

SUMMARY OF AQUIFER TESTS IN MISSISSIPPI, JUNE 1942 THROUGH MAY 1988

By Larry J. Slack and Daphne Darden

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 90-4155

Prepared in cooperation with the

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY,
OFFICE OF GEOLOGY



Jackson, Mississippi
1991

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CONVERSION FACTORS

For readers who may prefer to use the metric (International System) of units rather than the inch-pound units used herein, the conversion factors are listed below:

| <u>Multiply inch-pound unit</u> | <u>By</u> | <u>To obtain metric unit</u> |
|--|-----------|------------------------------|
| foot (ft) | 0.3048 | meter |
| foot per day (ft/d) | 0.3048 | meter per day |
| foot squared per day (ft ² /d) | 0.09290 | meter squared per day |
| gallon per minute (gal/min) | 0.06309 | liter per second |
| gallon per minute per foot [(gal/min)/ft] | 0.2070 | liter per second per meter |
| million gallons per day (Mgal/d) | 0.003785 | million cubic meters per day |

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ABSTRACT

The U.S. Geological Survey has analyzed hundreds of aquifer tests that were conducted from June 1942 through May 1988 in 75 of the 82 counties in Mississippi. This report briefly describes the occurrence, types, and methods of analysis of aquifer tests in the State and tabulates and summarizes the results of 574 tests. Most of these tests were conducted by water-well drillers upon completion of the wells, although U.S. Geological Survey personnel conducted or helped conduct many of the tests. The Theis nonequilibrium method and modifications were used to analyze aquifer-test data. About 20 percent of the aquifer tests are multiple-well tests and 80 percent are single-well tests.

Generally, the aquifers in younger rocks have larger transmissivity and hydraulic conductivity values than the aquifers in older rocks. Transmissivity ranged from 5 to 84,000 feet squared per day; the median transmissivity was 4,500 feet squared per day. The median transmissivity exceeded 1,000 feet squared per day for 12 of the 14 principal aquifers in the State. Hydraulic conductivity ranged from 0.3 to 400 feet per day; the median hydraulic conductivity was 57 feet per day. The median hydraulic conductivity exceeded 10 feet per day for 13 of the 14 principal aquifers.

INTRODUCTION

Ground water is a valuable resource in Mississippi; it is the source of water for about 92 percent of the State's population (2.6 million people). About 68 percent or 1,580 Mgal/d (million gallons per day) of the total freshwater withdrawals for all offstream water-use categories in the State (Solley and others, 1988) is from ground-water supplies. Wells capable of yielding 200 gal/min (gallons per minute) of water with quality suitable for most uses can be obtained nearly anywhere in the State (Bednar, 1988).

For State agencies to manage and receive maximum benefit from its ground-water resource, it is essential that hydrologists, water-well contractors, water users, and water-resource planners and managers have information that describes hydraulic characteristics of the principal aquifers in the State. Such information commonly is obtained from aquifer tests.

Purpose and Scope

The U.S. Geological Survey (USGS) has analyzed hundreds of aquifer tests that were conducted from June 1942 through May 1988 in 75 of the 82 counties in Mississippi. This report briefly describes the occurrence, types, and methods of analysis of aquifer tests in the State and tabulates and summarizes the results of 574 tests. The results of the aquifer tests are for the specific geologic units or zones in geologic units in which wells tested are completed and represent point sources of data representative of the unit tested. Consequently, the summaries of the aquifer-test data should be considered qualitative or, at best, semi-quantitative indications of the properties of the geologic units or principal aquifers as a whole.

General Hydrogeologic Setting

Mississippi is almost entirely in the East Gulf Coastal Plain (Fenneman, 1946) and is underlain by deposits of clay, sand, gravel, chalk, marl, and limestone. Rocks of Paleozoic age crop out in a few valleys in Tishomingo County in extreme northeastern Mississippi (fig.1). Aquifers in strata of

Cretaceous age, which occur in the northern part of the State, dip and thicken westward and southwestward. Aquifers in strata of Eocene age generally dip westward in the northern part of the State and southward in the central and southern parts.

Principal Aquifers

Most wells in Mississippi yield water from 1 or more of 14 principal aquifers. The aquifer names used in this report have been used traditionally in the State of Mississippi and by the U.S. Geological Survey; the names do not conform to the Survey's current guidelines, as specified by Laney and Davidson (1986), for phasing out time-stratigraphic names for aquifers. Except for the Paleozoic aquifer, the principal aquifers in Mississippi are irregular in thickness and physical character and exhibit extreme variation in their capacity to store and transmit water (Wasson, 1986).

The lithology, confining conditions, water quality, and water use of the principal aquifers were described by Boswell (1985); similarly, water quality and related topics (such as effects of land use on water quality and potential for water-quality changes) for the principal aquifers were described by Bednar (1988). More detailed information on the principal aquifers in the State was published by Gandl (1982) and Wasson (1986).

The following descriptions of principal aquifers in the State are based largely on the reports by Gandl (1982), Boswell (1985), and Wasson (1986); the water-use data are from Callahan and Barber (1990). The numbers in brackets are the aquifer numbers used in this report and correspond to those used by Bednar (1988). The geographic distribution of the principal aquifers is shown in figure 1.

[1]--The Mississippi River alluvial aquifer (table 1; Boswell, 1985) consists of alluvium--primarily clay, silt, sand, and gravel of Quaternary age. The aquifer is semiconfined. The Mississippi River alluvial aquifer underlies a 7,000-square-mile area in the northwestern part of the State commonly referred to as the

"Delta." In 1985, more than 75 percent (1,190 Mgal/d) of all ground water used in the State was withdrawn from wells completed in this aquifer (Callahan and Barber, 1990).

- [2]--The Citronelle aquifers consist primarily of clay, silt, sand, and gravel in Pliocene deposits (table 1; Boswell, 1985). The Citronelle aquifers generally are unconfined. In 1985, about 0.4 percent (6.7 Mgal/d) of ground water used in the State was withdrawn from these aquifers (Callahan and Barber, 1990).
- [3]--The Miocene aquifer system (table 1; Boswell, 1985; Wasson, 1986), includes aquifers in the Graham Ferry, Pascagoula, and Hattiesburg Formations and Catahoula Sandstone and consists primarily of clay, silt, sand, gravel, and sandstone. Aquifers of the Miocene system generally are confined throughout most of their area of use. In 1985, about 7.8 percent (124 Mgal/d) of the ground water used in the State was withdrawn from this aquifer system.
- [4]--The Oligocene aquifer system (table 1; Boswell, 1985) includes the Waynesboro Sand lentil of the Bucatunna Formation, the Byram, Glendon, Marianna, Mint Spring, and Forest Hill Formations, and consists primarily of clay, silt, sand, marl, and limestone. Aquifers of the Oligocene system generally are confined throughout most of their area of use. In 1985, less than 0.3 percent (4 Mgal/d) of the ground water used in the State was withdrawn from this aquifer system.
- Aquifers in the Eocene system (table 1; Boswell, 1985) include the Cockfield, Sparta, Winona-Tallahatta, Meridian-upper Wilcox, and lower Wilcox. In 1985, about 11 percent (174 Mgal/d) of ground water used in Mississippi was withdrawn from this aquifer system.
- [5]--The Cockfield aquifer (table 1; Gandl, 1982; Boswell, 1985) consists primarily of clay, silt, sand, marl, and lignite. Generally, the Cockfield is confined throughout most of its area of use.
- [6]--The Sparta aquifer (table 1; Boswell, 1985) consists primarily of clay, silt, sand, and lignite. Generally, the Sparta

aquifer is confined throughout most of its area of use.

- [7]--The Winona-Tallahatta aquifer (table 1; Boswell, 1985) consists primarily of clay and glauconitic sand. Generally, this aquifer is confined throughout most of its area of use.
- [8]--The Meridian-upper Wilcox aquifer (table 1; Boswell, 1985) consists primarily of clay, silt, sand, and lignite. Generally, this aquifer is confined throughout most of its area of use.
- [9]--The lower Wilcox aquifer (table 1; Boswell, 1985) consists primarily of clay, silt, sand, and lignite. Generally, this aquifer is confined throughout most of its area of use.
- The Cretaceous aquifer system (table 1; Boswell, 1985) includes the Ripley aquifers, the Coffee Sand aquifer, the Eutaw-McShan aquifer, and the Tuscaloosa aquifer system. In 1985, about 4.9 percent (78 Mgal/d) of ground water used in the State was withdrawn from this aquifer system.
- [10]--The Ripley aquifers (table 1; Boswell, 1985) consist primarily of clay, sand, sandstone, and limestone. Generally, these aquifers are confined throughout most of their area of use.
- [11]--The Coffee Sand aquifer (table 1; Boswell, 1985) consists primarily of clay, sand, and sandstone. Generally, this aquifer is confined throughout most of its area of use.
- [12]--The Eutaw-McShan aquifer (table 1; Boswell, 1985) consists primarily of clay and sand. Generally, this aquifer is confined throughout most of its area of use.
- [13]--The Tuscaloosa aquifer system (table 1; Boswell, 1985) consists primarily of clay, silt, and sand. These aquifers generally are confined throughout most of their area of use.
- [14]--The Paleozoic aquifer (table 1; Boswell, 1985) consists primarily of clay, chert, and limestone. Generally, this aquifer is confined throughout most of its area of use. In 1985, about 0.3 percent (4.4 Mgal/d) of ground water used in the State was withdrawn from this aquifer.

AVAILABILITY AND ANALYSIS OF AQUIFER TESTS

In cooperation with State, local, and other Federal agencies, the USGS has been gathering and analyzing aquifer-test data in Mississippi since the 1940's. Although the USGS conducted some aquifer tests, much of the available aquifer-test data have been provided by water-well drillers, State and local agencies, and other Federal agencies. Data analyzed by the USGS as of June 1963 were published by Harvey (1963); data analyzed as of June 1971 were published by Newcome (1971). This report includes all data analyzed by June 1990 and includes results of tests conducted from June 1942 through May 1988.

The earliest reported aquifer test in Mississippi was completed in June 1942 at Hattiesburg in Forrest County. In December 1942 and early 1943, three aquifer tests were completed at Camp McCain in Grenada County (Brown and Adams, 1943). Three aquifer tests were conducted in early 1943 at Camp Van Dorn in Wilkinson County (Brown and Guyton, 1943), and three others were conducted in May 1943 at Camp Shelby in Forrest County (Brown, 1944). These first aquifer tests, the joint work of the USGS and the Mississippi State Geological Survey, were undertaken at the request of the War Department.

After 1943 the number of aquifer tests analyzed by the USGS averaged about two per year through 1962. As a result of increased activities in water-resources investigations, the number of aquifer tests analyzed increased to 31 for the year 1963 and averaged about 40 per year from 1963 to 1971. With the increase in the amount of information available on aquifer characteristics, the number of tests analyzed was decreased to about 10 per year from 1972 to 1982 and, further, to about 6 per year from 1983 to 1988. Many of the aquifer tests conducted by water-well drillers since about 1970 were not analyzed by the U.S. Geological Survey. Results from these tests are not included in this report.

TYPES OF AQUIFER TESTS

Most aquifer tests in Mississippi are conducted by water-well drillers upon completion of the wells. Generally, large capacity wells that are screened in the most productive part of an aquifer are used for aquifer tests. About 20 percent of the aquifer tests in Mississippi are multiple-well tests; the remaining 80 percent are single-well tests.

Aquifer tests are tabulated in various ways and with large differences in reliability and detail. Some were designed specifically to determine the hydraulic characteristics of the aquifer, and state-of-the-art equipment and methods were used. Many of these tests are multiple-well tests and include not only a pumped well, but also one or more properly spaced observation wells. Some single-well tests involve crude equipment and methods; generally, these few tests were not designed to determine aquifer characteristics, but to determine if a suitable quantity or quality of water could be obtained, or to test efficiency of the well. Many of the remaining tests could be classified as intermediate between the two previously described extremes. No attempt has been made to rate qualitatively the aquifer tests in this report by assigning subjective labels, but completed tests with questionable data or data deficiencies have not been included.

To the extent practical, a constant pumping rate is maintained during most aquifer tests. Multiple-well tests involve determining pumping rate (well discharge) and making water-level measurements of the pumped well and one or more nearby wells screened in the same interval. Single-well tests involve calculating or measuring pumping rate and making water-level measurements of the well during pumping and (or) during recovery. Additional information collected includes that described in the following section.

DATA COLLECTION

Commonly, when a water well is constructed, the following information is recorded:

1. Well owner or operator
2. Location of well
3. Depth of well
4. Diameter, length, and type of casing
5. Diameter, length, and placement of screen
6. Altitude of the land surface
7. Description of formation material and thickness of aquifer
8. Name of aquifer
9. Static (non-pumping) water level
10. Aquifer-test data:
 - a. Well yield and time
 - b. Water-level changes [drawdown and (or) recovery]
 - c. Distance to observation wells.

The well yield is the constant rate of discharge that is used during the aquifer test. The specific capacity, which is a measure of the productivity of the well, is then calculated by dividing that yield by the change in water level (at a stated time); for example, "1-day specific capacity" is commonly expressed in gallons per minute per foot of drawdown. Transmissivity and storage coefficient are determined as discussed in the next section of this report. Hydraulic conductivity is calculated by dividing the transmissivity by the thickness of aquifer contributing water to the well. Frequently, this interval is estimated using borehole geophysical logs to determine upper and lower limits of water-yielding units.

METHODS OF ANALYSIS

Theis (1935) derived a nonequilibrium ground-water flow equation from an analogy between the hydrologic conditions in an aquifer and the thermal conditions in an equivalent thermal system. Theis's classic nonequilibrium flow equation and modifications are the basis of analysis for the aquifer tests in this report. For a detailed discussion of the principles of ground-water hydraulics and the theory of aquifer tests used by the USGS, the reader is referred to reports by Lohman (1972) and Ferris and others (1962).

Despite the restrictive assumptions on which the Theis nonequilibrium equation has been based, it has been applied successfully to many problems of ground-water flow (Ferris and others, 1962). The Theis equation involves the following assumptions (Theis, 1935; Lohman, 1972):

1. The aquifer is homogeneous, isotropic, of uniform thickness, and of infinite areal extent.
2. Before pumping, the potentiometric surface is horizontal.
3. The well is pumped at a constant discharge rate.
4. The well penetrates the entire thickness, and flow to the well is horizontal in the aquifer.
5. The well diameter is infinitesimal so that storage within the well can be neglected.
6. Water removed from storage in the aquifer is discharged instantaneously with decline of hydraulic head.

Multiple-Well Analysis

The most useful aquifer tests are multiple-well tests. The multiple-well tests published in this report were analyzed using

a graphical solution of the Theis nonequilibrium method as described by Lohman (1972). In its usually applied form (Ferris and others, 1962), the nonequilibrium equation may be written as:

$$s = \frac{Q}{4\pi T} \int_{r^2 S/4Tt}^{\infty} \frac{e^{-u}}{u} du \quad (1)$$

where

- s = drawdown, in feet;
- Q = well yield (constant discharge rate), in cubic feet per day;
- T = transmissivity, in feet squared per day;
- r = distance, in feet, between pumped well and observation well;
- S = storage coefficient, expressed as a decimal fraction;
- t = time, in days, since pumping began; and
- u = variable of integration, $r^2 S/4Tt$.

Transmissivity is the rate at which water, at the prevailing temperature, is transmitted through a unit width of an aquifer under a unit hydraulic gradient. Drawdown is the difference between the water level in a well before pumping (static level) and the water level in the well during pumping; for flowing wells, drawdown is the reduction of the pressure head as a result of the discharge of water. The storage coefficient is the volume of water an aquifer releases from or takes into storage per unit surface area of the aquifer per unit change in head.

Single-Well Analysis

The single-well tests published in this report were analyzed using the following modification to the Theis equation as described by Ferris and others (1962):

$$T = \frac{35.3Q}{\Delta s} \quad (2)$$

where

- T = transmissivity, in feet squared per day;
- Q = the well yield (constant discharge rate), in gallons per minute; and
- Δs = the change in drawdown, in feet, over one log cycle of time.

AQUIFER-TEST RESULTS

The results of 574 aquifer tests in Mississippi for which the data have been analyzed by the USGS are listed in table 2. The site number in table 2 refers to the site number used in figures 2 through 8, which show the location of the aquifer tests. The local well number, well owner or operator, location, date of the aquifer test, depth of well, altitude of land surface, and code for the geologic unit in which the well is completed are also listed in table 2. The geologic unit codes and corresponding geologic units and principal aquifers are cross-referenced in table 1.

Some of the values reported in table 2 differ from those previously published because of reexamination of the tests as additional information became available. Occasionally, the drilling of a new well provides more reliable data on aquifer thickness than that available at the time the original aquifer test was completed. In a few instances, an aquifer test was repeated, either with a different pumping rate or increased length of test, or with the availability of an additional observation well. Also, techniques in aquifer-test analysis are being refined continually, permitting improved interpretation of the data.

All but 22 of the 574 aquifer tests were conducted on wells completed in the 14 principal aquifers in the State. Of these 22 aquifer tests, 17 were for wells completed in the middle Wilcox aquifer system, which, although not yet classified a principal aquifer, is of growing importance. Taylor and Arthur (1989) estimate that there may be several thousand mostly small-diameter domestic wells completed in sand beds of the

middle Wilcox in 23 counties in the State. Three of the tests were for wells completed in the Quaternary alluvium; one test was for a well completed in terrace deposits; and one test was for a well completed in the Tusahoma Formation. The well yield for the 574 aquifer tests ranged from 3 to 5,885 gal/min; the median was 267 gal/min.

Well and aquifer characteristics in Mississippi are summarized in table 3. The reader is cautioned that, as previously stated, the results of the aquifer tests are for the specific geologic units, or zones in geologic units, in which wells tested are completed and represent point sources of data representative of the unit tested. Consequently, the summaries of the aquifer-test data should be considered qualitative or, at best, semi-quantitative indications of the properties of the geologic units or principal aquifers as a whole. Aquifers are described in the order in which they would be penetrated by a well--in descending order from youngest to oldest. For convenience of the reader, also listed in table 3 are the common ranges of well depth and yield data from Boswell (1985) and transmissivity data from Wasson (1986).

The well-yield range in bold type in table 3 represents the interquartile range (the middle 50 percent) of the values reported in table 2. The "common range" of well yields from Boswell (1985) is the range of yields that can be obtained from wells designed and constructed to supply large quantities of water, such as are needed for public supply, agricultural, or industrial uses. Consequently, yields reported by Boswell do not represent the average yield of all wells, which may include many small-diameter rural domestic wells.

The transmissivity range in bold type in table 3 represents the interquartile range of the values reported in table 2. The "common range" of transmissivity values from Wasson (1986) were based principally on geophysical logs. Common ranges of transmissivity reported by Wasson varied from subjectively qualified "general" or "common" ranges for some aquifers to the entire range (minimum to maximum) for other aquifers.

Transmissivity is very useful in comparing aquifers. The minimum, median,

and maximum transmissivity values (from table 2) for each of the principal aquifers in Mississippi are shown in figure 9. Transmissivity ranged from 5 to 84,000 ft²/d (feet squared per day). The median transmissivity was 4,500 ft²/d and exceeded 1,000 ft²/d for 12 of the 14 principal aquifers in the State. Generally, the aquifers in younger rocks have larger transmissivity values than the aquifers in older rocks.

Hydraulic conductivity also is useful in comparing aquifers. The minimum, median, and maximum hydraulic conductivity values (from table 2) for each of the principal aquifers in Mississippi are shown in figure 10. Hydraulic conductivity ranged from 0.3 to 400 ft/d (feet per day). The median hydraulic conductivity was 57 ft/d and exceeded 10 ft/d for 13 of the principal aquifers. Generally, the aquifers in younger rocks have larger hydraulic conductivity values than the aquifers in older rocks.

SUMMARY

Ground water is a valuable resource in Mississippi. Information describing hydraulic characteristics of the principal aquifers in the State is essential for State agencies to manage and receive maximum benefit from its ground-water resource. Such information commonly is obtained from aquifer tests. Hundreds of aquifer tests were conducted from June 1942 through May 1988 in 75 of the 82 counties in Mississippi. This report briefly describes the occurrence, types, and methods of analysis of aquifer tests in the State and summarizes the results of 574 tests for which the data have been analyzed by the USGS.

Most of the aquifer tests in Mississippi are conducted by water-well drillers during completion of the wells, although USGS personnel conducted or helped conduct some aquifer tests. The Theis nonequilibrium method and modifications were used to analyze the data. About 20 percent of the 574 aquifer tests described in this report are multiple-well tests and 80 percent are single-well tests. The well yield ranged from 3 to 5,885 gal/min.

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DEFINITION OF TERMS

[Modified from Heath (1983, 1984), Laney and Davidson (1986), Lohman (1972), and the U.S. Geological Survey (1985)]

- Alluvium.** A general term for deposits of clay, silt, sand, gravel, or other particulate rock material in a streambed, on a flood plain, or a delta, or at the base of a mountain; commonly used for unconsolidated material deposited by a stream or other body of running water.
- Aquifer.** A geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield water to wells and springs of sufficient quantities for a source of supply for a particular use.
- Aquifer system.** A heterogeneous body of intercalated permeable and poorly permeable material that functions regionally as a water-yielding hydraulic unit; it comprises two or more permeable beds (aquifers) separated at least by confining beds that impede ground-water movement but do not greatly affect the regional hydraulic continuity of the system.
- Aquifer test.** A test to determine the hydraulic properties of an aquifer or aquifers; generally consists of pumping one well and recording both the pumping rate and drawdown in that well and, sometimes, in additional nearby wells.
- Confined aquifer.** An aquifer in which ground water is confined under pressure that is significantly greater than atmospheric pressure; an aquifer saturated with water and bounded above and below by beds having a distinctly smaller hydraulic conductivity than the aquifer itself.
- Discharge area.** An area in which subsurface water, including ground water and water in the unsaturated zone, is discharged to the land surface, to surface water, or to the atmosphere.
- Drawdown.** The decline of the ground-water level at a point caused by the withdrawal of water from an aquifer; the difference between the water level in a well before pumping and the water level in the well during pumping. For flowing wells, it is the decrease of the pressure head as a result of the discharge of water.
- Ground water.** Water in the saturated zone that is under a pressure equal to or greater than atmospheric pressure.
- Hydraulic conductivity.** The capacity of a material to transmit water; expressed as the volume of water that will move in unit time under a unit hydraulic gradient through a unit area measured at right angles to the direction of flow. In this report, hydraulic conductivity is reported in units of feet per day. In many older reports, hydraulic conductivity is reported in Meinzer units of gallons per day per square foot. To convert from units in gallons per day per square foot to units in feet per day, divide by 7.481.
- Hydraulic gradient.** Change in head per unit of distance measured in the direction of the greatest change in head.
- Hydraulic head.** In ground water, the height above a datum plane (such as sea level) of the column of water that can be supported by the hydraulic pressure at a given point in a ground-water system. For a well, the hydraulic head is equal to the distance between the water level in the well and the datum plane.
- Potentiometric surface.** An imaginary surface representing the static head of ground water in tightly cased wells that are completed in a water-yielding unit; or, in the case of unconfined aquifers, the water table.
- Semiconfined aquifer.** An aquifer that is partially confined by beds having small permeability through which leakage may nevertheless occur.
- Storage coefficient.** The volume of water an aquifer releases from or takes into storage per unit surface area of the aquifer per unit change in head.
- Transmissivity.** The rate at which water, at the prevailing temperature, is transmitted through a unit width of an aquifer under a unit hydraulic gradient. It is the capacity of an aquifer to transmit water and is equal to the hydraulic conductivity times the aquifer thickness. In this report, transmissivity is reported in units of feet per day. In many older reports, transmissivity is reported in Meinzer units of gallons per day per foot. To convert from units in gallons per day per foot to units in feet per day, divide by 7.481.
- Unconfined aquifer.** An aquifer that contains both an unsaturated and a saturated zone (that is, an aquifer that is not full of water); an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure.

