.02
43	L009	03-25	USGS	27.0	1,180	1,200	--	8.7	140	737	30	<.02
44	L046	03-31	USGS	22.0	--	743	9.0	8.8	30	447	59	<.02
45	L082	03-31	USGS	24.0	806	818	9.0	8.8	40	506	18	<.02
46	L102	03-31	USGS	23.0	640	673	9.0	8.9	40	408	24	<.02
47	L119	03-31	USGS	22.5	--	696	8.5	8.4	25	417	37	<.02
48	L124	03-31	USGS	22.5	645	651	7.6	8.0	20	399	26	<.02
49	L127	03-25	USGS	26.5	820	825	--	8.9	50	501	18	<.02
50	L136	03-31	USGS	22.5	808	821	8.9	8.8	60	507	22	<.02
51	L137	03-25	USGS	23.5	1,130	1,160	--	8.7	60	697	64	<.02
52	L032	03-31	USGS	22.5	610	680	8.7	8.4	25	404	57	<.02
53	M009	03-31	USGS	23.5	733	748	9.0	8.9	35	448	16	<.02
54	M025	03-31	USGS	24.0	1,220	1,310	8.6	8.7	130	758	150	<.02
55	M112	03-31	USGS	26.5	1,030	1,050	8.8	8.8	70	635	38	<.02
56	M154	03-31	USGS	26.0	1,510	1,540	8.6	8.6	140	897	200	<.02
57	M165	03-31	USGS	21.0	1,000	1,020	8.8	8.7	100	606	62	<.02
58	M234	03-31	USGS	21.0	1,300	1,320	8.3	8.4	50	750	210	<.02
59	M275	03-31	USGS	22.0	--	655	8.2	8.2	20	394	24	<.02
60	N013	03-17	OLWR	--	1,810	1,860	8.5	8.4	<5	998	410	<.02
61	N051	03-17	OLWR	27.5	764	710	8.9	8.9	<5	410	88	<.02
62	N066	03-18	OLWR	25.0	302	307	8.8	8.6	<5	206	4.3	<.02
63	N095	03-18	OLWR	26.5	418	424	9.2	9.0	5	258	7.9	<.02
64	N096	03-18	OLWR	28.0	375	379	9.0	8.9	<5	234	14	<.02
65	N175	03-18	OLWR	28.0	358	360	8.9	8.9	<5	222	11	<.02

Table 2. Water-quality data collected from wells in Jackson County, Mississippi, during 1993--Continued