EXPLANATION

- 1 Mississippi River alluvial aquifer coastal deposits
- 2 Citronelle aquifers
- 3 Miocene aquifer system
- 4 Oligocene aquifer system
- EOCENE AQUIFER SYSTEM
- 5 Cockfield aquifer
- 6 Sparta aquifer system
- 7 Winona — Tallahatta aquifer
- 8 Meridian— upper Wilcox aquifer
- 9 Lower Wilcox aquifer
- CRETACEOUS AQUIFER SYSTEM
- 10 Ripley aquifers
- 11 Coffee Sand aquifer
- 12 Eutaw — McShan aquifer
- 13 Tuscaloosa aquifer system
- 14 Paleozoic aquifer
- /// No significant freshwater
- x Not a principal aquifer

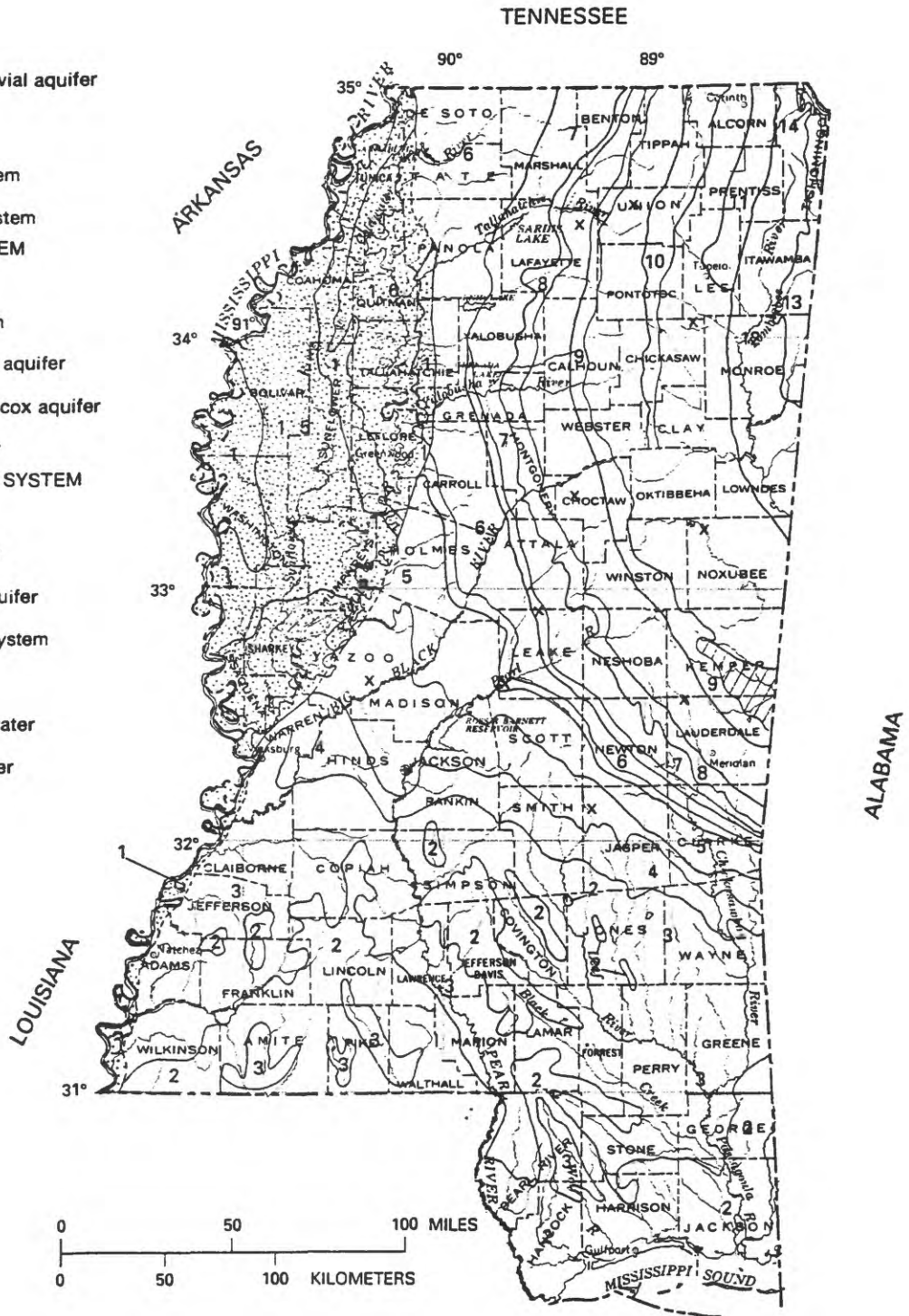


Figure 1.--Principal aquifers in Mississippi.

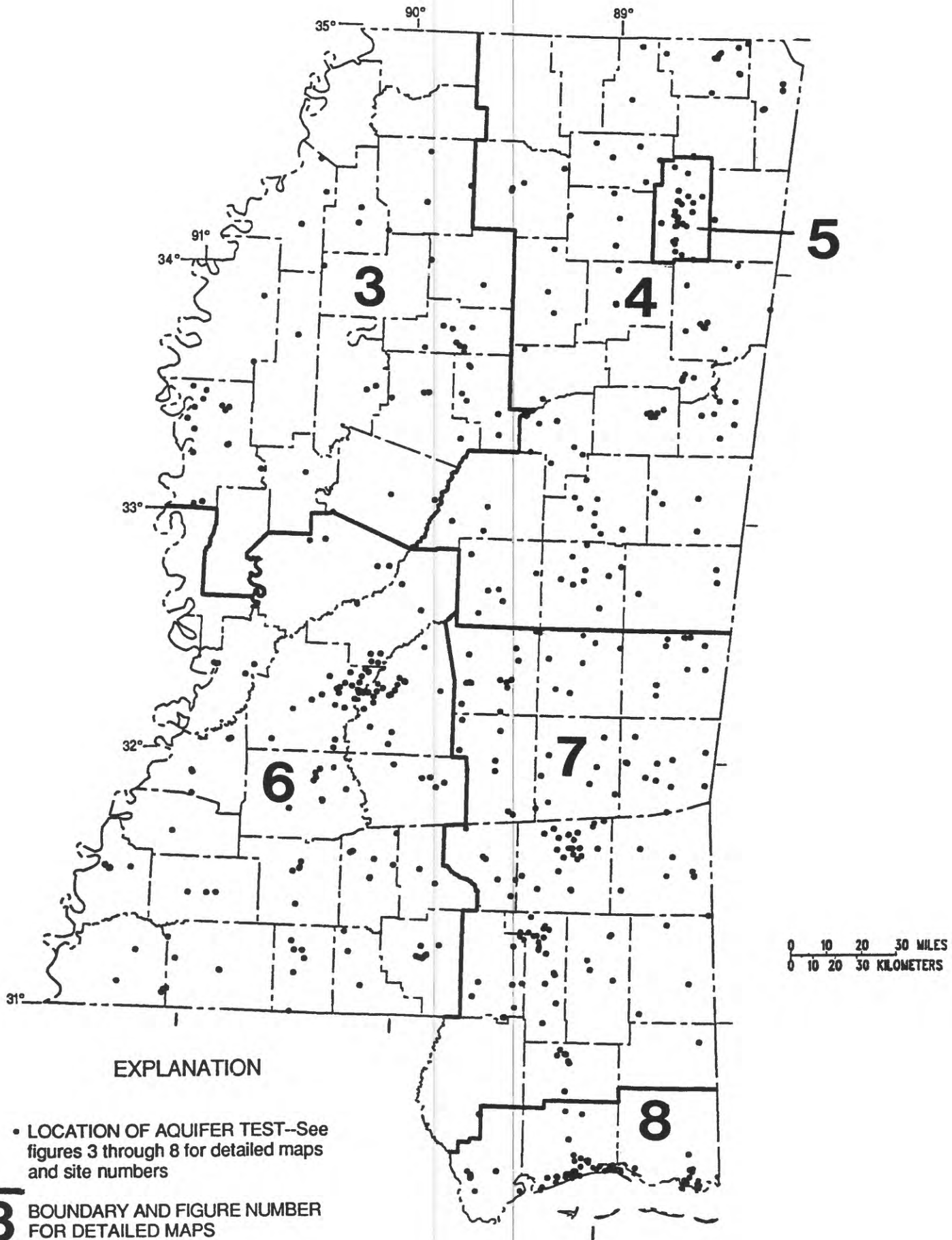


Figure 2.--Location of aquifer tests in Mississippi (all sites).

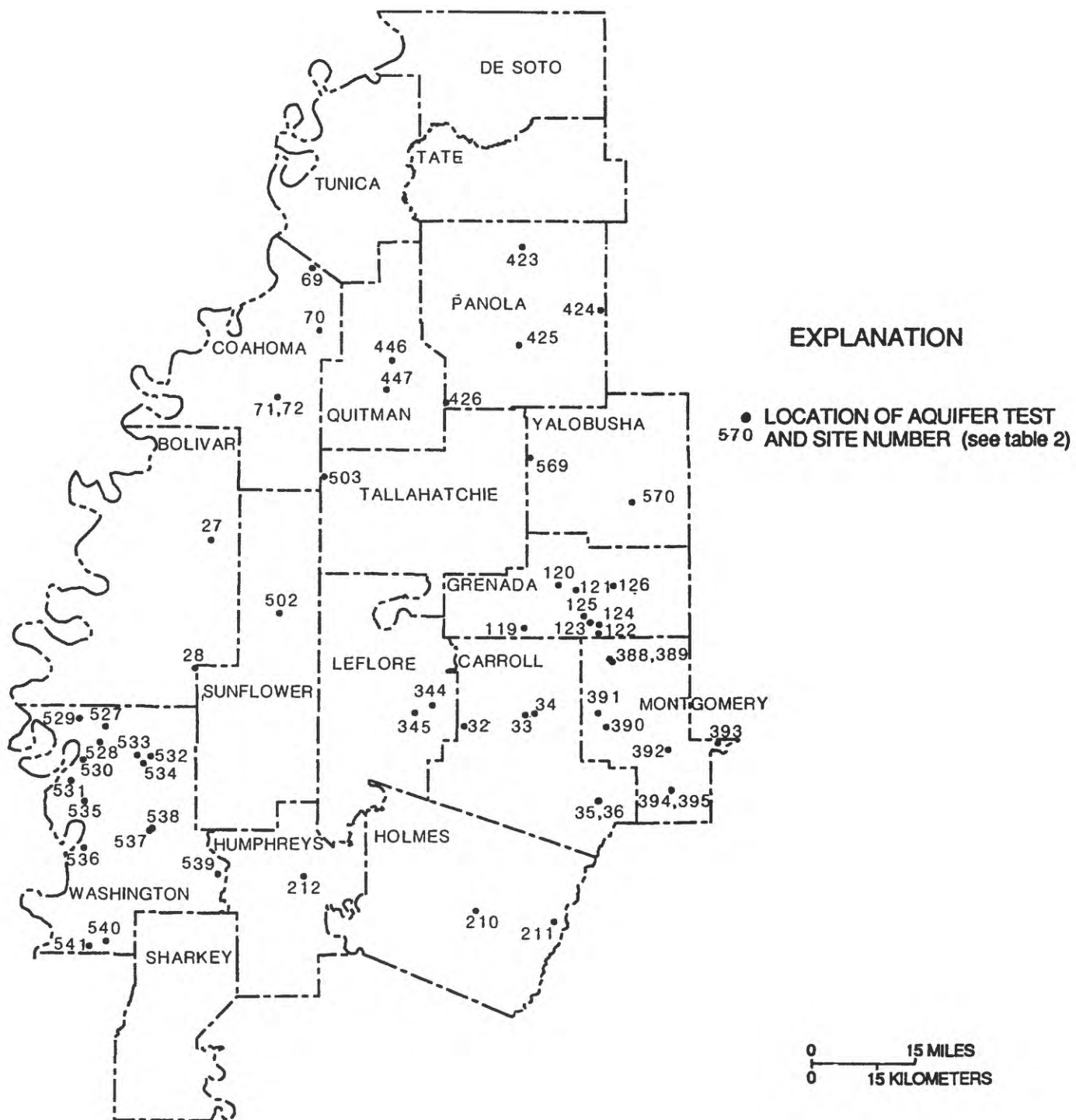


Figure 3.--Location of aquifer tests in northwestern Mississippi.

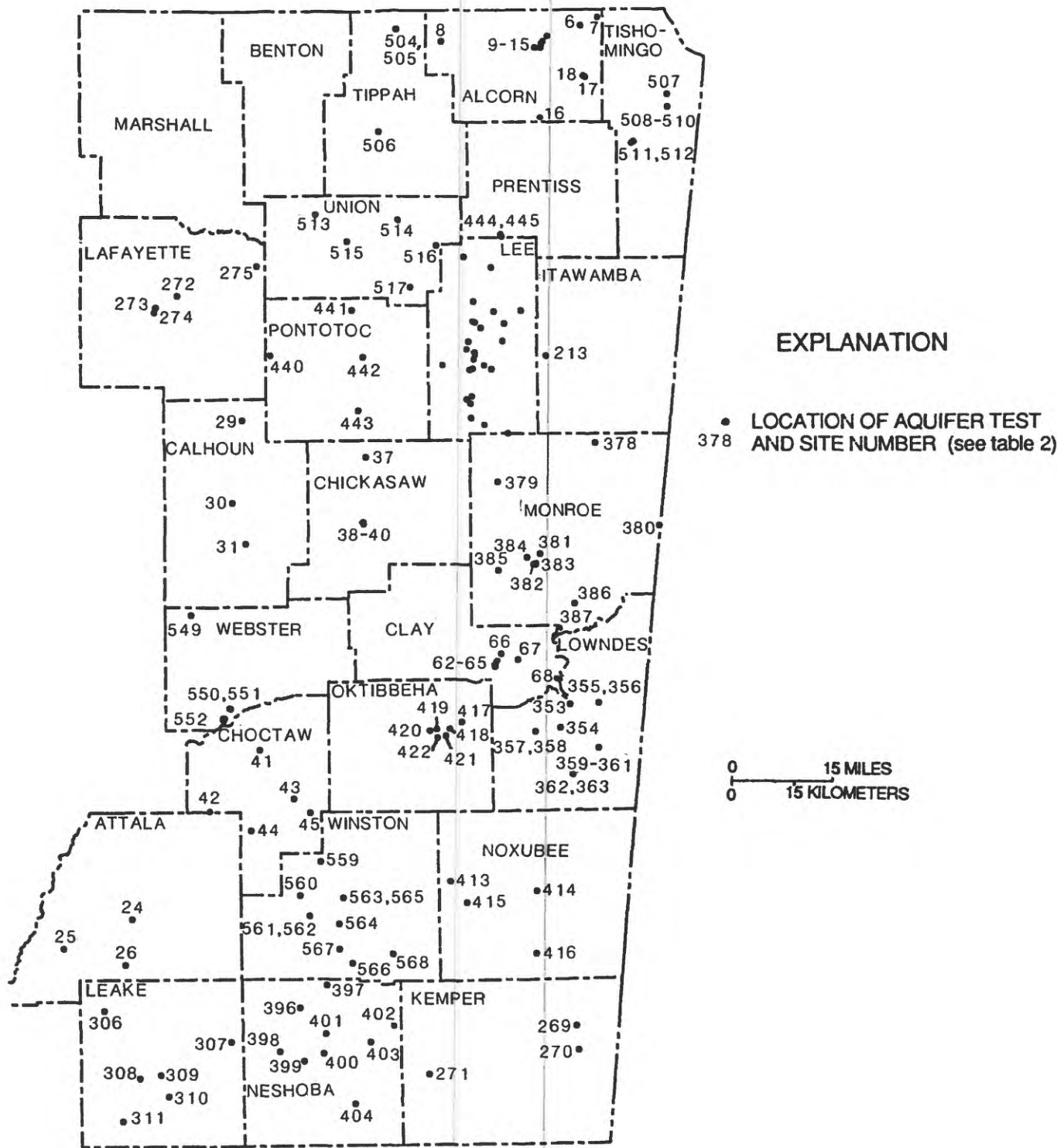


Figure 4.--Location of aquifer tests in northeastern Mississippi.

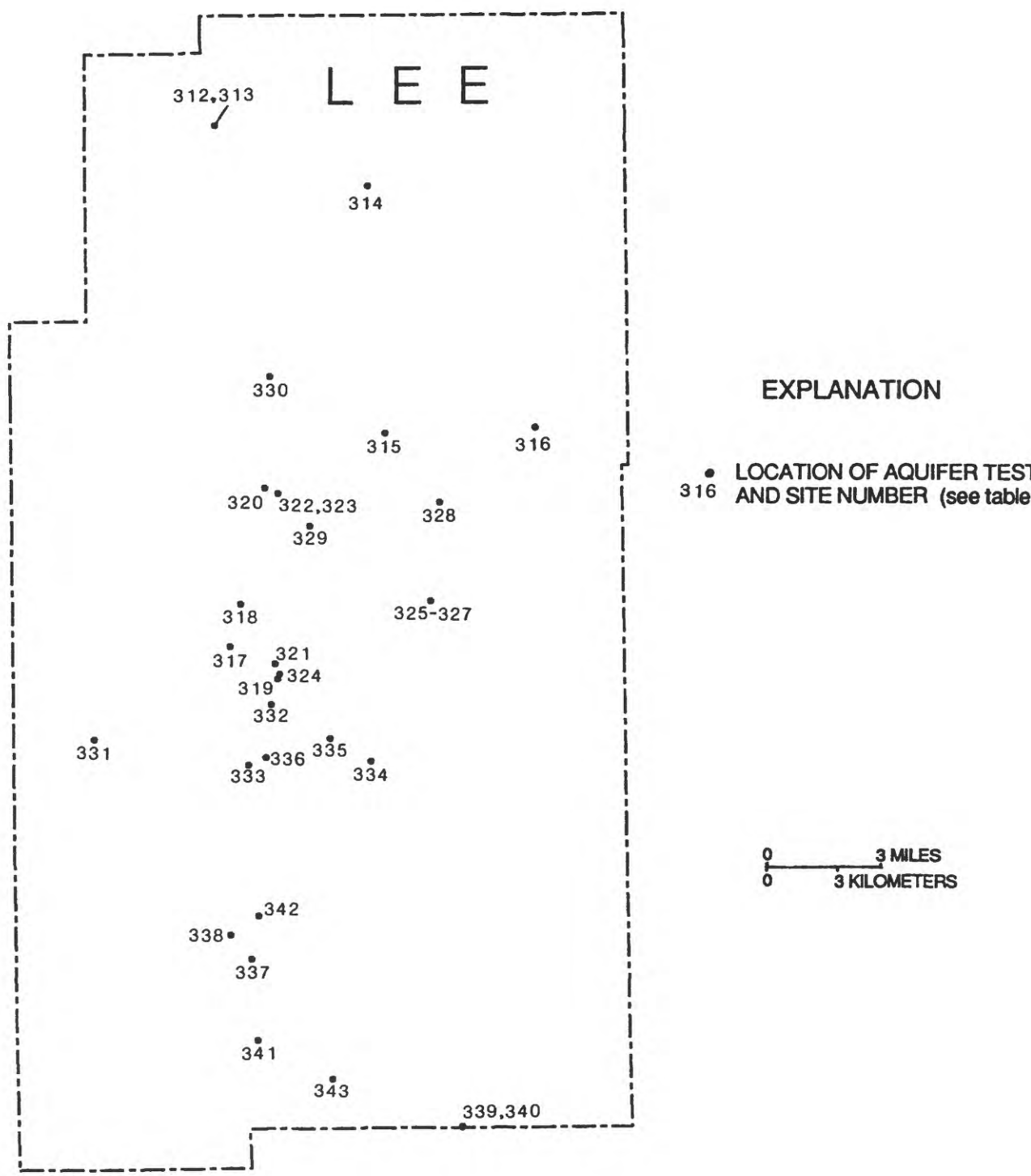


Figure 5.--Location of aquifer tests in Lee County.