Site number	Local number	Date	C.A.	Temperature (°C)	Specific conductance (µS/cm) field	Specific conductance (µS/cm) lab	pH field	pH lab	Color (platinum-cobalt units)	ROE (mg/L)	Chloride (mg/L)	Nitrite plus nitrate-N (mg/L)
66	N213	03-17	OLWR	27.0	452	456	9.0	8.9	<5	276	31	<0.02
67	N217	03-18	OLWR	24.0	279	283	8.7	8.6	<5	190	4.3	<.02
68	N278	03-18	OLWR	24.0	277	299	7.0	7.0	<5	200	27	.06
69	N288	03-18	OLWR	24.0	399	407	9.0	8.9	10	252	5.8	.05
70	N355	03-18	OLWR	28.0	498	503	9.0	8.9	<5	296	45	<.02
71	N381	03-18	OLWR	27.0	740	745	9.0	8.7	5	428	100	<.02
72	N391	03-18	OLWR	24.5	752	798	8.9	8.8	<5	454	110	<.02
73	N425	03-17	OLWR	27.5	789	806	9.1	9.0	10	458	100	<.02
74	N451	03-18	OLWR	20.5	333	349	8.4	8.3	<5	224	8.7	<.02
75	N461	03-18	OLWR	27.0	473	485	9.0	8.9	<5	290	42	<.02
76	N462	03-17	OLWR	24.0	491	497	9.3	9.1	20	300	9.1	<.02
77	N472	05-04	OLWR	--	329	351	9.1	8.5	5	232	4.6	.05
78	N479	06-02	OLWR	26.5	532	545	9.0	9.0	20	331	12	.02
79	N487	05-04	OLWR	--	293	317	8.8	8.5	5	208	3.9	.11
80	N489	05-04	OLWR	--	250	270	8.8	8.4	5	188	3.9	<.02
81	N492	06-02	OLWR	23.5	--	124	6.2	6.3	140	105	11	<.02
82	N496	04-02	USGS	24.0	348	352	8.9	8.8	<5	230	6.2	<.02
83	N500	03-17	OLWR	27.0	636	639	8.9	8.7	10	374	73	<.02
84	N505	03-18	OLWR	24.5	337	345	8.8	8.6	<5	222	6.0	<.02
85	N506	04-02	USGS	27.0	499	497	9.0	9.0	25	340	14	<.02
86	N511	03-29	USGS	23.0	1,640	1,670	8.0	8.5	<5	897	360	<.02
87	N512	03-18	OLWR	24.5	284	291	8.4	8.2	<5	200	4.3	<.02
88	N517	03-17	OLWR	24.5	--	404	9.0	8.8	5	254	5.1	<.02
89	N520	03-17	OLWR	24.5	--	359	9.0	8.7	<5	232	5.0	<.02
90	N534	03-18	OLWR	24.0	--	313	8.7	8.6	<5	204	3.6	<.02
91	N535	03-18	OLWR	24.5	258	264	8.2	8.1	<5	182	3.4	<.02
92	N543	03-17	OLWR	23.5	--	359	8.7	8.6	<5	226	4.6	<.02
93	N544	03-22	USGS	29.5	1,730	1,760	8.4	8.5	<5	947	400	<.02
94	N557	05-04	OLWR	--	133	137	6.6	6.4	20	112	14	<.02
95	N558	05-04	OLWR	--	333	338	10.3	9.5	5	190	7.4	.02
96	N559	05-04	OLWR	--	287	292	8.9	8.6	20	210	4.5	.03
97	O074	03-17	OLWR	29.5	2,050	2,070	8.4	8.3	<5	1,100	490	<.02
98	O156	03-29	USGS	26.0	1,100	1,120	8.6	8.7	40	661	180	<.02
99	O200	03-30	USGS	28.0	1,070	1,080	8.6	8.8	40	612	170	<.02
100	O208	03-29	USGS	26.0	1,100	1,110	8.6	8.6	30	562	190	<.02

Table 2. Water-quality data collected from wells in Jackson County, Mississippi, during 1993--Continued