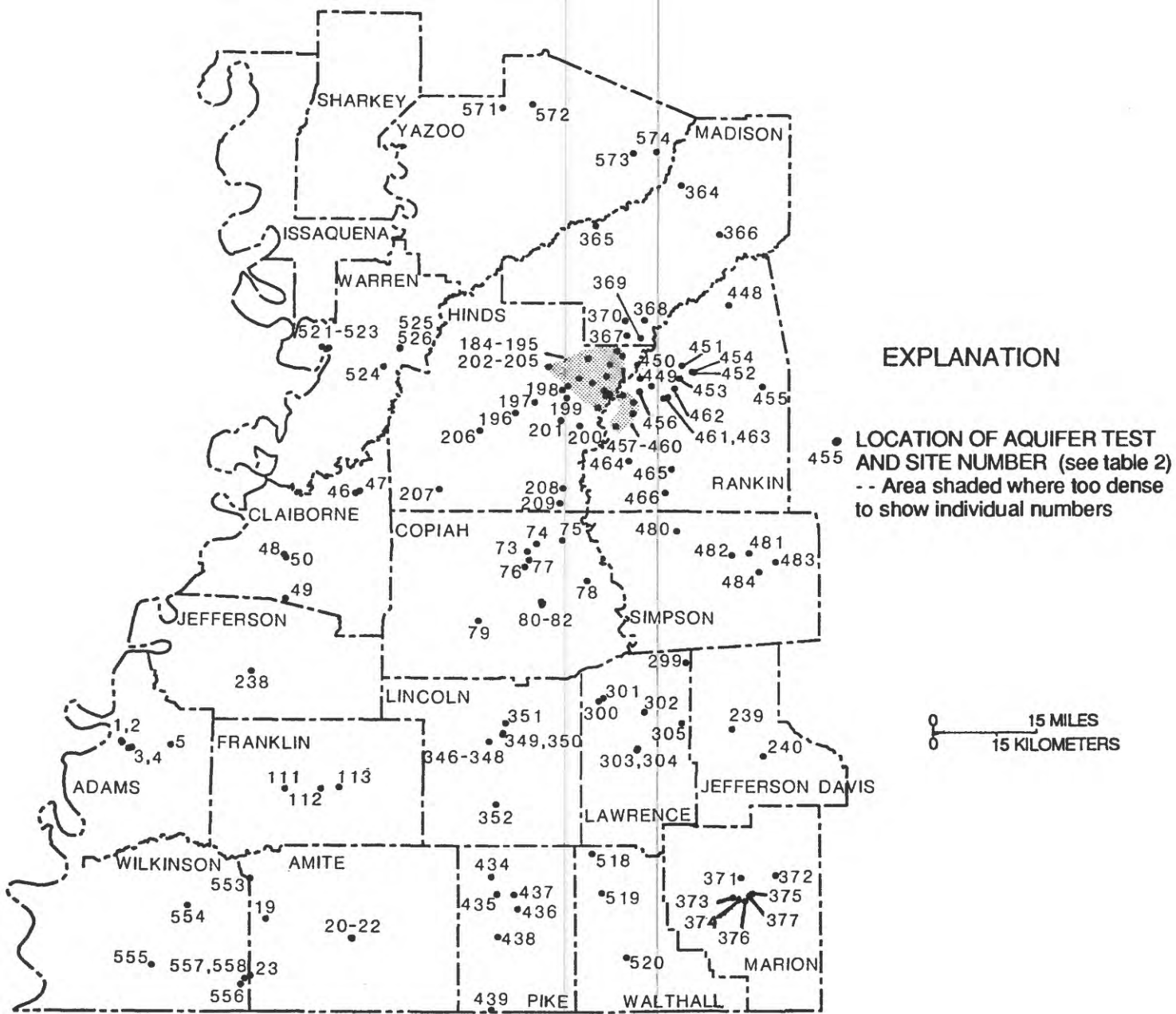
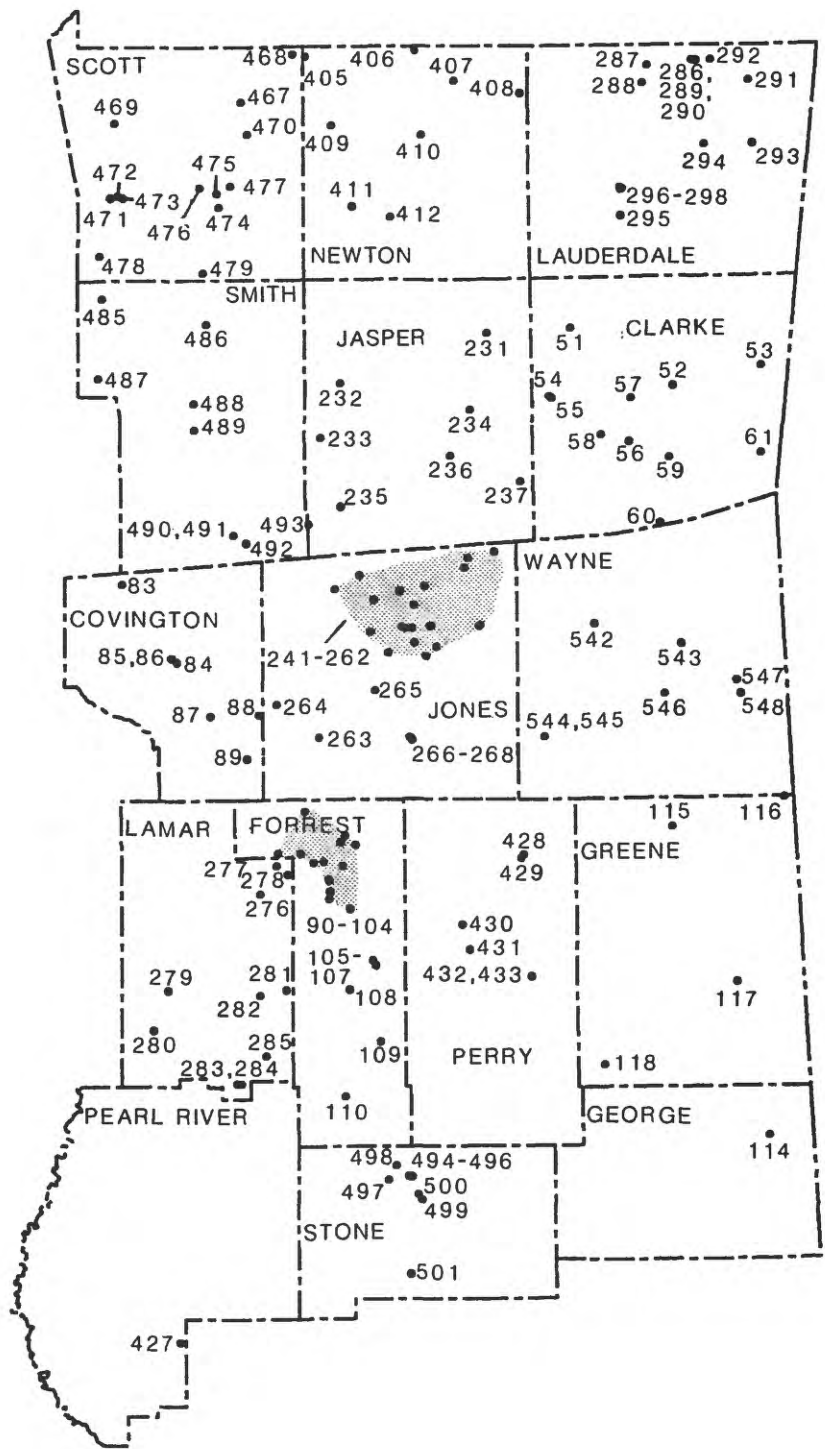


Figure 6.--Location of aquifer tests in southwestern Mississippi.



EXPLANATION

- LOCATION OF AQUIFER TEST AND SITE NUMBER (see table 2)
- Area shaded where too dense to show individual numbers



Figure 7.--Location of aquifer tests in southeastern Mississippi.

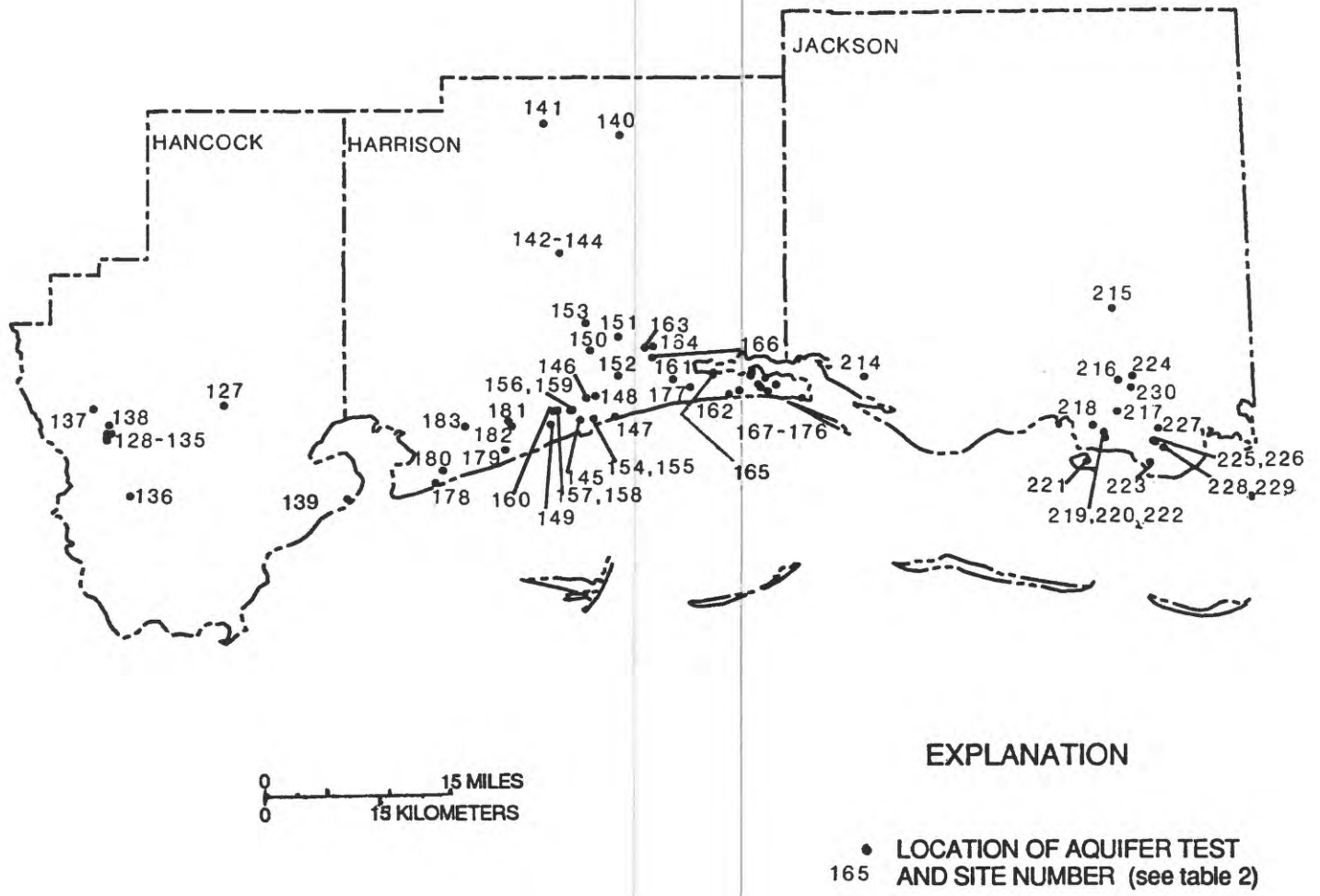


Figure 8.--Location of aquifer tests in three counties along the Gulf Coast.

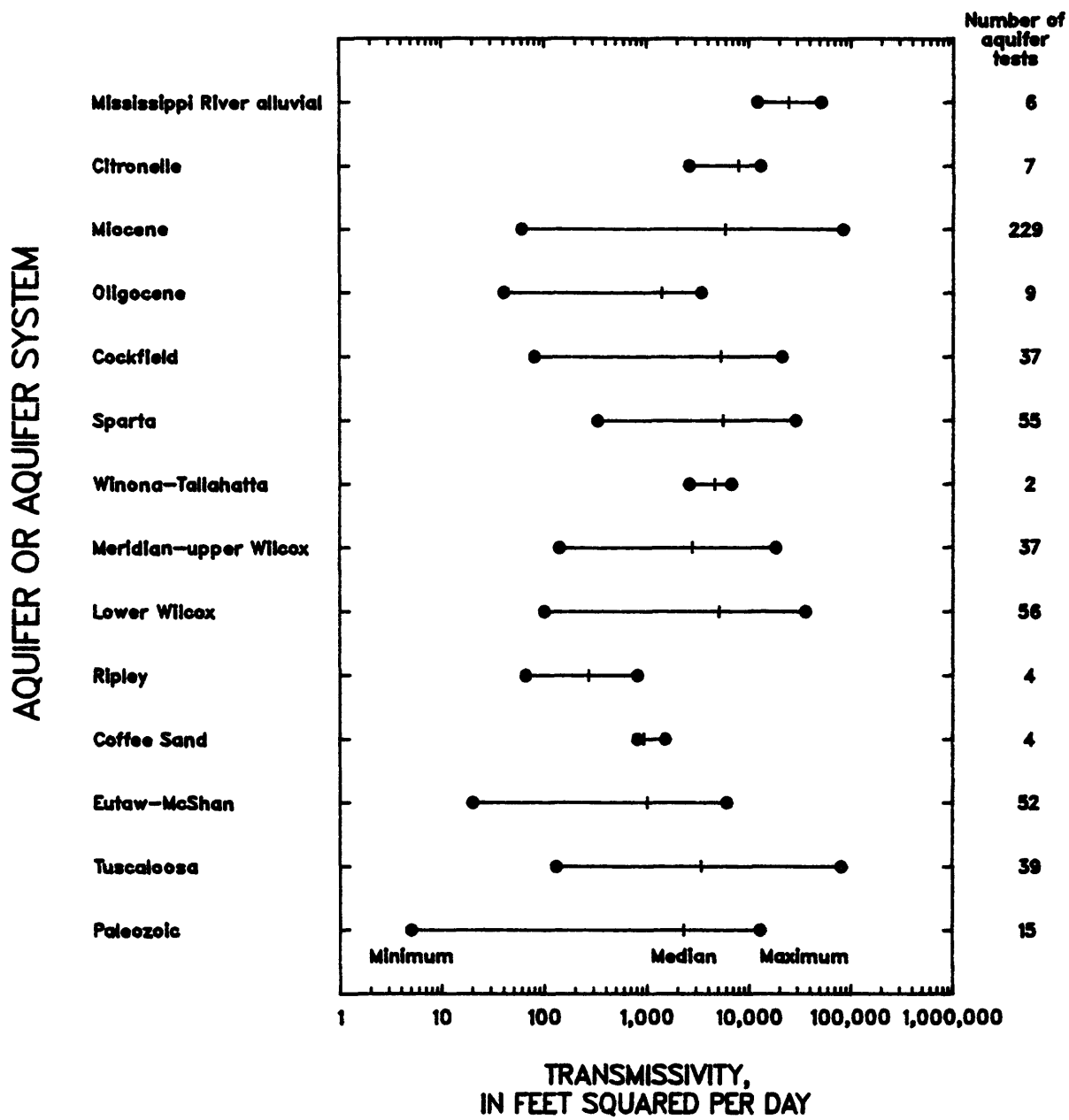


Figure 9.--Minimum, median, and maximum transmissivity for the principal aquifers in Mississippi.

AQUIFER OR AQUIFER SYSTEM

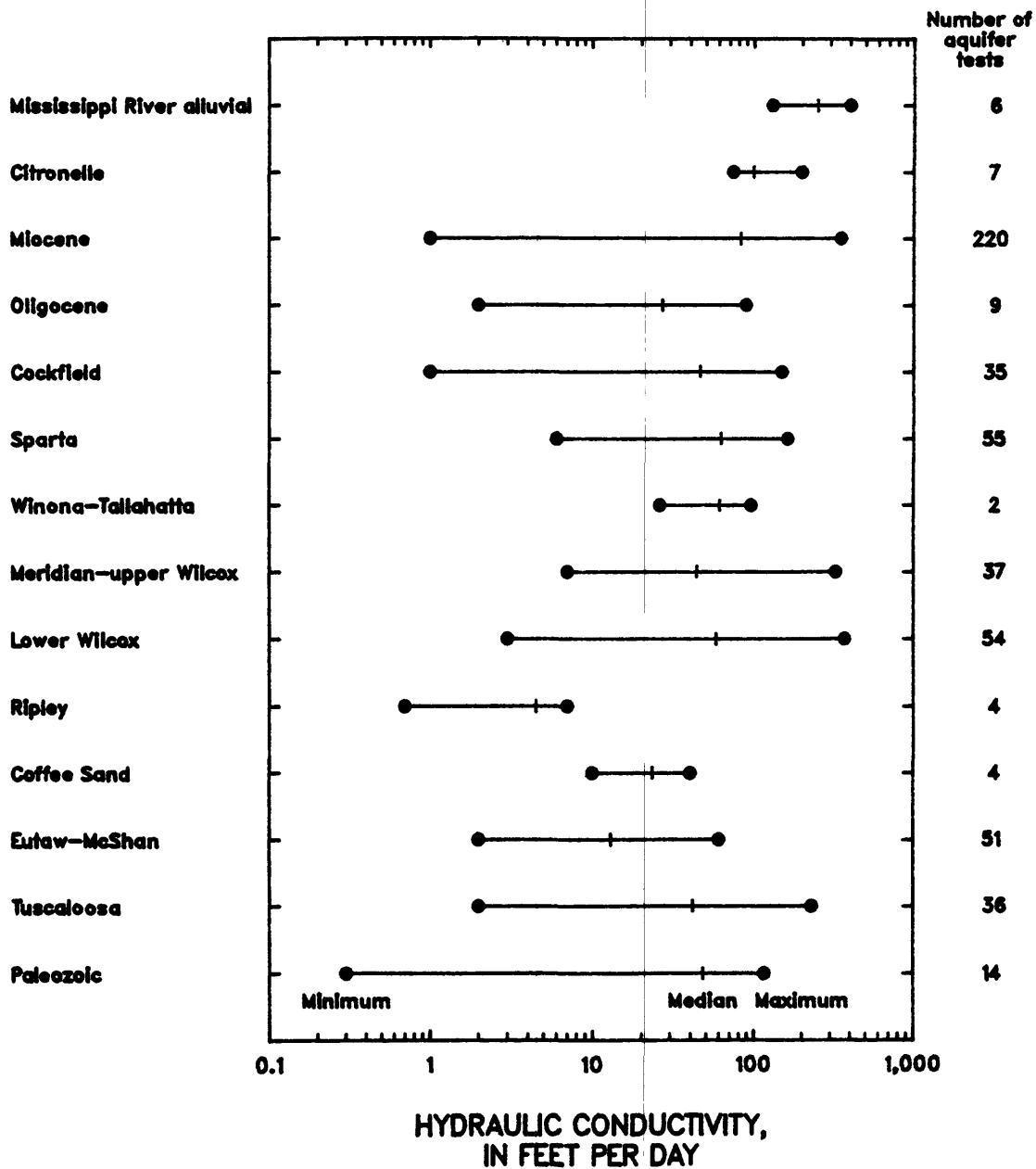


Figure 10.--Minimum, median, and maximum hydraulic conductivity for the principal aquifers in Mississippi.

Table 1. Geologic units and principal aquifers in Mississippi
 [Modified from Wasson, 1986; only geologic unit codes for units for which
 aquifer tests have been tabulated in table 2 are listed]

| Erathem | System | Series | Group | Geologic unit code | Geologic unit | Principal aquifer or aquifer system | |
|----------|--------------|--------------------------|---------------|---|---|---|---|
| Cenozoic | Quaternary | Holocene and Pleistocene | | ALVM MRVA | Quaternary alluvium Mississippi River valley alluvium | Mississippi River alluvial aquifer | |
| | | Pleistocene | | TRCS | Loess Terrace deposits | | |
| | | Tertiary | Pliocene | | CRNL GRMF | Citronelle Formation Graham Ferry Formation | Citronelle aquifers |
| | Miocene | | | PCGL HBRG | Pascagoula Formation Hattiesburg Formation | Miocene aquifer system | |
| | | | | CTHLL MOCN | Catahoula Sandstone, upper part Catahoula Sandstone, lower part Deposits of Miocene age | | |
| | | | Oligocene | Vicksburg Group | WRBR MSPG FRHL | | Bucatunna Formation Waynesboro sand lentil Byram Formation Glendon Limestone Marianna Formation Mint Spring Formation Forest Hill Formation |
| | Eocene | | Jackson Group | | | Yazoo Clay Moody's Branch Formation | |
| | | | | Claiborne Group | CCKF SPRT | Cockfield Formation Cook Mountain Formation Sparta Sand Zilpha Clay Winona Sand | Cockfield aquifer Sparta aquifer |
| | | | | TLT | TLT | Tallahatta Formation Neshoba Sand Member Basic City Shale Member | Winona-Tallahatta aquifer |
| | | | | MRDN MUWX | MRDN MUWX | Meridian Sand Member Meridian Sand Member and Wilcox Group, upper part | Meridian-upper Wilcox aquifer |
| | | | | WLCXU | WLCXU | Wilcox Group, upper part Hatchetigbee Formation | |
| | | | Paleocene | Wilcox Group | TSCM WLCXM | Tusahoma Formation Wilcox Group, middle part Nanafalia Formation Fear Springs Member | Lower Wilcox aquifer |
| | | | | | WLCXL | Wilcox Group, lower part | |
| | Midway Group | | | Naheola Formation Porters Creek Clay Mathews Landing Marl Member Clayton Formation | | | |
| | Mesozoic | | Cretaceous | Upper Cretaceous | Selma Group | RPLY | Prairie Bluff Chalk and Owl Creek Formation Ripley Formation |
| | | COFF | | | | Demopolis Chalk Coffee Sand Mooreville Chalk Arcola Limestone Member | Coffee Sand aquifer |
| | | Tuscaloosa Group | | | EUTW TBGB | Eutaw Formation Tombigbee Sand Member | Eutaw-McShan aquifer |
| | | | | | EUTWL MCSN GORD COKR MSSV | Eutaw Formation, lower part McShan Formation Gordo Formation Coker Formation Massive sand | Tuscaloosa aquifer system |
| | | Lower Cretaceous | | | | Undifferentiated | |
| | | Paleozoic | | | | PLZC | Undifferentiated Paleozoic Erathem |

Table 2. Results of aquifer tests in Mississippi

[Specific capacity units, gallons per minute per foot of drawdown. Abbreviations: Co., County; W A, Water Association; IP, Industrial Park; USCE, U.S. Army Corps of Engineers; C C, Chamber of Commerce; NASA MTF, National Aeronautics and Space Administration; Mississippi Test Facility; Exp Sta, Experimental Station; ABC, Atomic Energy Commission; Mfg, Manufacturing]

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|-----------------------|----------------|-------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Adams County | | | | | | | | | | | | | | | |
| 1 | C004 | Natchez | 31 33 30 | 091 22 37 | 09-55 | 612 | MOCN | 65 | 60 | 12 | 440 | 20.0 | 0.0004 | 8,400 | 130 |
| 2 | C014 | Armstrong Tire | 31 33 40 | 091 22 40 | 09-61 | 472 | MOCN | 67 | 61 | 8 | 500 | -- | 0.0002 | 5,000 | 75 |
| 3 | C065 | Johns Manville | 31 32 46 | 091 21 35 | 12-61 | 406 | MOCN | 55 | 40 | 27 | 250 | -- | 0.0001 | 2,000 | 36 |
| 4 | D013 | Johns Manville | 31 32 54 | 091 21 10 | 12-61 | 600 | MOCN | 65 | 60 | 28 | 488 | 9.0 | 0.0001 | 10,000 | 150 |
| 5 | E031 | Adams Co. W A | 31 33 22 | 091 15 24 | 12-84 | 1,188 | CTHLL | 82 | 60 | 8 | 503 | 44.7 | -- | 17,800 | 217 |
| Alcorn County | | | | | | | | | | | | | | | |
| 6 | D010 | Gulf Interstate | 34 57 43 | 088 25 18 | 10-63 | 452 | PLZC | 60 | 50 | 1 | 105 | 4.5 | 0.0003 | 3,700 | 62 |
| 7 | D067 | Corinth | 34 58 47 | 088 22 39 | 06-84 | 447 | PLZC | 76 | 20 | 2 | 201 | 3.2 | -- | 2,300 | 30 |
| 8 | E009 | Union School | 34 55 45 | 088 47 00 | 10-63 | 709 | COFH | 20 | 40 | 2 | 20 | 4 | -- | 800 | 40 |
| 9 | G004 | Corinth | 34 55 45 | 088 31 10 | 10-63 | 455 | PLZC | 50 | 40 | 1 | 810 | 12.0 | -- | 5,300 | 110 |
| 10 | G005 | Corinth | 34 55 45 | 088 31 10 | 11-63 | 455 | PLZC | 80 | 40 | 6 | 880 | 16.0 | 0.0002 | 5,300 | 110 |
| 11 | G018 | Corinth | 34 56 24 | 088 30 32 | 10-63 | 485 | PLZC | 80 | 50 | 1 | 900 | 22.0 | -- | 5,300 | 66 |
| 12 | G058 | Corinth | 34 54 56 | 088 32 24 | 08-62 | 460 | PLZC | 30 | 50 | 18 | 357 | 3.2 | -- | 2,100 | 70 |
| 13 | G059 | Corinth | 34 54 56 | 088 31 30 | 10-63 | 499 | PLZC | 100 | 100 | 20 | 550 | 4.7 | 0.0001 | 2,000 | 20 |
| 14 | G062 | Corinth | 34 55 24 | 088 31 24 | 10-63 | 478 | PLZC | 50 | 50 | 1 | 420 | 2.0 | -- | 3,700 | 74 |
| 15 | H124 | Corinth | 34 54 26 | 088 29 15 | 04-74 | 498 | PLZC | 110 | 80 | 1 | 1,050 | 23.0 | -- | 12,800 | 116 |
| 16 | K052 | Rienzi | 34 45 48 | 088 31 50 | 12-67 | 536 | BUTW | 30 | 54 | 72 | 15 | 1.0 | -- | 400 | 13 |
| 17 | L023 | Alcorn Co. W A | 34 51 06 | 088 24 41 | 08-73 | 536 | PLZC | 130 | 80 | 25 | 357 | 4.2 | -- | 1,280 | 10 |
| 18 | L024 | Alcorn Co. W A | 34 51 15 | 088 24 56 | 08-73 | 490 | PLZC | 100 | 80 | 24 | 369 | 3.4 | -- | 1,430 | 14 |
| Amite County | | | | | | | | | | | | | | | |
| 19 | F016 | Gloster | 31 11 52 | 091 01 17 | 02-68 | 348 | MOCN | 95 | 60 | 1 | 485 | 20.0 | -- | 10,000 | 110 |
| 20 | N001 | Liberty | 31 09 26 | 090 48 33 | 03-55 | 620 | MOCN | 67 | 60 | 8 | 330 | 4.4 | -- | 1,700 | 25 |
| 21 | N003 | Liberty | 31 09 25 | 090 48 32 | 02-68 | 163 | MOCN | 200 | 30 | 2 | 100 | 3.7 | -- | 33,000 | 160 |
| 22 | N108 | Liberty | 31 09 23 | 090 48 25 | 03-78 | 714 | MOCN | 60 | 60 | 3 | 200 | 16.9 | -- | 4,100 | 68 |
| 23 | Q039 | Centreville | 31 04 36 | 091 03 29 | 03-68 | 401 | MOCN | 98 | 60 | 2 | 400 | 18.0 | -- | 5,300 | 54 |
| Attala County | | | | | | | | | | | | | | | |
| 24 | M044 | Kosciusko | 33 03 30 | 089 35 46 | 05-62 | 422 | MUWX | 74 | 60 | 8 | 1,000 | 29.0 | -- | 7,300 | 99 |
| 25 | Q045 | Sallis W A | 32 59 49 | 089 46 12 | 09-84 | 1,000 | WLCXM | 65 | 50 | 4 | 548 | 21.8 | -- | 15,700 | 242 |
| 26 | S019 | Natchez Trace | 32 57 43 | 089 36 53 | 11-63 | 407 | MUWX | 60 | 10 | 1 | 16 | .8 | -- | 1,200 | 20 |
| Bolivar County | | | | | | | | | | | | | | | |
| 27 | E029 | Mound Bayou | 33 52 51 | 090 43 45 | 12-69 | 1,255 | TLLT | 100 | 60 | 1 | 457 | 6.2 | -- | 2,600 | 26 |
| 28 | T131 | Shaw | 33 36 35 | 090 46 05 | 10-85 | 1,471 | SPRT | 85 | 81 | 2 | 267 | 3.4 | -- | 1,400 | 16 |
| Calhoun County | | | | | | | | | | | | | | | |
| 29 | B012 | Mt Comfort W A | 34 07 08 | 089 18 28 | 10-70 | 1,887 | GORD | 35 | 40 | 1 | 125 | 2.6 | -- | 1,800 | 51 |
| 30 | G003 | Pittsboro | 33 56 31 | 089 20 03 | 08-71 | 1,744 | EUTW | 130 | 100 | 2 | 250 | 2.4 | -- | 2,000 | 15 |
| 31 | K101 | Calhoun City | 33 51 18 | 089 17 59 | 11-71 | 1,897 | GORD | 76 | 60 | 2 | 240 | 6.9 | -- | 2,800 | 37 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|-------------------------|----------------|----------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Carroll County | | | | | | | | | | | | | | | |
| 32 | D011 | Greenwood Leflore LP | 33 29 18 | 090 05 08 | 07-76 | 636 | MUWX | 109 | 50 | 2 | 503 | 14.0 | -- | 5,400 | 50 |
| 33 | F025 | North Carrollton | 33 31 11 | 089 54 20 | 07-76 | 736 | WLCXM | 60 | 40 | 1 | 269 | 14.0 | -- | 5,100 | 85 |
| 34 | F059 | Carrollton | 33 30 48 | 089 55 48 | 06-79 | 849 | WLCXM | 86 | 42 | 6 | 160 | .8 | -- | 3,700 | 4 |
| 35 | O029 | Vaiden | 33 19 53 | 089 44 37 | 01-73 | 529 | WLCXM | 90 | 80 | 1 | 503 | 12.0 | -- | 3,900 | 43 |
| 36 | O041 | Vaiden | 33 19 56 | 089 44 30 | 09-84 | 460 | WLCXM | 75 | 40 | 2 | 536 | 9.1 | -- | 5,610 | 75 |
| Chickasaw County | | | | | | | | | | | | | | | |
| 37 | B029 | Houlika Houston | 34 02 04 | 088 59 16 | 07-71 | 1,108 | EUTW | 100 | 100 | 1 | 137 | 6.1 | -- | 6,000 | 60 |
| 38 | F016 | Houston | 33 54 00 | 088 59 50 | 07-71 | 820 | EUTW | 96 | -- | 2 | 60 | -- | 0.0002 | 1,300 | 14 |
| 39 | F018 | Houston | 33 54 00 | 088 59 46 | 05-72 | 1,115 | RPLY | 120 | -- | 2 | 212 | 7.3 | -- | 800 | 7 |
| 40 | K045 | Houston | 33 53 45 | 088 59 45 | 06-71 | 1,048 | EUTW | 90 | 128 | 50 | 226 | 4.2 | -- | 1,200 | 13 |
| Choctaw County | | | | | | | | | | | | | | | |
| 41 | D001 | Natchez Trace | 33 25 04 | 089 16 04 | 05-71 | 247 | WLCXL | 38 | 10 | 1 | 28 | 3.7 | -- | 1,100 | 29 |
| 42 | F003 | French Camp W A | 33 17 13 | 089 23 50 | 05-71 | 690 | WLCXL | 85 | 40 | 1 | 201 | 8.6 | -- | 3,700 | 44 |
| 43 | H001 | Ackerman | 33 18 49 | 089 10 51 | 10-69 | 100 | WLCXL | 55 | 24 | 3 | 335 | 6.2 | 0.0006 | 7,300 | 130 |
| 44 | I034 | Panhandle W A | 33 14 47 | 089 17 29 | 01-76 | 605 | WLCXL | 36 | 40 | 7 | 155 | -- | -- | 100 | 3 |
| 45 | K019 | U S Forest Service | 33 17 03 | 089 08 18 | 09-71 | 325 | WLCXL | 63 | 30 | 24 | 100 | 8.6 | -- | 3,500 | 56 |
| Clalborne County | | | | | | | | | | | | | | | |
| 46 | D005 | Natchez Trace | 32 05 04 | 090 48 24 | 05-68 | 508 | C'THLL | 78 | 61 | 2 | 100 | 10.0 | -- | 9,700 | 120 |
| 47 | D010 | Natchez Trace | 32 05 17 | 090 47 50 | 03-70 | 79 | C'THLL | 25 | 27 | 1 | 20 | -- | 0.0003 | 340 | 14 |
| 48 | L003 | Port Gibson | 31 57 15 | 090 58 54 | 11-61 | 153 | C'THLL | 27 | 30 | 5 | 240 | -- | 0.0002 | 2,000 | 74 |
| 49 | L062 | Patterson W A | 31 51 46 | 090 58 38 | 06-79 | 300 | C'THLL | 60 | 20 | 3 | 50 | 1.9 | -- | 1,100 | 18 |
| 50 | L072 | Port Gibson | 31 56 54 | 090 58 38 | 04-84 | 150 | C'THLL | 44 | 20 | 8 | 76 | 2.7 | -- | 580 | 13 |
| Clarke County | | | | | | | | | | | | | | | |
| 51 | A005 | Southern Natural Gas | 32 08 58 | 088 50 35 | 05-67 | 1,363 | WLCXL | -- | 40 | 2 | 380 | 18.0 | -- | 6,600 | -- |
| 52 | H004 | East Quitman | 32 03 35 | 088 39 36 | 03-69 | 320 | SPRT | 45 | 40 | 1 | 230 | 11.0 | -- | 4,000 | 89 |
| 53 | K008 | East Quitman | 32 05 26 | 088 29 58 | 03-76 | 1,349 | WLCXL | 70 | 40 | 4 | 278 | 5.0 | -- | 2,400 | 34 |
| 54 | L025 | Pachuta | 32 02 32 | 088 52 43 | 03-69 | 836 | MUWX | 62 | 24 | 119 | 55 | .8 | -- | 1,800 | 30 |
| 55 | L051 | Pachuta | 32 02 39 | 088 52 54 | 09-85 | 435 | SPRT | 120 | 40 | 1 | 277 | 32.0 | -- | 19,600 | 163 |
| 56 | M003 | Harmony W A | 31 58 28 | 088 44 20 | 06-67 | 230 | SPRT | 58 | 30 | 6 | 119 | 1.1 | -- | 330 | 6 |
| 57 | M046 | Quitman | 32 02 31 | 088 44 08 | 09-70 | 1,934 | WLCXL | 140 | 90 | 2 | 880 | 40.0 | -- | 16,000 | 110 |
| 58 | M058 | Harmony W A | 31 59 12 | 088 47 20 | 06-73 | 306 | SPRT | 100 | 40 | 4 | 218 | 8.1 | -- | 3,600 | 36 |
| 59 | R012 | Shubuta | 31 57 05 | 088 39 58 | 07-69 | 208 | CCJKF | 20 | 20 | 1 | 60 | .4 | -- | 530 | 26 |
| 60 | R031 | Hiwance W A | 31 51 03 | 088 41 02 | 02-77 | 2,368 | WLCXL | 70 | 70 | 6 | 448 | 22.0 | -- | 11,500 | 164 |
| 61 | S003 | East Quitman | 31 57 24 | 088 30 02 | 01-66 | 171 | SPRT | 48 | 40 | 7 | 106 | 4.1 | -- | 1,400 | 29 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|-------------------------|----------------|----------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Clay County | | | | | | | | | | | | | | | |
| 62 | H002 | West Point | 33 36 15 | 088 39 28 | 11-71 | 388 | TBGB | 80 | 80 | 2 | 369 | -- | -- | 1,700 | 21 |
| 63 | H004 | West Point | 33 36 20 | 088 39 25 | 11-71 | 386 | BTW | 80 | 80 | 2 | 250 | -- | -- | 560 | 7 |
| 64 | H039 | West Point | 33 35 48 | 088 39 42 | 12-63 | 396 | TBGB | 80 | 80 | 24 | 405 | 3.6 | -- | 930 | 12 |
| 65 | H045 | West Point | 33 35 34 | 088 39 41 | 10-63 | 396 | BTW | 80 | 70 | 3 | 305 | 3.8 | -- | 1,200 | 15 |
| 66 | H046 | West Point | 33 37 12 | 088 38 46 | 07-63 | 810 | GOKD | -- | 60 | 17 | 430 | 18.0 | 0.0001 | 21,000 | -- |
| 67 | J037 | Strong Hill W A | 33 36 29 | 088 36 11 | 04-64 | 422 | MCSN | 30 | -- | 2 | 53 | 2.1 | -- | 440 | 15 |
| 68 | J098 | USCB | 33 34 02 | 088 30 10 | 10-72 | 58 | BTW | 10 | 10 | 3 | 4 | .1 | -- | 20 | 2 |
| Coahoma County | | | | | | | | | | | | | | | |
| 69 | A008 | Lula | 34 27 15 | 090 28 31 | 02-74 | 1,083 | MRDN | 100 | 64 | 1 | 225 | 8.6 | -- | 5,300 | 53 |
| 70 | F009 | Jonestown | 34 19 26 | 090 27 03 | 08-74 | 1,100 | MUWX | 160 | 60 | 1 | 285 | 2.4 | -- | 1,200 | 8 |
| 71 | J019 | Clarksdale | 34 10 58 | 090 33 45 | 05-62 | 146 | MRVA | 125 | 50 | 13 | 2,500 | -- | 0.016 | 51,000 | 400 |
| 72 | J020 | Clarksdale | 34 10 59 | 090 33 45 | 05-62 | 292 | SPRI | 65 | 60 | 14 | 2,600 | 18.0 | 0.0006 | 6,600 | 100 |
| Copiah County | | | | | | | | | | | | | | | |
| 73 | D019 | Miss Federal Co-op | 31 57 54 | 090 22 57 | 06-68 | 90 | CRNL | 35 | 20 | 1 | 259 | 6.4 | -- | 2,600 | 74 |
| 74 | D076 | Crystal Springs | 31 58 50 | 090 21 36 | 06-73 | 320 | CTHLL | 26 | 26 | 5 | 220 | 3.1 | -- | 1,100 | 42 |
| 75 | E018 | N E Copiah W A | 31 59 20 | 090 17 42 | 10-70 | 310 | CTHLL | 38 | 40 | 2 | 315 | 6.0 | -- | 1,000 | 26 |
| 76 | J029 | Copiah W A | 31 55 56 | 090 23 18 | 11-65 | 215 | CTHLL | 50 | 40 | 21 | 162 | 7.0 | -- | 4,000 | 80 |
| 77 | J035 | Trucks Crops Station | 31 56 47 | 090 22 43 | 04-68 | 210 | CTHLL | 65 | 41 | 1 | 34 | -- | 0.005 | 930 | 14 |
| 78 | L020 | D & B Gravel | 31 54 14 | 090 13 57 | 08-82 | 380 | CTHLL | 60 | 60 | 2 | 119 | 2.9 | -- | 580 | 10 |
| 79 | O005 | Copiah W A | 31 49 07 | 090 30 09 | 08-68 | 465 | CTHLL | 50 | 40 | 8 | 154 | 5.5 | -- | 1,400 | 28 |
| 80 | P059 | Hazlehurst | 31 51 32 | 090 20 48 | 05-68 | 291 | CTHLL | 55 | 40 | 2 | 510 | 28.0 | 0.0003 | 8,000 | 140 |
| 81 | P064 | Hazlehurst | 31 51 09 | 090 20 45 | 10-67 | 355 | CTHLL | 70 | 60 | 10 | 350 | 14.0 | 0.0004 | 4,500 | 64 |
| 82 | Q011 | Hazlehurst | 31 51 22 | 090 20 33 | 11-67 | 346 | CTHLL | 60 | 60 | 9 | 350 | 22.0 | 0.0003 | 5,800 | 97 |
| Covington County | | | | | | | | | | | | | | | |
| 83 | B020 | Mount Olive | 31 45 48 | 089 39 11 | 11-71 | 391 | CTHLL | 50 | 44 | 2 | 620 | 10.0 | -- | 2,400 | 48 |
| 84 | F002 | Collins | 31 38 40 | 089 33 18 | 05-67 | 217 | CTHLL | 100 | 60 | 5 | 435 | 22.0 | 0.0004 | 4,900 | 49 |
| 85 | F003 | Sandersons Farm | 31 39 04 | 089 33 56 | 05-67 | 741 | CTHLL | -- | -- | 1 | 740 | 37.0 | -- | 10,000 | -- |
| 86 | F005 | Sandersons Farm | 31 38 59 | 089 33 50 | 02-67 | 164 | CTHLL | 100 | -- | 4 | 711 | -- | 0.0003 | 2,200 | 22 |
| 87 | K001 | Seminary | 31 33 44 | 089 29 41 | 11-66 | 249 | CTHLL | 95 | 67 | 2 | 351 | 29.0 | -- | 10,000 | 110 |
| 88 | L018 | Southwest Jones | 31 33 48 | 089 24 26 | 04-82 | 898 | CTHLL | 20 | 50 | 2 | 203 | 1.2 | -- | 650 | 32 |
| 89 | N001 | Sanford | 31 29 45 | 089 25 45 | 04-66 | 802 | CTHLL | 43 | 30 | 1 | 111 | -- | -- | 3,300 | 77 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|------------------------|----------------|---------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Forrest County | | | | | | | | | | | | | | | |
| 90 | A023 | Hattiesburg | 31 21 09 | 089 22 33 | 03-65 | 752 | C'THLL | 50 | -- | 4 | 84 | 7.3 | -- | 3,600 | 72 |
| 91 | B017 | Hattiesburg | 31 21 07 | 089 20 06 | 01-65 | 607 | C'THLL | 80 | -- | 9 | 995 | 9.7 | 0.0003 | 6,400 | 80 |
| 92 | B102 | Glendale W A | 31 24 56 | 089 19 38 | 10-77 | 895 | C'THLL | 50 | 40 | 3 | 545 | 9.1 | -- | 4,400 | 88 |
| 93 | B105 | Fenix & Sessions | 31 22 08 | 089 15 44 | 11-77 | 215 | MOCN | 100 | 100 | 6 | 1,005 | 22.9 | -- | 10,600 | 106 |
| 94 | B108 | Hattiesburg Storage | 31 22 43 | 089 15 15 | 05-78 | 312 | MOCN | 100 | 100 | 2 | 1,288 | 29.5 | -- | 12,600 | 126 |
| 95 | C068 | Petal | 31 21 52 | 089 14 07 | 02-81 | 708 | C'THLL | 85 | 20 | 4 | 43 | 2.7 | -- | 3,900 | 46 |
| 96 | D001 | Hattiesburg | 31 16 01 | 089 14 49 | 06-42 | 194 | HBRG | 100 | 30 | 3 | 297 | 24.0 | 0.0001 | 16,000 | 160 |
| 97 | D004 | Hattiesburg | 31 18 36 | 089 17 01 | 04-64 | 485 | C'THLL | 130 | 50 | 12 | 1,030 | 40.0 | -- | 22,000 | 170 |
| 98 | D005 | Hattiesburg | 31 18 47 | 089 17 02 | 04-64 | 678 | C'THLL | 80 | 50 | 11 | 1,050 | 13.0 | 0.0001 | 4,000 | 50 |
| 99 | D029 | Petal | 31 19 58 | 089 15 35 | 11-62 | 134 | TRCS | 100 | 31 | 12 | 750 | -- | 0.0006 | 26,000 | 260 |
| 100 | D038 | Hercules Power | 31 20 15 | 089 18 42 | 09-65 | 687 | C'THLL | 105 | 96 | 8 | 1,016 | 7.5 | -- | 2,000 | 18 |
| 101 | D039 | Coastal Chemical | 31 20 20 | 089 17 37 | 05-65 | 353 | MOCN | 150 | 40 | 2 | 483 | 5.7 | -- | 9,300 | 62 |
| 102 | D042 | Palmer's Crossing | 31 16 56 | 089 17 02 | 03-66 | 642 | C'THLL | 216 | 42 | 2 | 285 | 20.0 | 0.0002 | 14,000 | 65 |
| 103 | D045 | Central W A | 31 17 35 | 089 16 50 | 04-66 | 694 | C'THLL | 90 | 40 | 1 | 206 | 12.0 | -- | 5,200 | 58 |
| 104 | D046 | Central W A | 31 17 38 | 089 16 58 | 04-66 | 672 | C'THLL | 90 | 40 | 1 | 252 | 11.0 | 0.0002 | 5,200 | 58 |
| 105 | G014 | Camp Shelby | 31 11 27 | 089 12 19 | 05-43 | 402 | HBRG | 86 | 80 | 73 | 550 | 29.0 | 0.0004 | 9,300 | 110 |
| 106 | G016 | Camp Shelby | 31 11 00 | 089 12 00 | 05-43 | 409 | HBRG | 80 | 80 | 26 | 532 | 19.0 | -- | 9,300 | -- |
| 107 | G022 | Camp Shelby | 31 11 00 | 089 12 00 | 05-43 | 404 | HBRG | 83 | 80 | 31 | 522 | 26.0 | -- | 9,200 | 110 |
| 108 | H006 | Paul B Johnson | 31 08 51 | 089 14 51 | 01-68 | 330 | MOCN | 47 | 20 | 1 | 80 | 4.7 | -- | 4,500 | 96 |