Site number	Local number	Date	C.A.	Temperature (°C)	Specific conductance (µS/cm) field	Specific conductance (µS/cm) lab	pH field	pH lab	Color (platinum-cobalt units)	ROE (mg/L)	Chloride (mg/L)	Nitrite plus nitrate-N (mg/L)
101	O234	03-30	USGS	21.5	834	850	8.5	9.0	45	501	90	<0.02
102	O271	05-03	OLWR	--	481	502	9.4	8.8	20	316	5.5	<.02
103	O273	05-03	OLWR	--	489	517	9.5	8.8	10	318	25	<.02
104	O277	03-30	USGS	23.5	570	589	8.7	8.8	20	349	37	<.02
105	O284	03-30	USGS	23.0	419	416	8.7	8.8	20	257	5.9	<.02
106	O287	03-30	USGS	22.0	120	118	6.6	7.7	5	124	6.9	<.02
107	O288	04-20	OLWR	--	652	665	8.4	8.2	30	388	59	.09
108	O297	04-20	OLWR	--	493	500	9.2	9.0	20	282	17	<.02
109	O304	04-20	OLWR	--	35	32	6.0	5.6	5	22	6.3	.09
110	O310	03-30	USGS	19.0	423	430	8.5	8.8	60	260	7.4	.25
111	O313	03-29	USGS	24.5	651	655	8.9	8.9	30	386	38	<.02
112	O318	04-20	OLWR	--	588	596	9.2	9.0	35	346	9.1	<.02
113	O321	06-03	OLWR	26.0	509	524	9.8	9.0	35	332	21	<.02
114	P021	03-17	OLWR	25.5	1,880	1,920	8.5	8.6	110	1,080	340	<.02
115	P069	03-25	USGS	23.0	850	872	--	8.1	25	545	120	<.02
116	P073	06-02	OLWR	23.5	177	182	7.6	7.6	<5	106	9.0	.02
117	P124	03-25	USGS	25.0	1,630	1,690	--	8.2	15	943	370	<.02
118	P145	03-30	USGS	27.0	2,290	2,340	8.4	8.2	10	1260	560	<.02
119	P150	03-25	USGS	26.0	1,550	1,590	--	8.6	40	885	320	<.02
120	P229	03-31	USGS	26.5	1,170	1,180	8.6	8.5	10	688	210	<.02
121	P348	03-31	USGS	27.5	1,360	1,380	8.5	8.6	50	792	250	<.02
122	P355	03-31	USGS	26.5	1,320	1,330	8.6	8.5	50	750	230	<.02
123	P367	04-19	OLWR	--	703	711	9.1	8.8	20	420	38	<.02
124	P372	03-25	USGS	23.0	1,040	1,070	--	8.1	20	612	180	<.02
125	P382	03-31	USGS	26.5	1,000	1,010	8.7	8.7	30	570	150	<.02
126	P388	04-20	OLWR	--	664	672	9.1	8.8	35	388	38	<.02
127	P429	03-30	USGS	24.0	763	770	8.2	8.5	35	442	100	<.02
128	P430	03-30	USGS	24.0	765	775	8.0	8.4	35	443	100	<.02
129	Q019	03-24	USGS	27.0	2,130	2,160	--	8.6	60	1,200	420	<.02
130	Q029	03-23	USGS	22.0	1,140	1,140	8.3	8.4	40	657	150	<.02
131	Q111	03-23	USGS	23.5	1,080	1,080	8.1	8.2	35	619	150	<.02
132	Q137	03-23	USGS	23.5	1,090	1,100	7.9	8.1	40	626	160	<.02
133	Q159	03-24	USGS	22.5	822	823	--	7.4	80	476	120	<.02
134	Q180	03-25	USGS	26.0	1,340	1,390	--	8.7	40	780	250	<.02
135	Q181	03-25	USGS	26.0	1,630	1,680	--	8.5	30	926	350	<.02

Table 2. Water-quality data collected from wells in Jackson County, Mississippi, during 1993--Continued

Site number	Local number	Date	C.A.	Temperature (°C)	Specific conductance (µS/cm) field	Specific conductance (µS/cm) lab	pH field	pH lab	Color (platinum-cobalt units)	ROE (mg/L)	Chloride (mg/L)	Nitrite plus nitrate-N (mg/L)
136	Q420	03-30	USGS	23.5	920	935	8.1	8.0	40	544	120	<0.02
137	Q429	03-24	USGS	24.0	1,540	1,540	--	8.7	100	884	220	<.02
138	Q430	03-24	USGS	23.5	1,490	1,510	--	8.7	70	855	230	<.02
139	Q431	03-24	USGS	22.5	1,330	1,350	--	8.6	110	783	170	<.02
140	Q434	03-31	USGS	24.5	834	856	8.9	8.8	60	506	54	<.02
141	Q441	03-25	USGS	22.0	--	313	--	--	<5	174	68	.02
142	Q444	03-25	USGS	23.0	1,040	1,060	--	8.1	30	615	140	<.02
143	Q445	03-24	USGS	22.5	1,230	1,230	--	8.4	40	706	170	<.02
144	Q447	03-25	USGS	22.5	1,080	1,110	--	8.5	50	644	140	<.02
145	Q448	03-24	USGS	21.5	726	733	--	6.8	70	395	130	<.02
146	Q462	04-19	OLWR	--	179	178	7.0	6.9	5	120	8.6	<.02
147	Q463	04-19	OLWR	--	107	109	6.9	6.8	5	88	7.8	.02
148	Q464	04-19	OLWR	--	1,240	1,250	8.6	8.4	65	728	160	<.02
149	Q465	04-19	OLWR	--	950	961	8.0	7.8	30	564	130	<.02
150	Q466	04-19	OLWR	--	558	564	8.0	7.7	35	338	61	<.02