| 109 | L017 | Brooklyn W A | 31 04 06 | 089 11 32 | 05-66 | 580 | HBRG | 170 | 40 | 1 | 240 | 22.0 | -- | 30,000 | 180 |
| 110 | M035 | Carnes Utility | 30 59 09 | 089 15 22 | 10-70 | 820 | C'THLL | 70 | 40 | 2 | 145 | -- | -- | 4,800 | 68 |
| Franklin County | | | | | | | | | | | | | | | |
| 111 | G001 | Providence W A | 31 27 56 | 090 58 27 | 01-67 | 345 | MOCN | 125 | 40 | 24 | 133 | 12.0 | -- | 11,000 | 88 |
| 112 | H017 | Meadville | 31 28 00 | 090 53 00 | 11-68 | 244 | MOCN | 70 | 40 | 3 | 317 | 7.8 | -- | 2,100 | 30 |
| 113 | J003 | Bude | 31 28 10 | 090 50 20 | 04-68 | 237 | MOCN | 68 | 53 | 1 | 230 | 18.0 | -- | 4,500 | 66 |
| George County | | | | | | | | | | | | | | | |
| 114 | D014 | Rocky Creek W A | 30 55 22 | 088 30 09 | 04-73 | 625 | MOCN | 105 | 65 | 4 | 173 | 9.1 | -- | 4,400 | 42 |
| Greene County | | | | | | | | | | | | | | | |
| 115 | B002 | U S Forest Service | 31 23 25 | 088 40 09 | 12-66 | 583 | C'THLL | 48 | 30 | 2 | 18 | 5.3 | -- | 4,000 | 83 |
| 116 | D001 | State Line | 31 26 01 | 088 28 02 | 11-64 | 252 | C'THLL | 58 | 42 | 1 | 70 | 15.0 | -- | 3,600 | 62 |
| 117 | P001 | Leakesville | 31 09 20 | 088 33 20 | 01-65 | 140 | HBRG | 28 | 30 | 2 | 75 | .9 | -- | 370 | 13 |
| 118 | R020 | Leaf W A | 31 01 51 | 088 47 39 | 02-76 | 338 | MOCN | 25 | 26 | 82 | 60 | .7 | -- | 100 | 4 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|-----------------------|----------------|---------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Grenada County | | | | | | | | | | | | | | | |
| 119 | H005 | Poor House W A | 33 41 52 | 089 55 58 | 06-71 | 499 | MUWX | 50 | 42 | -- | 130 | 7.4 | -- | 2,500 | 50 |
| 120 | H018 | H W Crawford | 33 47 15 | 089 50 45 | 05-71 | 455 | MUWX | 55 | 40 | 2 | 44 | 3.9 | -- | 2,600 | 48 |
| 121 | H009 | Grenada | 33 46 39 | 089 48 00 | 05-72 | 172 | MUWX | 40 | 40 | 2 | 480 | 20.0 | -- | 13,000 | 325 |
| 122 | H022 | U S Army | 33 41 09 | 089 44 30 | -- | 445 | WLCXM | 45 | 40 | -- | 200 | -- | -- | 330 | 7 |
| 123 | H023 | U S Army | 33 42 30 | 089 45 48 | -- | 140 | MUWX | 78 | 50 | -- | 350 | -- | -- | 7,400 | 95 |
| 124 | H024 | U S Army | 33 42 15 | 089 44 27 | -- | 118 | MUWX | 90 | 30 | -- | 350 | -- | -- | 9,300 | 100 |
| 125 | H060 | McQuay Company | 33 43 18 | 089 46 48 | 04-69 | 530 | WLCXM | 80 | 80 | 4 | 578 | 6.9 | -- | 1,800 | 23 |
| 126 | H079 | R H Alexander | 33 47 10 | 089 42 15 | 05-71 | 563 | WLCXM | 23 | -- | 2 | 84 | 1.2 | -- | 530 | 23 |
| Hancock County | | | | | | | | | | | | | | | |
| 127 | H005 | NASA MIF | 30 23 08 | 089 27 54 | 04-65 | 644 | GRMF | 110 | 60 | 2 | 300 | 20.0 | 0.0002 | 14,000 | 130 |
| 128 | H004 | NASA MIF | 30 21 40 | 089 34 59 | 07-64 | 1,873 | PCGL | 180 | 70 | 24 | 3,550 | 12.0 | -- | 13,000 | 74 |
| 129 | H006 | NASA MIF | 30 21 40 | 089 35 14 | 10-64 | 1,695 | PCGL | 120 | 110 | 24 | 4,900 | 26.0 | -- | 26,000 | 220 |
| 130 | H007 | NASA MIF | 30 22 06 | 089 35 06 | 08-64 | 1,434 | PCGL | 87 | 63 | 30 | 1,018 | 15.0 | -- | 10,000 | 110 |
| 131 | H008 | NASA MIF | 30 21 26 | 089 35 14 | 05-65 | 672 | GRMF | 170 | 140 | 24 | 5,885 | 47.0 | 0.0002 | 16,000 | 94 |
| 132 | H011 | NASA MIF | 30 21 18 | 089 35 15 | 03-67 | 676 | GRMF | 60 | 30 | 8 | 141 | 2.7 | -- | 6,100 | 100 |
| 133 | H012 | NASA MIF | 30 21 18 | 089 35 15 | 03-67 | 599 | GRMF | 70 | 30 | 8 | 141 | 3.8 | -- | 1,800 | 26 |
| 134 | H013 | NASA MIF | 30 21 18 | 089 35 15 | 03-67 | 491 | GRMF | 41 | 30 | 8 | 141 | 6.4 | -- | 5,300 | 130 |
| 135 | H014 | NASA MIF | 30 21 18 | 089 35 15 | 06-68 | 144 | CRNL | 60 | 60 | 47 | 510 | 46.0 | 0.0001 | 11,000 | 180 |
| 136 | H034 | L W Brooks | 30 18 21 | 089 33 49 | 04-65 | 1,323 | PCGL | 80 | -- | 1 | 50 | .9 | -- | 6,200 | 78 |
| 137 | H042 | U S Army Ammo Plant | 30 22 57 | 089 36 05 | 04-81 | 680 | GRMF | 196 | 180 | 8 | 1,100 | 50.2 | -- | 20,100 | 102 |
| 138 | H043 | U S Army Ammo Plant | 30 22 57 | 089 36 05 | 04-81 | 688 | GRMF | 190 | 185 | 8 | 3,100 | 47.4 | -- | 21,500 | 113 |
| 139 | K005 | Bay St. Louis | 30 18 08 | 089 20 40 | 08-75 | 1,197 | PCGL | 100 | 60 | 2 | 271 | 8.5 | -- | 13,400 | 134 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | I-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|------------------------|----------------|----------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Harrison County | | | | | | | | | | | | | | | |
| 140 | C018 | Experimental Forest | 30 37 32 | 089 03 22 | 01-65 | 638 | PCGL | 50 | 50 | 1 | 150 | 17.0 | -- | 10,000 | 200 |
| 141 | C081 | Sancier Utility | 30 38 09 | 089 08 11 | 02-71 | 776 | PCGL | 40 | 30 | 2 | 150 | 2.9 | -- | 1,000 | 25 |
| 142 | G019 | U S Fish Hatchery | 30 31 15 | 089 07 09 | 01-65 | 429 | GRMF | 85 | -- | 1 | 32 | 10.0 | -- | 8,500 | 100 |
| 143 | G020 | U S Fish Hatchery | 30 31 15 | 089 07 09 | 01-65 | 790 | GRMF | 85 | -- | 170 | 60 | 6.0 | -- | 8,100 | 95 |
| 144 | G024 | U S Fish Hatchery | 30 31 15 | 089 07 09 | 01-65 | 790 | PCGL | 120 | -- | 100 | 75 | 31.0 | 0.0003 | 14,000 | 120 |
| 145 | L002 | Gulfpport | 30 22 20 | 089 05 54 | 10-64 | 815 | GRMF | 60 | 60 | 4 | 1,100 | 19.0 | -- | 6,800 | 110 |
| 146 | L014 | Gulfpport | 30 23 30 | 089 05 30 | 10-64 | 763 | GRMF | 60 | 60 | 5 | 965 | 12.0 | -- | 11,000 | 180 |
| 147 | L015 | Gulfpport | 30 22 30 | 089 03 42 | 08-64 | 752 | GRMF | 76 | -- | 72 | 960 | 32.0 | -- | 8,600 | 110 |
| 148 | L016 | Gulfpport | 30 23 36 | 089 04 54 | 04-66 | 815 | GRMF | 82 | 70 | 2 | 975 | 25.0 | 0.0002 | 7,300 | 89 |
| 149 | L017 | Gulfpport | 30 22 06 | 089 07 45 | 03-66 | 848 | GRMF | 123 | -- | 100 | 500 | 13.0 | -- | 4,900 | 40 |
| 150 | L034 | Harrison County | 30 26 02 | 089 05 13 | 01-68 | 584 | MOCN | 92 | 60 | 8 | 602 | 19.0 | -- | 6,400 | 70 |
| 151 | L035 | Dedeaux Utility | 30 26 45 | 089 03 27 | 05-68 | 730 | MOCN | 120 | 50 | 2 | 280 | 8.9 | -- | 9,300 | 78 |
| 152 | L084 | Gulfpport Airport | 30 24 40 | 089 03 30 | 08-64 | 645 | MOCN | 100 | 63 | 3 | 860 | 16.0 | 0.0002 | 3,600 | 36 |
| 153 | L116 | Orange Grove Utility | 30 27 30 | 089 05 30 | 05-68 | 437 | MOCN | -- | 50 | 6 | 125 | -- | -- | 2,100 | -- |
| 154 | L147 | Gulfpport | 30 22 24 | 089 05 00 | 03-66 | 953 | PCGL | 92 | 71 | 1 | 665 | -- | 0.0003 | 2,400 | 26 |
| 155 | L149 | Gulfpport | 30 22 24 | 089 05 00 | 03-66 | 1,242 | PCGL | 80 | -- | 1 | 710 | -- | -- | 12,000 | 150 |
| 156 | L160 | U S Navy | 30 22 52 | 089 06 20 | 11-65 | 1,196 | PCGL | 43 | 29 | 1 | 822 | 12.0 | -- | 8,800 | 200 |
| 157 | L161 | U S Navy | 30 22 50 | 089 07 18 | 11-65 | 850 | GRMF | 38 | 30 | 1 | 526 | 5.0 | -- | 2,100 | 55 |
| 158 | L162 | U S Navy | 30 22 51 | 089 07 29 | 11-65 | 757 | GRMF | 88 | 60 | 2 | 500 | 23.0 | -- | 10,000 | 110 |
| 159 | L430 | U S Navy | 30 22 51 | 089 06 29 | 11-78 | 746 | GRMF | 65 | 60 | 8 | 1,100 | 14.7 | -- | 3,900 | 60 |
| 160 | L433 | U S Navy | 30 22 49 | 089 07 37 | 07-78 | 720 | GRMF | 60 | 71 | 8 | 1,001 | 9.8 | -- | 2,900 | 50 |
| 161 | M002 | Biloxi | 30 24 30 | 089 00 00 | 12-64 | 1,207 | PCGL | 116 | 80 | 1 | 235 | 13.0 | -- | 13,000 | 110 |
| 162 | M004 | Biloxi | 30 23 42 | 088 56 30 | 12-64 | 1,200 | PCGL | 100 | 80 | 1 | 460 | 26.0 | -- | 13,000 | 130 |
| 163 | M023 | Mississippi Power | 30 26 11 | 089 01 48 | 12-64 | 755 | GRMF | 87 | 60 | 7 | 380 | 14.0 | 0.0004 | 14,000 | 160 |
| 164 | M024 | Mississippi Power | 30 26 15 | 089 01 15 | 12-64 | 845 | GRMF | 90 | 60 | 1 | 317 | 27.0 | 0.0006 | 16,000 | 160 |
| 165 | M040 | Biloxi | 30 24 27 | 088 58 00 | 04-66 | 854 | GRMF | 80 | 50 | 1 | 350 | 20.0 | -- | 16,000 | 200 |
| 166 | M049 | Reichhold Chemical | 30 25 40 | 089 01 20 | 11-65 | 745 | GRMF | 72 | 60 | 1 | 527 | 18.0 | -- | 5,400 | 75 |
| 167 | M064 | U S Air Force | 30 24 13 | 088 54 43 | 11-64 | 620 | GRMF | 100 | 40 | 4 | 620 | 18.0 | 0.0003 | 13,000 | 130 |
| 168 | M068 | U S Air Force | 30 24 39 | 088 55 09 | 11-64 | 618 | GRMF | 60 | 40 | 1 | 560 | 10.0 | 0.0004 | 8,000 | 130 |
| 169 | M075 | U S Air Force | 30 24 51 | 088 55 05 | 11-64 | 610 | GRMF | 64 | 40 | 2 | 700 | 19.0 | -- | 8,200 | 120 |
| 170 | M076 | U S Air Force | 30 24 32 | 088 54 16 | 11-64 | 630 | GRMF | 100 | 40 | 2 | 740 | 22.0 | -- | 8,900 | 89 |
| 171 | M078 | U S Air Force | 30 24 01 | 088 54 33 | 11-64 | 641 | GRMF | 100 | 40 | -- | 720 | 16.0 | -- | 9,700 | 97 |
| 172 | M079 | U S Air Force | 30 23 54 | 088 55 51 | 11-64 | 640 | GRMF | 80 | 40 | 2 | 800 | 25.0 | -- | 10,000 | 130 |
| 173 | M115 | Biloxi | 30 24 10 | 088 53 36 | 12-64 | 1,226 | PCGL | 124 | -- | 2 | 900 | 12.0 | -- | 13,000 | 100 |
| 174 | M119 | Biloxi | 30 24 56 | 088 54 13 | 12-64 | 1,182 | PCGL | 100 | 65 | 2 | 200 | 29.0 | -- | 12,000 | 120 |
| 175 | M147 | Mavar Packing | 30 23 28 | 088 52 00 | 04-66 | 1,002 | PCGL | 80 | 60 | 1 | 950 | 17.0 | -- | 11,000 | 140 |
| 176 | M550 | Biloxi | 30 23 51 | 088 54 07 | 06-73 | 634 | GRMF | 108 | 70 | 2 | 690 | -- | -- | 10,300 | 95 |
| 177 | M576 | Biloxi | 30 24 04 | 088 58 55 | 06-73 | 848 | GRMF | 105 | 60 | 2 | 1,000 | 31.0 | -- | 13,000 | 124 |
| 178 | N003 | Pass Christian | 30 18 56 | 089 14 53 | 03-66 | 1,111 | PCGL | 57 | 60 | 1 | 74 | 5.9 | -- | 3,200 | 56 |
| 179 | O001 | Long Beach | 30 20 45 | 089 10 30 | 03-66 | 926 | GRMF | -- | 60 | 3 | 586 | -- | -- | 76,000 | -- |
| 180 | O006 | Pass Christian | 30 19 36 | 089 14 24 | 03-66 | 891 | GRMF | 95 | 50 | 1 | 435 | -- | -- | 18,000 | 190 |
| 181 | O008 | Long Beach | 30 22 00 | 089 10 06 | 04-66 | 611 | GRMF | 50 | 40 | 1 | 340 | 11.0 | -- | 7,400 | 150 |
| 182 | O011 | Long Beach | 30 22 15 | 089 10 20 | 04-66 | 590 | GRMF | 57 | 40 | 1 | 330 | 18.0 | -- | 13,000 | 230 |
| 183 | O172 | Long Beach | 30 22 00 | 089 13 00 | 01-65 | 848 | GRMF | 240 | 80 | 1 | 385 | -- | 0.002 | 84,000 | 350 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|-------------------------|----------------|---------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Hinds County | | | | | | | | | | | | | | | |
| 184 | G059 | Clinton | 32 21 12 | 090 20 40 | 07-86 | 893 | CCKF | 168 | 80 | 2 | 260 | 15.0 | -- | 7,800 | 46 |
| 185 | G084 | Jackson | 32 18 45 | 090 16 58 | 02-68 | 1,020 | SPRT | 180 | 60 | 25 | 608 | 15.0 | -- | 6,000 | 33 |
| 186 | G125 | Shady Oaks | 32 19 45 | 090 15 22 | 11-45 | 852 | SPRT | 80 | -- | 15 | -- | -- | 0.0002 | 5,600 | 70 |
| 187 | H052 | Mississippi Power | 32 21 30 | 090 10 42 | 08-48 | 694 | SPRT | 69 | 60 | 12 | 580 | 18.0 | 0.0001 | 2,900 | 42 |
| 188 | H054 | Mississippi Power | 32 21 30 | 090 10 42 | 08-48 | 776 | SPRT | 108 | 80 | 120 | 565 | 25.0 | -- | 8,600 | 80 |
| 189 | H055 | Mississippi Power | 32 21 30 | 090 10 42 | 05-60 | 796 | SPRT | 130 | 75 | 6 | 400 | 19.0 | -- | 10,000 | 77 |
| 190 | H104 | Hinds Water Company | 32 22 36 | 090 08 48 | 10-57 | 810 | SPRT | 73 | -- | 24 | 150 | 8.0 | 0.00003 | 4,500 | 62 |
| 191 | H146 | Jackson | 32 22 20 | 090 14 00 | 04-68 | 746 | SPRT | 110 | 66 | 38 | 608 | 12.0 | -- | 3,300 | 30 |
| 192 | H149 | Jackson | 32 23 06 | 090 09 42 | 09-67 | 687 | SPRT | 145 | 60 | 32 | 602 | 26.0 | -- | 13,000 | 90 |
| 193 | H181 | Jackson Plating | 32 20 02 | 090 11 14 | 01-83 | 791 | SPRT | 60 | 40 | 3 | 159 | 3.0 | -- | 4,000 | 67 |
| 194 | H187 | Jackson Zoo | 32 19 09 | 090 13 22 | 03-87 | 815 | SPRT | 32 | 20 | 7 | 38 | 2.5 | -- | 2,000 | 63 |
| 195 | H188 | Jackson Zoo | 32 19 09 | 090 13 22 | 04-87 | 628 | SPRT | 36 | 20 | 8 | 165 | 2.7 | -- | 1,800 | 50 |
| 196 | L005 | Raymond | 32 15 21 | 090 24 51 | 07-62 | 1,185 | CCKF | 125 | -- | 1 | 239 | 4.0 | 0.0001 | 4,600 | 37 |
| 197 | L064 | W. R. Freeman | 32 16 40 | 090 21 58 | 02-80 | 160 | MSFG | 56 | 30 | 2 | 60 | 1.7 | -- | 1,500 | 27 |
| 198 | M030 | Waterways Exp Sta | 32 18 15 | 090 17 48 | 02-57 | 637 | CCKF | 55 | -- | 12 | 150 | -- | 0.00007 | 1,300 | 24 |
| 199 | M099 | Jackson | 32 17 16 | 090 17 08 | 07-68 | 1,120 | SPRT | 100 | 65 | 27 | 608 | 22.0 | -- | 4,700 | 47 |
| 200 | M100 | Jackson | 32 13 46 | 090 15 14 | 01-68 | 760 | CCKF | 80 | 65 | 26 | 620 | 26.0 | -- | 2,100 | 26 |
| 201 | M112 | Jackson | 32 14 23 | 090 18 02 | 07-80 | 1,398 | SPRT | 120 | 100 | 26 | 1,260 | -- | -- | 4,700 | 39 |
| 202 | N003 | Southern United Ice | 32 17 30 | 090 11 24 | 12-45 | 600 | SPRT | 60 | 475 | 1 | 82 | 11.0 | -- | 4,800 | 80 |
| 203 | N019 | Filtrol Corporation | 32 16 00 | 090 12 30 | 09-58 | 805 | SPRT | 65 | 40 | 6 | 100 | -- | 0.0001 | 2,900 | 45 |
| 204 | N045 | Jackson Laundry | 32 17 39 | 090 10 50 | 11-45 | 774 | SPRT | 160 | -- | 2 | 92 | -- | 0.0005 | 6,600 | 41 |
| 205 | N139 | Miss Cotton Oil | 32 18 12 | 090 11 36 | 01-46 | 734 | SPRT | 65 | -- | -- | 247 | -- | 0.00004 | 4,000 | 61 |
| 206 | P076 | Oakley School | 32 13 06 | 090 30 09 | 02-80 | 230 | FRHL | 25 | 30 | 2 | 23 | 3 | -- | 40 | 2 |
| 207 | S002 | Utica | 32 05 40 | 090 36 03 | 12-57 | 307 | C'RHLL | -- | 40 | 8 | 180 | 14.0 | -- | 2,500 | -- |
| 208 | V033 | Terry | 32 05 44 | 090 17 39 | 10-81 | 473 | FRHL | 38 | 37 | 1 | 205 | 5.5 | -- | 3,400 | 89 |
| 209 | V057 | South Terry W A | 32 05 00 | 090 18 02 | 04-85 | 510 | FRHL | 38 | 30 | 1 | 198 | 2.7 | -- | 1,400 | 37 |
| Holmes County | | | | | | | | | | | | | | | |
| 210 | L046 | Lexington | 33 06 31 | 090 03 15 | 05-63 | 1,125 | MUWX | 100 | 60 | 2 | 227 | 4.0 | 0.0001 | 8,200 | 82 |
| 211 | T004 | Durant | 33 04 43 | 089 51 25 | 05-63 | 700 | MUWX | 130 | -- | 2 | 440 | -- | 0.006 | 6,000 | 46 |
| Humphreys County | | | | | | | | | | | | | | | |
| 212 | F013 | Belzoni | 33 10 26 | 090 29 22 | 05-63 | 860 | SPRT | 95 | -- | 7 | 800 | 46.0 | 0.0002 | 12,000 | 130 |
| Itawamba County | | | | | | | | | | | | | | | |
| 213 | G035 | Dorsey W A | 34 15 19 | 088 31 15 | 06-67 | 305 | EUTW | 100 | 60 | 2 | 170 | 3.9 | -- | 1,300 | 13 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|-------------------------------|----------------|-------------------|----------|-----------|--------------|-------------------|-----------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Jackson County | | | | | | | | | | | | | | | |
| 214 | N096 | Coast Water Works | 30 24 38 | 088 48 06 | 02-68 | 853 | PCGL | 154 | 60 | 1 | 411 | -- | -- | 8,200 | 53 |
| 215 | P002 | J Bounds | 30 28 12 | 088 32 35 | 05-59 | 450 | GRMH | -- | 20 | 24 | 19 | 10.0 | 0.0003 | 5,400 | -- |
| 216 | P054 | Moss Point | 30 24 22 | 088 32 12 | 11-58 | 829 | PCGL | 80 | 40 | 8 | 455 | 17.0 | 0.0007 | 8,000 | 100 |
| 217 | P069 | Pascagoula | 30 22 41 | 088 32 17 | 10-67 | 302 | GRMH | 80 | -- | -- | 320 | 6.5 | -- | 3,000 | 38 |
| 218 | P114 | Quaker Oats | 30 21 56 | 088 33 48 | 08-59 | 300 | GRMH | 100 | -- | 9 | 280 | -- | 0.0005 | 7,200 | 72 |
| 219 | P124 | Pascagoula | 30 21 34 | 088 33 08 | 10-67 | 801 | PCGL | 90 | 80 | -- | 625 | 9.8 | 0.0003 | 7,000 | 78 |
| 220 | P150 | Pascagoula | 30 21 15 | 088 33 04 | 10-67 | 785 | PCGL | 97 | 60 | 1 | 840 | 19.0 | -- | 6,900 | 71 |
| 221 | F291 | Ingalls Shipyard | 30 20 00 | 088 34 15 | 05-69 | 280 | GRMH | 50 | 42 | 1 | 492 | 7.8 | -- | 2,400 | 48 |
| 222 | P349 | Ingalls Shipyard | 30 21 01 | 088 32 48 | 06-72 | 782 | PCGL | 80 | 60 | 1 | 664 | 8.2 | -- | 4,900 | 61 |
| 223 | Q101 | H K Porter | 30 19 55 | 088 30 13 | 09-58 | 374 | GRMH | 50 | 60 | 8 | 140 | 1.4 | -- | 3,200 | 64 |
| 224 | Q057 | Moss Point | 30 24 34 | 088 31 18 | 05-59 | 954 | PCGL | 56 | -- | 8 | 500 | 13.0 | 0.0001 | 8,000 | 140 |
| 225 | Q108 | Coastal Chemical | 30 21 04 | 088 30 03 | 01-58 | 350 | GRMH | 60 | 50 | 8 | 450 | 10.0 | -- | 2,400 | 40 |
| 226 | Q111 | Coastal Chemical | 30 21 00 | 088 29 55 | 11-58 | 351 | GRMH | 64 | 50 | 8 | 450 | 12.0 | 0.0003 | 2,900 | 45 |
| 227 | Q115 | Jackson County | 30 21 44 | 088 29 44 | 06-60 | 197 | CRNL | 95 | 40 | 456 | 347 | 11.0 | 0.0004 | 3,000 | 84 |
| 228 | Q135 | Standard Oil | 30 20 42 | 088 29 23 | 05-62 | 350 | GRMH | 90 | 50 | 48 | 602 | 15.0 | 0.0004 | 3,000 | 34 |
| 229 | Q137 | Standard Oil | 30 21 04 | 088 29 27 | 06-62 | 387 | GRMH | 70 | 75 | 48 | 602 | 11.0 | 0.0002 | 3,700 | 53 |
| 230 | Q417 | Moss Point | 30 23 56 | 088 31 24 | 03-83 | 802 | PCGL | 70 | 50 | 24 | 503 | 12.7 | -- | 10,400 | 149 |
| Jasper County | | | | | | | | | | | | | | | |
| 231 | D012 | Rose Hill W A | 32 08 33 | 088 59 34 | 05-67 | 886 | TSCM | 54 | 50 | 2 | 200 | 1.2 | -- | 260 | 5 |
| 232 | E001 | Louin | 32 04 00 | 089 15 30 | 11-68 | 420 | CCKF | 55 | 40 | 1 | 137 | 2.8 | -- | 1,000 | 19 |
| 233 | I007 | Bay Springs | 31 59 00 | 089 17 38 | 01-67 | 1,008 | SPRT | 70 | 80 | 2 | 1,005 | 20.0 | -- | 7,200 | 100 |
| 234 | L004 | Paulding | 32 01 30 | 089 01 30 | 02-69 | 810 | SPRT | 150 | 40 | 1 | 305 | 6.5 | -- | 10,000 | 67 |
| 235 | N002 | Stringer W A | 31 52 43 | 089 15 28 | 06-65 | 913 | CCKF | 80 | 55 | 22 | 215 | 2.8 | -- | 9,300 | 120 |
| 236 | P013 | Philadelphia W A | 31 57 20 | 089 03 33 | 01-70 | 610 | CCKF | 95 | 95 | 2 | 295 | 13.0 | -- | 8,000 | 84 |
| 237 | Q029 | Beaver Dam W A | 31 54 58 | 088 56 05 | 01-71 | 876 | SPRT | 80 | 90 | 2 | 167 | 1.3 | -- | 660 | 8 |
| Jefferson County | | | | | | | | | | | | | | | |
| 238 | H002 | Fayette | 31 42 40 | 091 03 40 | 09-61 | 272 | MOCN | 51 | -- | 8 | 400 | 11.0 | 0.0003 | 3,700 | 73 |
| Jefferson Davis County | | | | | | | | | | | | | | | |
| 239 | E003 | Prentiss | 31 35 40 | 089 52 16 | 05-67 | 200 | MOCN | 270 | 70 | 1 | 400 | 10.0 | -- | 46,000 | 170 |
| 240 | F002 | Carson | 31 32 16 | 089 47 38 | 02-66 | 380 | MOCN | -- | 40 | 8 | 201 | 70.0 | -- | 53,000 | -- |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|-------------------------|----------------|-----------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Jones County | | | | | | | | | | | | | | | |
| 241 A003 | | Soso Community | 31 45 15 | 089 16 12 | 08-65 | 470 | C1HLL | 120 | -- | 8 | 162 | 6.8 | -- | 10,000 | 83 |
| 242 B024 | | Shady Grove W A | 31 44 59 | 089 09 15 | 08-65 | 370 | C1HLL | 50 | 30 | 8 | 162 | 5.5 | 0.0002 | 9,300 | 190 |
| 243 B025 | | Shady Grove W A | 31 45 07 | 089 09 10 | 08-65 | 360 | C1HLL | 50 | 30 | 8 | 166 | 12.0 | 0.0002 | 9,300 | 190 |
| 244 B075 | | Mathews Moss W A | 31 46 27 | 089 13 30 | 06-80 | 314 | C1HLL | 40 | 40 | 4 | 263 | 5.9 | -- | 4,600 | 115 |
| 245 B079 | | Calhoun W A | 31 44 15 | 089 12 02 | 08-81 | 392 | C1HLL | 50 | 50 | 3 | 300 | 6.4 | -- | 5,700 | 114 |
| 246 C044 | | Powers W A | 31 41 55 | 089 05 50 | 07-65 | 385 | C1HLL | 50 | 45 | 8 | 225 | 12.0 | -- | 8,000 | 160 |
| 247 C046 | | Powers W A | 31 41 51 | 089 05 59 | 04-66 | 385 | C1HLL | 63 | 35 | 1 | 204 | 4.3 | -- | 7,300 | 110 |
| 248 C067 | | Laurel | 31 43 49 | 089 07 42 | 08-65 | 322 | C1HLL | 70 | -- | 4 | 950 | 29.0 | -- | 9,600 | 140 |
| 249 C160 | | Sharon W A | 31 45 30 | 089 06 31 | 04-85 | 817 | CCCKF | 56 | 30 | 5 | 37 | 8 | -- | 510 | 9 |
| 250 D072 | | Myrick Mill Creek W A | 31 41 52 | 089 00 42 | 11-66 | 347 | C1HLL | 84 | 30 | 2 | 165 | 5.8 | 0.0003 | 3,600 | 43 |
| 251 D073 | | Myrick Mill Creek W A | 31 41 56 | 089 00 36 | 11-66 | 352 | C1HLL | 84 | 30 | 1 | 170 | 7.8 | 0.0003 | 3,600 | 43 |
| 252 D117 | | Beaver Meadow W A | 31 48 35 | 088 58 57 | 05-71 | 612 | CCCKF | 90 | 35 | 1 | 114 | 2.6 | -- | 800 | 9 |
| 253 D125 | | Sandersville | 31 47 59 | 089 01 51 | 01-72 | 184 | MOCN | 44 | 40 | 5 | 250 | 8.2 | -- | 5,080 | 115 |
| 254 D166 | | Laurel C C | 31 47 11 | 089 02 12 | 01-86 | 718 | CCCKF | 62 | 35 | 6 | 43 | 4 | -- | 250 | 4 |
| 255 H077 | | Laurel C C | 31 41 47 | 089 09 02 | 10-64 | 246 | C1HLL | 40 | 30 | 6 | 290 | 7.4 | 0.001 | 5,800 | 140 |
| 256 F020 | | Laurel Airport | 31 39 28 | 089 10 30 | 10-65 | 466 | C1HLL | 54 | 60 | 7 | 170 | 15.0 | 0.0003 | 4,200 | 79 |
| 257 F021 | | Calhoun W A | 31 41 22 | 089 12 26 | 04-66 | 498 | C1HLL | 54 | 30 | 1 | 137 | 11.0 | 0.0002 | 7,300 | 130 |
| 258 G017 | | Glade W A | 31 39 10 | 089 06 26 | 07-65 | 475 | C1HLL | 30 | 20 | 2 | 120 | 8 | -- | 640 | 21 |
| 259 G018 | | Glade W A | 31 39 58 | 089 05 20 | 07-65 | 529 | C1HLL | 40 | 30 | 505 | 120 | 1.0 | -- | 600 | 14 |
| 260 G055 | | Laurel | 31 41 43 | 089 08 39 | 02-64 | 405 | C1HLL | 70 | 60 | -- | 480 | 14.0 | -- | 4,500 | 64 |
| 261 G068 | | Masonite Corporation | 31 40 22 | 089 07 39 | 12-64 | 409 | C1HLL | 59 | 60 | 24 | 361 | 6.5 | -- | 2,200 | 38 |
| 262 G104 | | Laurel | 31 41 43 | 089 07 55 | 02-64 | 396 | C1HLL | 100 | 45 | 5 | 860 | 8.6 | 0.0003 | 5,800 | 58 |
| 263 J017 | | Southern Miss Power | 31 31 43 | 089 18 00 | 06-68 | 230 | C1HLL | 100 | 20 | 4 | 100 | 4.5 | -- | 8,800 | 88 |
| 264 J050 | | Pine Grove W A | 31 34 51 | 089 22 32 | 08-71 | 350 | C1HLL | 54 | 50 | 2 | 125 | 8.2 | -- | 1,900 | 35 |
| 265 K011 | | Ellisville | 31 36 07 | 089 11 56 | 12-64 | 550 | C1HLL | 80 | 50 | 2 | 400 | 12.0 | 0.0002 | 5,300 | 66 |
| 266 L038 | | J-P Utility | 31 31 31 | 089 07 57 | 02-71 | 760 | C1HLL | 53 | 42 | 3 | 197 | 4.2 | -- | 3,100 | 58 |
| 267 L051 | | J-P Utility | 31 31 40 | 089 08 04 | 11-79 | 813 | C1HLL | 61 | 40 | 5 | 278 | 7.9 | -- | 6,100 | 100 |
| 268 L054 | | J-P Utility | 31 31 45 | 089 08 11 | 01-85 | 830 | C1HLL | 90 | 82 | 5 | 337 | 9.6 | -- | 5,100 | 56 |
| Kemper County | | | | | | | | | | | | | | | |
| 269 K005 | | Scooba | 32 49 42 | 088 28 13 | 06-70 | 1,218 | MCSN | 70 | 67 | 1 | 115 | 1.2 | -- | 760 | 10 |
| 270 K027 | | Porterville W A | 32 46 35 | 088 27 55 | 11-68 | 1,718 | GORD | 70 | -- | 1 | 20 | -- | -- | 2,600 | 38 |
| 271 L014 | | N W Kemper W A | 32 43 37 | 088 50 45 | 08-70 | 601 | WLCXL | 200 | 50 | 2 | 148 | 25.0 | -- | 29,000 | 140 |
| Lafayette County | | | | | | | | | | | | | | | |
| 272 F001 | | Campground W A | 34 23 09 | 089 28 24 | 11-66 | 190 | MUWX | 135 | 15 | 4 | 100 | 25.0 | -- | 5,800 | 43 |
| 273 F044 | | University of Miss | 34 21 42 | 089 31 48 | 03-72 | 530 | WLCXL | 85 | 70 | 4 | 800 | 15.0 | -- | 4,000 | 47 |
| 274 F112 | | Oxford | 34 21 04 | 089 32 03 | 11-76 | 439 | WLCXL | 140 | 100 | 50 | 185 | 2.7 | -- | 1,300 | 9 |
| 275 H008 | | Sanders W A | 34 26 52 | 089 16 09 | 06-81 | 662 | RPLY | 70 | 59 | 2 | 73 | 4 | -- | 110 | 2 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | I-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|--------------------------|----------------|---------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Lamar County | | | | | | | | | | | | | | | |
| 276 | E001 | North Lamar W A | 31 17 29 | 089 24 29 | 05-66 | 165 | MOCN | 65 | 40 | 7 | 156 | 7.3 | -- | 2,800 | 43 |
| 277 | E134 | Arnold Line W A | 31 20 03 | 089 22 41 | 07-71 | 770 | C'THLL | 100 | 40 | 2 | 254 | 6.4 | -- | 4,600 | 46 |
| 278 | E141 | Lamar Park W A | 31 19 12 | 089 21 28 | 08-71 | 714 | C'THLL | 76 | 50 | 2 | 315 | 10.5 | 0.0005 | 4,000 | 53 |
| 279 | J019 | U S ABC | 31 08 49 | 089 34 22 | 06-63 | 762 | MOCN | 45 | 30 | 24 | 100 | 1.0 | -- | 3,800 | 84 |
| 280 | J136 | Baxterville | 31 05 17 | 089 35 55 | 05-67 | 200 | CRNL | 103 | 44 | 4 | 171 | 6.2 | -- | 13,000 | 130 |
| 281 | L005 | Beaver Lake | 31 08 49 | 089 21 42 | 05-66 | 406 | HBRG | 63 | 10 | 4 | 41 | .8 | -- | 6,000 | 95 |
| 282 | L016 | Purvis | 31 08 24 | 089 24 30 | 02-62 | 984 | HBRG | 120 | -- | 12 | 757 | 25.0 | -- | 11,000 | 94 |
| 283 | O013 | Lumberton | 31 00 20 | 089 26 57 | 07-67 | 876 | MOCN | 85 | 60 | 2 | 463 | 34.0 | -- | 8,600 | 100 |
| 284 | O047 | Lumberton | 31 00 20 | 089 26 34 | 03-72 | 874 | MOCN | 80 | 52 | 3 | 867 | 22.0 | -- | 8,600 | 108 |
| 285 | O073 | Bass Pecan Company | 31 02 53 | 089 23 53 | 09-82 | 358 | HBRG | 70 | 60 | 3 | 185 | 9.8 | -- | 7,100 | 101 |
| Lauderdale County | | | | | | | | | | | | | | | |
| 286 | C002 | U S Navy | 32 33 12 | 088 36 43 | 07-59 | 208 | WLCXL | -- | 53 | 24 | 465 | 74.0 | 0.001 | 21,000 | -- |
| 287 | C007 | W T Covington | 32 32 45 | 088 41 57 | 05-67 | 310 | WLCXL | 80 | 60 | 1 | 275 | 12.0 | -- | 11,000 | 140 |
| 288 | C026 | N Lauderdale W A | 32 31 10 | 088 42 28 | 01-69 | 700 | WLCXL | 60 | 50 | 1 | 207 | 1.8 | -- | 2,100 | 35 |
| 289 | C053 | U S Navy | 32 33 15 | 088 37 10 | 05-88 | 239 | WLCXL | 100 | 61 | 3 | 703 | 40.9 | -- | 20,050 | 201 |
| 290 | C054 | U S Navy | 32 33 14 | 088 36 59 | 05-88 | 223 | WLCXL | 100 | 47 | 3 | 614 | 43.9 | -- | 21,700 | 217 |
| 291 | D015 | J D Clark & Son | 32 31 22 | 088 30 58 | 10-67 | 136 | WLCXL | 20 | -- | 1 | 41 | 2.5 | 0.001 | 930 | 46 |
| 292 | D025 | U S Navy | 32 33 19 | 088 35 06 | 05-57 | 210 | WLCXL | 100 | 20 | 24 | 66 | 5.1 | 0.00002 | 10,000 | 100 |
| 293 | I001 | Toomsaba W A | 32 25 34 | 088 30 40 | 10-67 | 268 | WLCXL | 28 | 18 | 1 | 25 | 2.5 | -- | 1,300 | 46 |
| 294 | J086 | Russell Utility | 32 25 31 | 088 35 56 | 04-73 | 750 | WLCXL | 96 | 40 | 24 | 203 | -- | -- | 6,460 | 67 |
| 295 | M003 | U S Fish & Wildlife | 32 19 02 | 088 44 57 | 02-63 | 729 | WLCXL | 132 | -- | 24 | 500 | 12.0 | -- | 3,400 | 26 |
| 296 | M022 | Kroehler Mfg | 32 21 34 | 088 45 01 | 03-65 | 832 | WLCXL | 125 | 100 | 5 | 2,182 | 30.0 | -- | 12,000 | 96 |
| 297 | M023 | Kroehler Mfg | 32 21 24 | 088 44 56 | 01-65 | 832 | WLCXL | 120 | 124 | 21 | 1,900 | 22.0 | -- | 12,000 | 100 |
| 298 | M024 | Kroehler Mfg | 32 21 30 | 088 44 48 | 09-65 | 808 | WLCXL | 120 | 100 | 2 | 1,767 | 37.0 | 0.0002 | 12,000 | 100 |
| Lawrence County | | | | | | | | | | | | | | | |
| 299 | B001 | New Hebron | 31 43 58 | 089 59 09 | 03-67 | 357 | C'THLL | 60 | 50 | 2 | 186 | 4.5 | -- | 2,600 | 43 |
| 300 | C006 | Sontag-Wanilla | 31 39 09 | 090 12 11 | 07-67 | 837 | C'THLL | 50 | 50 | 2 | 201 | 4.6 | -- | 800 | 16 |
| 301 | C010 | Sontag-Wanilla | 31 39 30 | 090 11 33 | 09-82 | 834 | MOCN | 56 | 56 | 2 | 130 | .5 | -- | 60 | 1 |
| 302 | D005 | St. Regis Paper | 31 37 45 | 090 05 20 | 06-67 | 928 | C'THLL | 85 | 80 | 2 | 299 | 2.1 | -- | 320 | 4 |
| 303 | G002 | Monticello | 31 33 10 | 090 06 20 | 07-67 | 895 | C'THLL | 50 | 60 | 1 | 165 | -- | -- | 620 | 12 |
| 304 | G008 | Monticello | 31 32 52 | 090 06 22 | 10-64 | 917 | C'THLL | 50 | 50 | 34 | 350 | 3.2 | -- | 620 | 12 |
| 305 | H001 | Silver Creek | 31 36 20 | 089 59 46 | 10-65 | 801 | C'THLL | 35 | 35 | 13 | 115 | 1.8 | -- | 460 | 13 |
| Leake County | | | | | | | | | | | | | | | |
| 306 | A006 | Thomastown | 32 51 56 | 089 40 11 | 08-69 | 246 | SPRT | 160 | 40 | 1 | 150 | 11.0 | -- | 8,600 | 54 |
| 307 | H006 | Edinburg W A | 32 47 56 | 089 20 55 | 08-69 | 849 | WLCXM | 60 | 40 | 1 | 236 | 3.8 | -- | 2,800 | 47 |
| 308 | K010 | Pilgrim Rest | 32 43 22 | 089 34 59 | 04-70 | 776 | WLCXM | 84 | 50 | 1 | 183 | 10.0 | -- | 4,000 | 48 |
| 309 | K015 | Carthage | 32 43 48 | 089 31 48 | 10-69 | 643 | WLCXU | 50 | 50 | 1 | 948 | -- | -- | 800 | 16 |
| 310 | L034 | Freeny W A | 32 41 01 | 089 30 36 | 09-69 | 254 | SPRT | 148 | 40 | 2 | 310 | 27.0 | -- | 8,000 | 54 |
| 311 | O034 | S W Leake W A | 32 37 52 | 089 37 35 | 04-86 | 1,256 | WLCXL | 60 | 60 | 24 | 340 | 7.9 | -- | 2,850 | 48 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|-----------------------|----------------|---------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Lee County | | | | | | | | | | | | | | | |
| 312 | A022 | Cedar Hill W A | 34 28 01 | 088 43 48 | 09-67 | 669 | GORD | 54 | 21 | 2 | 24 | 6.0 | -- | 2,200 | 41 |
| 313 | A022 | Cedar Hill W A | 34 28 01 | 088 43 48 | 10-67 | 572 | EUTWL | 40 | 20 | 24 | 19 | .6 | -- | 530 | 13 |
| 314 | B022 | Gintown | 34 26 38 | 088 39 37 | 03-67 | 586 | GORD | 70 | 60 | 2 | 225 | 3.0 | -- | 930 | 13 |
| 315 | B035 | Trace W A | 34 21 02 | 088 39 13 | 08-83 | 510 | EUTW | 50 | 40 | 2 | 115 | 1.9 | -- | 800 | 16 |
| 316 | H031 | Mooreville Richmond | 34 21 09 | 088 35 04 | 02-88 | 446 | MCSN | 60 | 60 | 4 | 162 | 2.1 | -- | 840 | 14 |
| 317 | G012 | Tupelo | 34 16 14 | 088 43 30 | 01-67 | 556 | MCSN | 140 | -- | 2 | 700 | 5.3 | -- | 1,600 | 11 |
| 318 | G086 | Tupelo | 34 17 11 | 088 43 12 | 07-76 | 590 | GORD | 200 | 100 | 25 | 314 | 8.3 | -- | 2,600 | 13 |
| 319 | H019 | Tupelo | 34 15 30 | 088 42 13 | 05-67 | 450 | MCSN | 135 | -- | 4 | 235 | 5.0 | 0.0004 | 1,200 | 9 |
| 320 | H033 | Natchez Trace | 34 19 48 | 088 42 31 | 08-66 | 492 | MCSN | 100 | -- | 48 | 34 | 1.7 | -- | 1,000 | 10 |
| 321 | H039 | Tupelo | 34 15 50 | 088 42 17 | 12-66 | 630 | GORD | 140 | -- | 2 | 500 | 6.2 | -- | 2,100 | 15 |
| 322 | H041 | Natchez Trace | 34 19 41 | 088 42 10 | 07-66 | 580 | GORD | 80 | 20 | 1 | 10 | 2.2 | -- | 840 | 10 |
| 323 | H041 | Natchez Trace | 34 19 41 | 088 42 10 | 08-66 | 490 | MCSN | 100 | 42 | 11 | 110 | 2.4 | -- | 1,000 | 10 |
| 324 | H042 | Tupelo | 34 15 36 | 088 42 10 | 10-66 | 562 | GORD | 60 | 50 | 1 | 360 | 1.5 | -- | 660 | 11 |
| 325 | H078 | Auburn W A | 34 17 14 | 088 38 00 | 06-67 | 398 | EUTW | 100 | 90 | 2 | 16 | 2.2 | -- | 660 | 7 |