Table 3. Water-quality data collected from selected wells in Jackson County, Mississippi, during 1993

[N, as nitrogen; P, as phosphorus; mg/L, milligrams per liter; µg/L, micrograms per liter; $CaCO_3$, calcium carbonate. All constituents dissolved]

Site number	Local number	Date	Ammonia, as N	Phosphorus, ortho, as P	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Sulfate (mg/L)	Fluoride (mg/L)	Silica (mg/L)	Iron (µg/L)	Manganese (µg/L)	Alkalinity, as $CaCO_3$
1	A036	03-22	0.21	0.36	0.6	<0.10	68	0.51	12	0.3	20	11	10	134
4	B003	03-23	.11	.39	.9	<.10	110	.70	6.6	.5	20	6	9	226
5	B020	03-23	.28	.40	.2	<.10	93	.38	7.1	.4	20	12	9	161
7	C015	03-24	.68	.61	.8	<.10	180	.67	.6	.9	14	23	4	377
8	C037	03-24	.02	.02	3.7	1.1	7.4	2.6	12	<.1	46	760	32	17
10	D052	03-24	.33	.48	2.7	.71	110	1.2	4.8	.5	32	21	71	221
11	E021	03-23	.32	.30	.6	<.10	99	.67	5.7	.4	20	12	8	180
12	E053	03-22	.40	.41	.7	<.10	110	.35	10	.6	16	36	6	229
13	E054	03-22	.30	.30	.2	<.10	87	.35	8.5	.3	18	21	4	161
14	F001	03-23	.32	.41	1.0	<.10	100	.53	5.9	.5	18	12	7	201
15	F097	03-23	.34	.38	1.0	<.10	88	.47	7.7	.3	20	17	7	164
19	G114	03-25	.70	.55	.8	.11	190	.72	.8	.9	14	13	4	369
20	G119	03-25	.39	.44	.7	<.10	110	.46	5.1	.5	15	10	4	214
23	H053	03-24	1.20	.44	1.8	.42	260	1.6	.4	1.0	13	12	7	343
24	J020	04-01	.18	.35	.4	<.10	89	.27	11	.4	21	<3	4	183
26	J032	04-01	.22	.35	.7	<.10	98	.53	7.2	.4	17	13	6	189
27	J038	04-01	.34	.36	2.5	.15	140	.92	4.4	.6	20	46	15	267
28	J039	04-01	.15	.32	<.1	<.10	59	.39	7.8	.4	30	11	2	121
31	J089	04-01	.21	.39	.3	<.10	80	.55	9.3	.4	28	<3	2	152
33	J168	04-01	.06	.31	.8	<.10	110	.84	6.5	.4	19	<3	8	170
34	J173	04-01	.30	.37	.3	<.10	96	.58	6.8	.4	19	<3	4	186
35	K069	03-29	.35	.25	2.7	.29	200	1.3	.2	.6	16	13	15	258
36	K071	03-29	.53	.31	.6	<.10	170	.39	.7	.5	15	9	4	258
39	K151	03-29	.35	.29	1.6	.15	180	1.1	.2	.6	16	20	8	281
40	K162	03-29	.31	.32	.4	<.10	100	.49	5.8	.4	17	3	3	194

Table 3. Water-quality data collected from selected wells in Jackson County, Mississippi, during 1993--Continued

Site number	Local number	Date	Ammonia, as N	Phosphorus, ortho, as P	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Sulfate (mg/L)	Fluoride (mg/L)	Silica (mg/L)	Iron (µg/L)	Manganese (µg/L)	Alkalinity, as $CaCO_3$
43	L009	03-25	0.94	0.66	1.2	0.20	300	1.0	0.3	2.1	13	49	5	612
44	L046	03-31	.48	.38	2.7	.37	170	.92	.3	.7	16	5	13	297
51	L137	03-25	1.10	.38	1.4	.22	270	1.3	.2	1.6	14	17	5	524
53	M009	03-31	.51	.51	.5	<.10	180	.57	2.2	.7	15	29	3	374
54	M025	03-31	.97	.52	1.7	.35	300	1.2	<.2	1.7	16	11	7	444
56	M154	03-31	1.10	.49	1.7	.40	350	1.5	<.2	1.7	14	20	8	495
82	N496	04-02	.17	.41	.4	<.10	82	.39	7.1	.6	23	9	4	168
101	O234	03-30	.59	.30	1.1	<.10	190	.58	.2	.6	19	6	11	296
105	O284	03-30	.12	.39	2.4	.45	95	1.2	7.7	.6	16	57	28	202
110	O310	03-30	.01	.40	.4	<.10	100	.40	8.2	.5	14	63	5	205
128	P430	03-30	.34	.31	3.8	1.2	160	2.0	.2	.6	23	30	40	230
136	Q420	03-30	.53	.42	2.0	1.4	200	2.8	<.2	1.1	23	21	13	298