| 326 | H078 | Auburn W A | 34 17 14 | 088 38 00 | 06-67 | 480 | MCSN | 44 | 44 | 21 | 13 | .7 | -- | 200 | 4 |
| 327 | H078 | Auburn W A | 34 17 14 | 088 38 00 | 06-67 | 526 | GORD | 39 | 20 | 1 | 12 | .5 | -- | 130 | 3 |
| 328 | H079 | Lake Piongingo | 34 19 28 | 088 37 43 | 08-67 | 400 | EUTW | 150 | 232 | 1 | 24 | 1.5 | -- | 660 | 4 |
| 329 | H080 | North Lee W A | 34 18 57 | 088 41 18 | 07-67 | 400 | EUTWL | 90 | 60 | 3 | 235 | 3.6 | -- | 1,200 | 13 |
| 330 | H116 | Turner I P | 34 22 20 | 088 42 21 | 03-82 | 463 | MCSN | 105 | 81 | 3 | 207 | 2.7 | -- | 790 | 8 |
| 331 | K101 | Tupelo | 34 14 10 | 088 47 15 | 09-84 | 640 | MCSN | 120 | 80 | 2 | 160 | 2.0 | -- | 1,380 | 12 |
| 332 | L002 | Tupelo | 34 14 55 | 088 42 24 | 06-67 | 470 | EUTWL | 190 | 150 | 100 | 330 | 6.2 | -- | 2,200 | 12 |
| 333 | L004 | Tupelo | 34 13 34 | 088 43 02 | 11-66 | 567 | EUTWL | 158 | 70 | 2 | 630 | 17.0 | -- | 4,600 | 29 |
| 334 | L018 | Jim Williams | 34 13 38 | 088 39 41 | 12-66 | 375 | TBGB | 60 | 105 | 2 | 9 | 1.5 | -- | 530 | 9 |
| 335 | L019 | Tupelo | 34 14 09 | 088 40 48 | 11-66 | 541 | GORD | 60 | 70 | 2 | 515 | 10.0 | -- | 4,600 | 77 |
| 336 | L021 | Cooper Tires | 34 13 44 | 088 42 33 | 03-68 | 560 | GORD | 40 | 60 | 720 | 720 | 5.1 | 0.00003 | 2,500 | 62 |
| 337 | L041 | Tupelo-Lee Park | 34 09 11 | 088 43 00 | 04-67 | 478 | MCSN | 107 | 80 | 1 | 585 | 3.8 | -- | 1,400 | 13 |
| 338 | N016 | Tom Depree | 34 09 44 | 088 43 34 | 03-67 | 420 | EUTW | 90 | 90 | 1 | 9 | 3.1 | -- | 930 | 10 |
| 339 | O014 | Nettleton | 34 05 22 | 088 37 17 | 10-63 | 612 | GORD | -- | 25 | 2 | 83 | 18.0 | -- | 24,000 | -- |
| 340 | O015 | Nettleton | 34 05 23 | 088 37 17 | 10-63 | 282 | MCSN | 75 | 74 | 2 | 253 | 2.3 | -- | 800 | 11 |
| 341 | O028 | Shannon | 34 07 21 | 088 42 52 | 03-64 | 515 | EUTW | 120 | 70 | 11 | 150 | 2.9 | -- | 1,000 | 8 |
| 342 | O054 | Tupelo-Lee Park | 34 10 10 | 088 42 48 | 05-67 | 446 | MCSN | 100 | -- | 1 | 585 | 4.4 | -- | 1,400 | 14 |
| 343 | O056 | Clinton Edge | 34 06 28 | 088 40 51 | 05-67 | 320 | EUTW | 40 | 157 | 1 | 9 | .8 | -- | 260 | 6 |
| Leflore County | | | | | | | | | | | | | | | |
| 344 | L026 | Greenwood | 33 32 00 | 090 09 58 | 07-76 | 775 | MUWX | 110 | 60 | 1 | 500 | 30.0 | -- | 10,700 | 96 |
| 345 | L101 | Greenwood | 33 31 00 | 090 12 35 | 07-76 | 608 | TLLT | 70 | -- | 3 | 700 | 10.2 | -- | 6,700 | 96 |
| Lincoln County | | | | | | | | | | | | | | | |
| 346 | G019 | Brookhaven | 31 33 58 | 090 28 30 | 10-70 | 923 | MOCN | 30 | 40 | 67 | 60 | 1.0 | -- | 620 | 20 |
| 347 | G019 | Brookhaven | 31 33 58 | 090 28 30 | 11-70 | 1,190 | MOCN | 50 | 30 | 28 | 75 | 6.8 | -- | 5,700 | 110 |
| 348 | G019 | Brookhaven | 31 33 58 | 090 28 30 | 09-70 | 140 | CRNL | 20 | 20 | 2 | 137 | 8.1 | -- | 4,000 | 200 |
| 349 | H005 | Brookhaven | 31 34 50 | 090 26 27 | 10-68 | 165 | CRNL | 65 | 60 | 1 | 440 | 11.0 | 0.0005 | 5,300 | 82 |
| 350 | H015 | Brookhaven | 31 35 02 | 090 26 25 | 09-68 | 440 | MOCN | 93 | 60 | 3 | 480 | 22.0 | 0.0002 | 6,600 | 71 |
| 351 | H041 | Lincoln County W A | 31 36 19 | 090 26 02 | 02-70 | 412 | MOCN | 55 | 40 | 2 | 448 | 15.0 | -- | 7,200 | 130 |
| 352 | P001 | Bogue Chitto | 31 26 07 | 090 27 22 | 09-65 | 640 | MOCN | 40 | 42 | 14 | 224 | 8.5 | -- | 5,600 | 140 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|-----------------------|----------------|-----------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Lowndes County | | | | | | | | | | | | | | | |
| 353 | F075 | Columbus | 33 30 45 | 088 28 18 | 06-76 | 609 | GOKD | 80 | -- | 25 | 190 | 3.3 | -- | 2,000 | 25 |
| 354 | F076 | Columbus | 33 27 48 | 088 29 49 | 07-76 | 632 | GOKD | 64 | -- | -- | 203 | 3.8 | -- | 3,680 | 58 |
| 355 | G179 | Columbus | 33 30 53 | 088 23 46 | 05-76 | 863 | GOKD | 108 | 84 | 2 | 167 | 1.8 | -- | 5,300 | 50 |
| 356 | G179 | Columbus | 33 30 53 | 088 23 46 | 04-76 | 498 | GOKD | 48 | -- | 25 | 200 | 3.2 | -- | 2,410 | 50 |
| 357 | K032 | Golden Triangle LP | 33 27 15 | 088 33 37 | 07-79 | 705 | GOKD | 30 | 30 | -- | 37 | 1.2 | -- | 750 | 25 |
| 358 | K039 | Golden Triangle LP | 33 27 18 | 088 33 39 | 01-80 | 329 | EUTW | 100 | 61 | 2 | 54 | .6 | -- | 160 | 2 |
| 359 | L004 | Hooker Chemical | 33 25 08 | 088 23 54 | 11-63 | 570 | GOKD | 90 | 60 | 6 | 600 | 10.0 | 0.0002 | 3,400 | 38 |
| 360 | L017 | Hooker Chemical | 33 25 08 | 088 23 54 | 08-57 | 556 | GOKD | 67 | 51 | 4 | 500 | -- | -- | 3,800 | 57 |
| 361 | L024 | Hooker Chemical | 33 25 09 | 088 23 55 | 03-61 | 1,100 | COKR | -- | 60 | 4 | 1,865 | 71.0 | 0.0003 | 40,000 | -- |
| 362 | P020 | Wayverhauser | 33 21 46 | 088 28 02 | 04-80 | 1,284 | COKR | 106 | 102 | 23 | 2,000 | 11.7 | -- | 8,700 | 82 |
| 363 | P021 | Wayverhauser | 33 21 46 | 088 28 04 | 04-81 | 1,306 | COKR | 150 | 156 | 24 | 2,004 | 15.4 | -- | 5,900 | 39 |
| Madison County | | | | | | | | | | | | | | | |
| 364 | G038 | R.L. Wallace | 32 44 12 | 090 00 04 | 11-69 | 185 | CCKF | 45 | 40 | 5 | 348 | -- | 0.0005 | 4,500 | 100 |
| 365 | L020 | Harry Stewart | 32 39 06 | 090 12 54 | 03-82 | 400 | CCKF | 200 | 100 | 3 | 167 | 2.6 | -- | 1,000 | 5 |
| 366 | O046 | East Madison W A | 32 38 02 | 089 54 15 | 01-85 | 1,551 | MUWX | 154 | 71 | 24 | 408 | 4.4 | -- | 1,850 | 12 |
| 367 | W069 | Ridgeland | 32 24 54 | 090 06 07 | 01-74 | 720 | CCKF | 271 | 155 | 7 | 745 | 7.5 | -- | 5,750 | 21 |
| 368 | W063 | Bear Creek W A | 32 27 10 | 090 05 30 | 08-75 | 694 | CCKF | 135 | 40 | 4 | 412 | 14.2 | -- | 7,350 | 54 |
| 369 | W069 | Ridgeland | 32 25 14 | 090 08 09 | 12-86 | 1,281 | SPRT | 160 | 81 | 28 | 936 | 5.7 | -- | 7,100 | 44 |
| 370 | W074 | Madison | 32 27 02 | 090 08 23 | 09-87 | 1,380 | SPRT | 60 | 50 | 24 | 564 | 10.7 | -- | 4,100 | 69 |
| Marion County | | | | | | | | | | | | | | | |
| 371 | G003 | Columbia C C | 31 16 56 | 089 50 59 | 04-64 | 130 | MOCN | 45 | 28 | 2 | 160 | -- | 0.0006 | 5,800 | 130 |
| 372 | G006 | Petty-Improve | 31 17 17 | 089 45 51 | 04-67 | 1,040 | C1HLL | 86 | 30 | 2 | 100 | 3.3 | -- | 11,000 | 130 |
| 373 | K005 | Foxworth | 31 14 28 | 089 52 16 | 07-66 | 713 | C1HLL | 22 | 25 | 2 | 144 | .7 | -- | 260 | 12 |
| 374 | K011 | U S Geological Survey | 31 14 11 | 089 51 23 | 04-67 | 45 | ALVM | 50 | 2 | 3 | 13 | 2.1 | -- | 4,600 | 92 |
| 375 | L001 | Columbia | 31 14 52 | 089 49 10 | 04-67 | 147 | HBRG | 120 | -- | 1 | 857 | 20.0 | -- | 21,000 | 170 |
| 376 | L014 | U S Geological Survey | 31 14 01 | 089 50 25 | 06-66 | 71 | ALVM | 30 | 2 | 1 | 12 | 1.2 | -- | 3,400 | 110 |
| 377 | L041 | Reichhold Chemical | 31 14 40 | 089 49 48 | 01-75 | 160 | ALVM | 90 | 40 | 3 | 644 | 49.5 | -- | 24,200 | 269 |
| Monroe County | | | | | | | | | | | | | | | |
| 378 | D005 | Smithville | 34 04 08 | 088 23 52 | 04-64 | 179 | GOKD | 40 | 20 | 2 | 82 | 3.7 | -- | 3,600 | 90 |
| 379 | F067 | Wren Water District | 33 59 05 | 088 38 56 | 11-82 | 400 | MCSN | 77 | 60 | 25 | 132 | 4.7 | -- | 1,500 | 19 |
| 380 | I004 | S.L. & S.F. RR | 33 53 25 | 088 13 60 | 06-67 | 623 | PLZC | -- | -- | 100 | 3 | 6.0 | -- | 76 | -- |
| 381 | L017 | Aberdeen | 33 49 46 | 088 32 33 | 10-63 | 160 | EUTW | 60 | 35 | 4 | 627 | -- | 0.00005 | 1,000 | 17 |
| 382 | L023 | Vista Chemical | 33 48 47 | 088 33 35 | 02-63 | 216 | EUTW | 125 | 60 | 360 | 412 | 6.0 | 0.0002 | 1,800 | 14 |
| 383 | L024 | Vista Chemical | 33 48 44 | 088 33 13 | 10-64 | 246 | EUTW | 80 | -- | -- | 180 | -- | -- | 1,200 | 14 |
| 384 | L027 | Aberdeen | 33 49 30 | 088 34 33 | 04-64 | 246 | EUTW | 120 | 40 | 2 | 82 | 4.0 | -- | 1,600 | 13 |
| 385 | O004 | Aberdeen | 33 47 52 | 088 39 01 | 02-58 | 496 | EUTW | 120 | -- | 9 | 500 | 7.5 | 0.0002 | 1,800 | 15 |
| 386 | P023 | Conoco Chemical | 33 48 38 | 088 33 12 | 10-64 | 216 | EUTW | -- | -- | -- | 270 | -- | -- | 1,000 | -- |
| 387 | Q030 | Kent-McGee | 33 43 38 | 088 27 20 | 11-63 | 444 | GOKD | -- | 80 | 100 | 875 | 21.0 | -- | 13,000 | 150 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|--------------------------|----------------|-----------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Montgomery County | | | | | | | | | | | | | | | |
| 388 | D013 | Duck Hill | 33 37 31 | 089 42 22 | 01-78 | 617 | WLCXM | 50 | 51 | 2 | 167 | 6.2 | -- | 680 | 14 |
| 389 | D026 | Duck Hill | 33 37 54 | 089 42 49 | 10-69 | 477 | MUWX | 15 | 60 | 1 | 162 | .7 | -- | 140 | 9 |
| 390 | F003 | Winona | 33 29 16 | 089 43 20 | 02-58 | 314 | MUWX | 67 | 58 | 7 | 550 | 24.0 | 0.0003 | 6,900 | 100 |
| 391 | F025 | Montgomery W A | 33 30 59 | 089 44 36 | 01-72 | 569 | WLCXM | 26 | 20 | 2 | 80 | 8.6 | -- | 4,040 | 155 |
| 392 | K019 | Kimichael | 33 26 18 | 089 33 49 | 12-71 | 511 | WLCXM | 35 | 40 | 2 | 114 | 1.4 | -- | 580 | 16 |
| 393 | L002 | Stewart W A | 33 27 07 | 089 26 07 | 12-65 | 580 | WLCXL | 36 | 40 | 41 | 47 | .4 | -- | 200 | 5 |
| 394 | M001 | Poplar Creek W A | 33 21 14 | 089 33 23 | 11-68 | 947 | WLCXL | 20 | 10 | 1 | 32 | .9 | -- | 660 | 33 |
| 395 | M012 | Poplar Creek W A | 33 21 09 | 089 33 23 | 08-86 | 952 | WLCXL | 35 | 51 | 25 | 166 | 1.8 | -- | 400 | 11 |
| Neshoba County | | | | | | | | | | | | | | | |
| 396 | B001 | Central W A | 32 52 15 | 089 10 20 | 06-70 | 998 | WLCXL | 110 | 80 | 1 | 120 | -- | -- | 4,900 | 44 |
| 397 | C001 | Central W A | 32 55 05 | 089 06 11 | -- | 690 | WLCXL | 125 | 40 | -- | 159 | -- | -- | 26,000 | 210 |
| 398 | E001 | Pearl R Indian School | 32 46 42 | 089 13 30 | -- | 1,200 | WLCXL | 160 | 80 | 30 | 175 | -- | 0.0005 | 16,000 | 100 |
| 399 | F012 | Kentawka Valley W A | 32 45 26 | 089 09 50 | 04-70 | 727 | WLCXM | 60 | 40 | 1 | 185 | 2.9 | -- | 960 | 16 |
| 400 | F029 | Philadelphia | 32 46 25 | 089 06 49 | 04-70 | 713 | WLCXL | 100 | 50 | 2 | 703 | 20.0 | -- | 8,100 | 82 |
| 401 | G003 | Central W A | 32 48 58 | 089 06 26 | 12-68 | 650 | WLCXL | 160 | 40 | 1 | 225 | 17.0 | -- | 26,000 | 160 |
| 402 | H019 | Central W A | 32 47 45 | 088 59 35 | 03-71 | 677 | WLCXL | 74 | 60 | 1 | 262 | 27.0 | -- | 28,000 | 370 |
| 403 | H029 | Bogue Chitto School | 32 49 55 | 088 56 02 | 11-70 | 300 | WLCXM | 60 | 25 | 2 | 55 | 1.0 | 0.0004 | 3,600 | 60 |
| 404 | P002 | Central W A | 32 39 54 | 089 02 04 | 12-68 | 950 | WLCXL | 155 | 40 | 1 | 271 | 27.0 | -- | 14,000 | 94 |
| Newton County | | | | | | | | | | | | | | | |
| 405 | A034 | Sebastopol W A | 32 33 41 | 089 19 11 | 05-85 | 525 | WLCXM | 52 | 31 | 3 | 465 | 5.6 | -- | 1,670 | 32 |
| 406 | B005 | Union | 32 34 12 | 089 07 08 | 07-67 | 323 | MUWX | 105 | 50 | 1 | 520 | 20.0 | 0.0003 | 5,300 | 50 |
| 407 | C015 | Beulah-Hubbard | 32 31 25 | 089 02 55 | 04-69 | 965 | WLCXL | 55 | 44 | 1 | 150 | -- | -- | 3,300 | 60 |
| 408 | D022 | Duffee W A | 32 30 14 | 088 55 46 | 08-70 | 965 | WLCXL | 200 | 50 | 2 | 174 | 19.0 | -- | 36,000 | 180 |
| 409 | E023 | Conehatta School | 32 27 22 | 089 16 20 | 07-69 | 639 | MRDN | 22 | 21 | 2 | 115 | 2.8 | -- | 1,400 | 66 |
| 410 | G003 | Decatur | 32 26 27 | 089 06 32 | 10-67 | 323 | MUWX | 36 | 20 | 1 | 280 | 4.6 | -- | 1,200 | 33 |
| 411 | J001 | South Newton | 32 19 59 | 089 14 05 | 10-68 | 496 | SPRT | 110 | 40 | 1 | 168 | 8.2 | -- | 5,800 | 53 |
| 412 | K041 | Newton | 32 19 03 | 089 10 00 | 03-69 | 311 | SPRT | 40 | 40 | 1 | 360 | 6.9 | -- | 4,000 | 100 |
| Noxubee County | | | | | | | | | | | | | | | |
| 413 | F005 | Camp Lake Forest | 33 08 11 | 088 47 00 | 04-71 | 1,724 | GOKD | 43 | 40 | 1 | 38 | 1.1 | -- | 800 | 19 |
| 414 | H038 | Macon | 33 06 55 | 088 33 49 | 06-70 | 1,857 | MSSV | 350 | 80 | 2 | 1,200 | 21.0 | 0.0001 | 80,000 | 230 |
| 415 | L006 | Maahulaville | 33 05 28 | 088 44 30 | 06-70 | 1,832 | COKR | 64 | 40 | 1 | 135 | -- | -- | 6,000 | 93 |
| 416 | S017 | Shuqualak | 32 58 57 | 088 34 04 | 01-71 | 1,533 | GOKD | 61 | 60 | 2 | 247 | -- | 0.0002 | 5,300 | 87 |
| Oktibbeha County | | | | | | | | | | | | | | | |
| 417 | D041 | Lolley Motors | 33 28 31 | 088 44 54 | 11-63 | 829 | HUTW | 50 | -- | 2 | 50 | -- | -- | 660 | 13 |
| 418 | G018 | Miss State Univ | 33 27 40 | 088 46 43 | 10-63 | 1,430 | GOKD | 87 | 78 | 9 | 1,000 | 16.0 | 0.00004 | 7,300 | 84 |
| 419 | G021 | Starkville | 33 27 36 | 088 48 42 | 12-63 | 1,460 | GOKD | 100 | 83 | 1 | 506 | 13.0 | 0.006 | 7,700 | 77 |
| 420 | G027 | Starkville | 33 27 25 | 088 49 46 | 12-63 | 1,500 | GOKD | 150 | 100 | 3 | 1,020 | 24.0 | -- | 13,000 | 89 |
| 421 | G035 | Miss State Univ | 33 26 45 | 088 47 20 | 10-70 | 1,376 | GOKD | 116 | 60 | 1 | 401 | 5.7 | -- | 4,900 | 42 |
| 422 | G039 | Starkville | 33 26 33 | 088 48 38 | 08-83 | 1,441 | GOKD | 81 | 81 | 4 | 186 | 15.5 | -- | 8,200 | 101 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local Well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|---------------------------|----------------|--------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Panola County | | | | | | | | | | | | | | | |
| 423 | G028 | Como | 34 30 03 | 089 56 17 | 07-74 | 1,269 | WLCXL | 70 | 50 | 2 | 550 | 17.0 | -- | 6,940 | 99 |
| 424 | O035 | Sardis W A | 34 22 02 | 089 44 07 | 08-79 | 663 | WLCXM | 95 | 40 | 3 | 25 | .2 | -- | 50 | 0.5 |
| 425 | K059 | Batesville | 34 17 39 | 089 56 49 | 07-74 | 1,130 | WLCXL | 129 | 60 | 1 | 668 | 16.0 | -- | 4,580 | 36 |
| 426 | U033 | Crowder | 34 10 20 | 090 07 58 | 07-73 | 931 | WLCXL | 42 | 41 | 2 | 86 | 2.2 | -- | 890 | 21 |
| Pearl River County | | | | | | | | | | | | | | | |
| 427 | V094 | Center W A | 30 36 43 | 089 33 13 | 02-74 | 1,142 | MOCN | 100 | 50 | 6 | 354 | 27.2 | -- | 17,100 | 171 |
| Perry County | | | | | | | | | | | | | | | |
| 428 | C015 | Richton | 31 20 55 | 088 56 07 | 01-66 | 736 | C'THLL | 70 | 40 | 3 | 488 | 13.0 | -- | 4,000 | 57 |
| 429 | H003 | Richton | 31 20 37 | 088 56 24 | 11-64 | 564 | MOCN | -- | 54 | 3 | 110 | 1.4 | -- | 810 | -- |
| 430 | G032 | Leaf River Forest | 31 14 38 | 089 02 46 | 08-81 | 495 | HBRG | 45 | 30 | 1 | 20 | 6.2 | -- | 5,900 | 131 |
| 431 | H014 | New Augusta | 31 12 22 | 089 01 58 | 08-65 | 786 | C'THLL | 20 | 30 | 2 | 49 | 1.8 | 0.0002 | 340 | 17 |
| 432 | M011 | Beaumont | 31 09 56 | 088 55 21 | 08-65 | 666 | MOCN | 148 | 40 | 21 | 250 | 25.0 | -- | 26,000 | 180 |
| 433 | M012 | Beaumont | 31 09 56 | 088 55 21 | 01-65 | 485 | HBRG | 55 | 20 | 200 | 7 | .6 | -- | 340 | 6 |
| Pike County | | | | | | | | | | | | | | | |