Table 4. Summary of water-quality data collected from wells in Jackson County, Mississippi, during 1993

[°C, degrees Celsius; µS/cm, microsiemens per centimeter at 25 °C; ROE, residue on evaporation at 180 °C; mg/L, milligrams per liter; N, as nitrogen; <, less than. All constituents dissolved]

	Minimum	Median	Maximum
Citronelle Formation (5 samples)			
Depth, in feet	75	96	180
Temperature (°C)	21.5	21.5	21.5
Specific conductance, field (µS/cm)	35	133	726
Specific conductance, lab (µS/cm)	32	137	733
pH, field	6.0	6.8	7.0
pH, lab	5.6	6.8	6.9
Color (platinum-cobalt units)	5	5	70
ROE (mg/L)	22	112	395
Chloride (mg/L)	6.3	8.6	130
Nitrite plus nitrate, as N (mg/L)	<.02	<.02	.09
Graham Ferry Formation (57 samples)			
Depth, in feet	70	352	599
Temperature (°C)	19.0	23.5	28.0
Specific conductance, field (µS/cm)	120	599	1,630
Specific conductance, lab (µS/cm)	118	589	1,690
pH, field	6.2	8.7	10.3
pH, lab	6.3	8.5	9.5
Color (platinum-cobalt units)	<5	20	140
ROE (mg/L)	105	346	943
Chloride (mg/L)	3.4	27	370
Nitrite plus nitrate, as N (mg/L)	<.02	<.02	.25
Pascagoula Formation (70 samples)			
Depth, in feet	188	685	1,395
Temperature (°C)	20.5	23.8	29.5
Specific conductance, field (µS/cm)	81	736	2,290
Specific conductance, lab (µS/cm)	77	746	2,340
pH, field	7.6	8.9	9.2
pH, lab	6.3	8.8	9.1
Color (platinum-cobalt units)	<5	20	140
ROE (mg/L)	88	431	1,260
Chloride (mg/L)	3.1	32	560
Nitrite plus nitrate, as N (mg/L)	<.02	<.02	.10

Table 4. Summary of water-quality data collected from wells in Jackson County, Mississippi, during 1993--Continued

	Deposits of Miocene age (18 samples)		
	Minimum	Median	Maximum
Depth, in feet	430	932	1,400
Temperature (°C)	23.0	24.0	29.0
Specific conductance, field (µS/cm)	345	450	860
Specific conductance, lab (µS/cm)	351	464	913
pH, field	8.6	9.0	9.1
pH, lab	8.7	9.0	9.1
Color (platinum-cobalt units)	<5	15	60
ROE (mg/L)	214	277	550
Chloride (mg/L)	6.1	20.5	130
Nitrite plus nitrate, as N (mg/L)	<.02	<.02	.12

	All geologic units (150 samples)		
	Minimum	Median	Maximum
Depth, in feet	70	505	1,400
Temperature (°C)	19.0	23.5	29.5
Specific conductance, field (µS/cm)	35	627	2,290
Specific conductance, lab (µS/cm)	32	621	2,340
pH, field	6.0	8.8	10.3
pH, lab	5.6	8.7	9.5
Color (platinum-cobalt units)	<5	20	140
ROE (mg/L)	22	371	1,260
Chloride (mg/L)	3.1	25	560
Nitrite plus nitrate, as N (mg/L)	<.02	<.02	.25