| 434 | A003 | Summit | 31 17 06 | 090 28 04 | 09-68 | 560 | MOCN | 97 | 70 | 1 | 532 | 16.0 | -- | 5,400 | 56 |
| 435 | D003 | McComb | 31 14 56 | 090 27 15 | 09-68 | 582 | MOCN | 85 | 70 | 2 | 600 | 17.0 | -- | 8,200 | 97 |
| 436 | E001 | Honestead W A | 31 13 05 | 090 24 13 | 08-66 | 1,363 | MOCN | 175 | 50 | 100 | 182 | 25.0 | -- | 33,000 | 190 |
| 437 | E002 | Friendship W A | 31 14 55 | 090 24 47 | 11-68 | 595 | MOCN | 100 | 60 | 1 | 328 | 6.2 | -- | 2,900 | 29 |
| 438 | G003 | Magnolia | 31 09 38 | 090 27 08 | 11-68 | 686 | MOCN | 100 | 80 | 1 | 445 | 52.0 | -- | 14,000 | 140 |
| 439 | K002 | Osyka | 31 00 15 | 090 28 07 | 11-68 | 170 | MOCN | 66 | 20 | 1 | 248 | 2.7 | -- | 5,800 | 89 |
| Pontotoc County | | | | | | | | | | | | | | | |
| 440 | A013 | Toccoopola W A | 34 15 29 | 089 14 04 | 09-72 | 1,575 | GORD | 120 | 50 | 3 | 100 | 1.3 | -- | 670 | 6 |
| 441 | C059 | Ecran | 34 21 15 | 089 01 15 | 09-72 | 1,172 | EUTW | 120 | 76 | 1 | 180 | 7.0 | -- | 2,150 | 18 |
| 442 | C036 | Pontotoc | 34 15 13 | 088 59 33 | 01-68 | 1,168 | MCSN | 110 | 80 | 1 | 204 | 1.5 | -- | 530 | 5 |
| 443 | L046 | Miss State Exp Sta | 34 08 19 | 089 00 26 | 04-79 | 190 | RPLY | 91 | 40 | 6 | 34 | -- | -- | 65 | 0.7 |
| Prentiss County | | | | | | | | | | | | | | | |
| 444 | J022 | Baldwyn | 34 30 35 | 088 37 54 | 08-67 | 426 | EUTW | 50 | -- | 3 | 300 | 3.1 | -- | 800 | 16 |
| 445 | J068 | Baldwyn | 34 30 52 | 088 38 02 | 08-67 | 420 | EUTW | 80 | 70 | 1 | 236 | 3.7 | -- | 1,300 | 16 |
| Quitman County | | | | | | | | | | | | | | | |
| 446 | E034 | Marks | 34 15 38 | 090 16 15 | 03-71 | 1,500 | WLCXL | 90 | 85 | 2 | 474 | 11.0 | -- | 2,700 | 29 |
| 447 | H036 | Lambert | 34 11 58 | 090 17 01 | 08-74 | 849 | WLCXU | 124 | 63 | 1 | 510 | 9.3 | -- | 2,900 | 23 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|-----------------------|----------------|--------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Rankin County | | | | | | | | | | | | | | | |
| 448 | A023 | Pisgah W A | 32 29 05 | 089 52 55 | 10-81 | 442 | CCKH | 70 | 60 | 5 | 180 | 2.9 | -- | 3,200 | 45 |
| 449 | R026 | Jackson Airport | 32 18 47 | 090 04 26 | 01-62 | 614 | CCKH | 58 | 60 | 72 | 290 | 8.8 | -- | 2,900 | 50 |
| 450 | R052 | Floewood | 32 19 45 | 090 06 08 | 08-74 | 895 | SPRT | 75 | 60 | 24 | 554 | 16.0 | -- | 6,980 | 93 |
| 451 | G037 | Castlewood | 32 21 22 | 089 59 51 | 03-88 | 768 | CCKH | 75 | 50 | 8 | 560 | 10.4 | -- | 5,350 | 71 |
| 452 | G042 | Langford W A | 32 20 32 | 089 58 02 | 09-80 | 1,302 | SPRT | 120 | 40 | 8 | 329 | 12.9 | -- | 7,200 | 60 |
| 453 | G046 | Langford W A | 32 19 44 | 090 00 17 | 07-84 | 1,180 | SPRT | 120 | 80 | 8 | 812 | 22.1 | -- | 7,160 | 60 |
| 454 | G051 | Langford W A | 32 20 34 | 089 58 20 | 02-88 | 1,325 | SPRT | 95 | 60 | 2 | 300 | 14.1 | -- | 8,400 | 88 |
| 455 | J004 | Pelahatchie | 32 18 43 | 089 47 47 | 08-63 | 592 | CCKH | 74 | 50 | 2 | 230 | -- | 0.0008 | 5,400 | 48 |
| 456 | K074 | United Gas Pipe | 32 18 04 | 090 06 12 | 10-61 | 454 | CCKH | 113 | 50 | 8 | 191 | 5.6 | -- | 5,400 | 48 |
| 457 | K119 | Pearl | 32 15 18 | 090 07 11 | 07-68 | 984 | SPRT | 100 | 60 | 26 | 608 | 17.0 | -- | 9,800 | 100 |
| 458 | K120 | Pearl | 32 16 40 | 090 07 08 | 10-67 | 861 | SPRT | 90 | 50 | 25 | 602 | 9.6 | -- | 2,230 | 25 |
| 459 | K149 | Richland W A | 32 13 39 | 090 09 46 | 06-72 | 767 | CCKH | 150 | 60 | 11 | 532 | 16.5 | -- | 7,200 | 48 |
| 460 | K175 | Floewood | 32 17 36 | 090 08 41 | 11-81 | 562 | SPRT | 100 | 80 | 7 | 750 | 12.6 | -- | 6,900 | 69 |
| 461 | K186 | Pearl | 32 17 10 | 090 02 38 | 07-86 | 1,305 | SPRT | 135 | 100 | 24 | 774 | 12.9 | -- | 4,800 | 36 |
| 462 | L057 | Horseshoe Utility | 32 17 19 | 090 01 59 | 01-73 | 774 | CCKH | 160 | 92 | 7 | 578 | 16.0 | -- | 6,910 | 43 |
| 463 | L059 | Taylorville | 32 18 40 | 090 00 58 | 06-75 | 794 | CCKH | 110 | 71 | 8 | 280 | 9.3 | -- | 4,810 | 44 |
| 464 | P075 | Florence | 32 09 19 | 090 07 48 | 04-72 | 985 | CCKH | 64 | 60 | 24 | 219 | 4.1 | -- | 1,400 | 22 |
| 465 | Q009 | McLaurin School | 32 08 17 | 090 01 24 | 08-59 | 416 | FRHL | 35 | 20 | 10 | 41 | -- | 0.0001 | 120 | 3 |
| 466 | U023 | Star W A | 32 05 18 | 090 02 22 | 06-70 | 690 | FRHL | 50 | 30 | 1 | 100 | 6.0 | -- | 1,600 | 32 |
| Scott County | | | | | | | | | | | | | | | |
| 467 | D004 | Steele-Kingold | 32 29 35 | 089 26 10 | 10-68 | 1,170 | WLCXU | 66 | 70 | 2 | 250 | 11.0 | -- | 2,900 | 44 |
| 468 | D018 | Sebastopol | 32 33 52 | 089 20 31 | 03-70 | 570 | MUWX | 100 | 60 | 1 | 674 | 4.8 | -- | 930 | 9 |
| 469 | E040 | L & F W A | 32 27 45 | 089 39 54 | 03-70 | 1,465 | MUWX | 60 | 60 | 1 | 216 | 6.0 | -- | 4,500 | 75 |
| 470 | G042 | Steele-Kingold | 32 26 40 | 089 25 30 | 10-68 | 918 | MUWX | 100 | 74 | 2 | 250 | 11.0 | -- | 4,600 | 46 |
| 471 | J015 | Morton | 32 21 02 | 089 39 31 | 06-67 | 948 | SPRT | 96 | 73 | 1 | 600 | 17.0 | -- | 7,300 | 76 |
| 472 | J035 | Morton | 32 20 51 | 089 40 19 | 11-82 | 865 | SPRT | 184 | 22 | 21 | 680 | 13.1 | -- | 6,800 | 37 |
| 473 | J036 | Morton | 32 20 52 | 089 39 00 | 01-83 | 935 | SPRT | 96 | 92 | 22 | 554 | 7.2 | -- | 3,500 | 36 |
| 474 | L012 | Forest | 32 20 00 | 089 28 32 | 11-64 | 351 | CCKH | 76 | 40 | 6 | 770 | 14.0 | -- | 8,200 | 100 |
| 475 | L027 | Forest | 32 21 15 | 089 28 47 | 10-72 | 1,247 | MUWX | 100 | 67 | 4 | 602 | 10.2 | -- | 710 | 7 |
| 476 | L044 | Forest | 32 21 45 | 089 30 37 | 04-80 | 1,324 | MUWX | 110 | 90 | 4 | 175 | 7.3 | -- | 2,600 | 24 |
| 477 | L045 | Forest | 32 21 57 | 089 27 19 | 11-84 | 1,362 | MUWX | 120 | 10 | 8 | 1,002 | 11.7 | -- | 2,400 | 20 |
| 478 | N004 | Homestead W A | 32 15 40 | 089 41 30 | 10-68 | 1,322 | SPRT | 120 | 72 | 2 | 285 | 15.0 | -- | 11,000 | 94 |
| 479 | P020 | Homewood W A | 32 14 08 | 089 30 22 | 12-70 | 1,540 | MUWX | 28 | 35 | 2 | 120 | 1.2 | -- | 370 | 13 |
| Simpson County | | | | | | | | | | | | | | | |
| 480 | C021 | Harrisville W A | 32 00 30 | 090 00 33 | 01-69 | 424 | C'RHLL | 24 | 23 | 5 | 155 | 1.8 | -- | 400 | 16 |
| 481 | E029 | Poplar Springs W A | 31 57 48 | 089 49 44 | 08-70 | 487 | C'RHLL | 34 | 25 | 1 | 272 | 6.0 | -- | 1,200 | 35 |
| 482 | J006 | Mendenhall | 31 57 29 | 089 52 18 | 06-70 | 341 | C'RHLL | 55 | 72 | 2 | 235 | 3.7 | 0.0002 | 860 | 16 |
| 483 | K002 | Universal Mfg | 31 55 23 | 089 48 14 | 07-70 | 400 | C'RHLL | -- | 40 | 2 | 316 | 24.0 | -- | 10,000 | -- |
| 484 | K025 | Smith Crossing W A | 31 56 34 | 089 45 48 | 02-78 | 370 | C'RHLL | 50 | 45 | 5 | 346 | 14.3 | -- | 2,950 | 59 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|----------------------------|-----------|----------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Smith County | | | | | | | | | | | | | | | |
| 485 | A001 | Polkville W A | 32 11 48 | 089 41 15 | 10-68 | 645 | CCKF | 70 | 40 | 2 | 113 | 4.8 | -- | 4,000 | 57 |
| 486 | C014 | Lorena-Lemon-Burns | 32 09 28 | 089 29 59 | 08-70 | 1,080 | SPRT | 120 | 50 | 2 | 149 | 2.6 | -- | 10,000 | 83 |
| 487 | B001 | White Oak W A | 32 04 31 | 089 41 42 | 06-67 | 880 | CCKF | 60 | 50 | 1 | 126 | .4 | -- | 80 | 1 |
| 488 | K002 | Raleigh | 32 02 15 | 089 31 22 | 11-68 | 1,200 | SPRT | 120 | 60 | 2 | 195 | 12.0 | 0.0003 | 10,000 | 89 |
| 489 | K016 | Center Ridge | 31 59 49 | 089 31 17 | 10-68 | 1,400 | SPRT | 150 | 40 | 2 | 200 | 6.3 | -- | 5,400 | 36 |
| 490 | K006 | Fellowship W A | 31 50 14 | 089 27 08 | 02-67 | 212 | CTHLL | 100 | 20 | 5 | 60 | 1.9 | -- | 2,100 | 21 |
| 491 | K006 | Fellowship W A | 31 50 14 | 089 27 08 | 03-67 | 440 | CTHLL | 70 | 20 | 5 | 60 | 3.4 | -- | 8,400 | 120 |
| 492 | K021 | Taylorville | 31 49 28 | 089 25 44 | 08-69 | 346 | CTHLL | 36 | 40 | 2 | 517 | 11.0 | -- | 4,000 | 110 |
| 493 | K050 | Tri County W A | 31 51 08 | 089 19 01 | 07-72 | 1,434 | SPRT | 84 | 50 | 8 | 332 | 7.4 | -- | 2,690 | 32 |
| Stone County | | | | | | | | | | | | | | | |
| 494 | B002 | Wiggins | 30 51 50 | 089 08 40 | 01-65 | 200 | CRNL | 105 | 30 | 1 | 400 | 19.0 | 0.01 | 10,000 | 100 |
| 495 | B003 | Wiggins | 30 51 48 | 089 08 36 | 01-65 | 408 | PCGL | 70 | 65 | 6 | 320 | 3.7 | -- | 3,600 | 51 |
| 496 | B009 | Wiggins | 30 51 47 | 089 08 20 | 02-67 | 954 | PCGL | 155 | 70 | 5 | 700 | 138.0 | -- | 38,000 | 250 |
| 497 | B020 | New Zion W A | 30 51 31 | 089 10 53 | 08-68 | 954 | PCGL | 155 | 40 | 4 | 261 | 37.0 | -- | 48,000 | 310 |
| 498 | B021 | Miss Highway Dept | 30 52 50 | 089 10 00 | 08-68 | 710 | PCGL | 90 | 20 | 3 | 20 | 2.5 | -- | 3,400 | 38 |
| 499 | C029 | International Paper | 30 49 40 | 089 07 20 | 03-70 | 990 | PCGL | 80 | 70 | 2 | 715 | 34.0 | -- | 10,000 | 130 |
| 500 | C037 | Wiggins | 30 50 10 | 089 07 42 | 03-71 | 1,330 | HBRG | 160 | 80 | 2 | 1,100 | 20.0 | -- | 6,700 | 42 |
| 501 | K001 | McHenry W A | 30 42 52 | 089 08 32 | 08-67 | 897 | PCGL | 110 | 71 | 1 | 300 | 26.0 | -- | 14,000 | 130 |
| Sunflower County | | | | | | | | | | | | | | | |
| 502 | F006 | Ruleville | 33 43 36 | 090 33 13 | 05-63 | 1,372 | MUWX | 90 | 83 | 5 | 280 | -- | 0.0001 | 2,800 | 31 |
| Tallahatchie County | | | | | | | | | | | | | | | |
| 503 | C024 | Tutwiler | 34 00 55 | 090 26 28 | 09-64 | 1,044 | MUWX | 58 | 40 | 8 | 403 | 6.8 | -- | 1,400 | 25 |
| Tippah County | | | | | | | | | | | | | | | |
| 504 | B011 | Walnut | 34 57 24 | 088 54 00 | 11-70 | 961 | COFF | 46 | 60 | 24 | 302 | 3.2 | -- | 930 | 20 |
| 505 | B027 | Walnut | 34 57 10 | 088 53 56 | 05-82 | 952 | COFF | 56 | 50 | 3 | 190 | 4.0 | -- | 1,500 | 27 |
| 506 | J022 | Ripley | 34 44 09 | 088 56 54 | 10-70 | 921 | COFF | 95 | 100 | 1 | 300 | 2.8 | -- | 930 | 10 |
| Tishomingo County | | | | | | | | | | | | | | | |
| 507 | E019 | Iuka | 34 48 49 | 088 11 54 | 03-74 | 400 | PLZC | 166 | 80 | -- | 838 | -- | -- | 5,630 | 34 |
| 508 | E035 | Midway Pleasant Hill | 34 47 12 | 088 11 48 | 04-82 | 620 | PLZC | 20 | 20 | 1 | 20 | 1 | -- | 5 | 0.3 |
| 509 | E036 | Midway Pleasant Hill | 34 47 12 | 088 11 48 | 04-82 | 370 | GORD | 140 | 20 | 2 | 30 | 5.7 | -- | 1,600 | 11 |
| 510 | E037 | Midway Pleasant Hill | 34 47 11 | 088 11 48 | 05-82 | 407 | GORD | 68 | 20 | 3 | 38 | 1.7 | -- | 360 | 5 |
| 511 | G025 | USCE | 34 42 43 | 088 17 12 | 10-71 | 256 | GORD | 217 | 40 | -- | 16 | -- | -- | 350 | 2 |
| 512 | G027 | USCE | 34 42 32 | 088 17 32 | 01-72 | 492 | PLZC | 40 | 40 | -- | 10 | -- | -- | 100 | 3 |
| Union County | | | | | | | | | | | | | | | |
| 513 | B017 | Myrtle | 34 33 30 | 089 06 55 | 03-73 | 431 | RPLY | 58 | 50 | 2 | 151 | 1.6 | -- | 430 | 7 |
| 514 | D024 | Keownville | 34 32 50 | 088 54 04 | 09-80 | 640 | EUTW | 56 | 60 | 92 | 25 | .2 | -- | 590 | 11 |
| 515 | H030 | New Albany | 34 30 03 | 089 02 00 | 09-73 | 1,095 | EUTW | 138 | 100 | 1 | 584 | 3.8 | -- | 890 | 6 |
| 516 | J013 | Alpine W A | 34 29 31 | 088 48 04 | 02-73 | 720 | EUTW | 94 | 60 | 2 | 162 | 5.3 | -- | 2,250 | 24 |
| 517 | N038 | Blue Springs W A | 34 24 09 | 088 52 23 | 10-81 | 921 | EUTW | 100 | 72 | 1 | 65 | .7 | -- | 210 | 2 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|--------------------------|----------------|----------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Walsh County | | | | | | | | | | | | | | | |
| 518 | A001 | United Gas | 31 20 00 | 090 13 10 | 07-67 | 228 | PCGL | 140 | 20 | 2 | 165 | 18.0 | -- | 13,000 | 95 |
| 519 | C003 | Transcontinental Gas | 31 15 07 | 090 11 45 | 07-67 | 377 | PCGL | 64 | 30 | 3 | 180 | 3.4 | -- | 4,600 | 72 |
| 520 | F004 | lyletown | 31 07 02 | 090 08 05 | 07-67 | 354 | PCGL | 100 | 60 | 2 | 86 | 14.0 | -- | 13,000 | 130 |
| Warren County | | | | | | | | | | | | | | | |
| 521 | J004 | Vicksburg | 32 23 10 | 090 53 02 | 09-64 | 170 | MRVA | 90 | -- | 48 | 503 | 10.0 | 0.0006 | 21,000 | 230 |
| 522 | J017 | Vicksburg | 32 23 18 | 090 52 39 | 09-64 | 170 | MRVA | 90 | -- | 48 | 503 | 50.0 | 0.0005 | 21,000 | 230 |
| 523 | J024 | Anderson-Clayton | 32 23 27 | 090 53 39 | 09-67 | 131 | MRVA | 86 | 40 | 4 | 1,250 | 42.0 | -- | 12,000 | 130 |
| 524 | L013 | Bovina Water Club | 32 21 01 | 090 44 26 | 03-71 | 187 | CTHLL | 65 | 25 | 1 | 46 | 11.0 | 0.004 | 9,400 | 150 |
| 525 | L025 | Harry Stewart | 32 23 26 | 090 41 59 | 05-79 | 258 | MSPG | 22 | 30 | 4 | 115 | 1.5 | -- | 270 | 12 |
| 526 | L027 | Harry Stewart | 32 23 21 | 090 42 03 | 02-80 | 222 | MSPG | 38 | 20 | 2 | 85 | 1.3 | -- | 210 | 6 |
| Washington County | | | | | | | | | | | | | | | |
| 527 | A025 | Greenville | 33 29 08 | 090 59 31 | 05-63 | 565 | CCKF | 52 | 45 | 5 | 696 | 25.0 | 0.0004 | 6,400 | 120 |
| 528 | A037 | Metcalfe W A | 33 27 09 | 091 00 21 | 03-69 | 475 | CCKF | -- | 40 | 1 | 136 | 11.0 | -- | 14,000 | -- |
| 529 | A040 | Winterville W A | 33 30 09 | 091 03 29 | 04-69 | 504 | CCKF | 73 | 100 | 1 | 150 | 1.9 | -- | 11,000 | 150 |
| 530 | D015 | Greenville | 33 24 56 | 091 02 52 | 05-63 | 527 | CCKF | 120 | 100 | 2 | 1,370 | -- | 0.0004 | 13,000 | 110 |
| 531 | D077 | Greenville | 33 22 15 | 091 04 43 | 11-69 | 475 | CCKF | 116 | 60 | 10 | 1,100 | 29.0 | -- | 10,000 | 89 |
| 532 | E041 | Elizabeth W A | 33 25 24 | 090 52 39 | 10-67 | 522 | CCKF | 122 | 40 | 6 | 100 | 10.0 | -- | 8,500 | 70 |
| 533 | E043 | Miss State Univ | 33 25 34 | 090 54 43 | 10-68 | 495 | CCKF | -- | 40 | 1 | 425 | 8.3 | -- | 6,700 | -- |
| 534 | E046 | Leland | 33 24 32 | 090 53 49 | 01-68 | 645 | CCKF | 200 | 60 | 2 | 938 | 43.0 | -- | 21,000 | 100 |
| 535 | G066 | Swiftwater W A | 33 19 42 | 091 02 37 | 10-68 | 460 | CCKF | 88 | 30 | 2 | 120 | 2.4 | -- | 9,300 | 100 |
| 536 | K015 | Riverside W A | 33 13 51 | 091 02 41 | 05-68 | 1,164 | SPRT | 57 | 55 | 1 | 70 | 3.0 | -- | 4,800 | 84 |
| 537 | L025 | Arcola | 33 16 04 | 090 52 46 | 05-68 | 650 | CCKF | 40 | 40 | 1 | 100 | -- | -- | 530 | 13 |
| 538 | L070 | Arcola | 33 16 19 | 090 52 22 | 06-77 | 976 | SPRT | 180 | 50 | 2 | 252 | -- | -- | 28,700 | 160 |
| 539 | Q045 | Dave Jones | 33 10 39 | 090 42 26 | 04-71 | 110 | MRVA | 100 | 48 | 62 | 1,000 | -- | 0.0003 | 40,000 | 400 |
| 540 | S005 | Agrie Chemical | 33 02 08 | 090 59 14 | 05-54 | 125 | MRVA | 103 | 35 | 133 | 2,270 | -- | 0.004 | 28,000 | 270 |
| 541 | S060 | Glen Allen W A | 33 01 33 | 091 01 43 | 12-68 | 1,006 | SPRT | 124 | -- | 1 | 225 | 7.5 | -- | 5,300 | 43 |
| Wayne County | | | | | | | | | | | | | | | |
| 542 | G113 | Whistler W A | 31 42 01 | 088 48 20 | 04-73 | 210 | CTHLL | 70 | 60 | 2 | 300 | 7.8 | -- | 2,040 | 29 |
| 543 | N006 | Waynesboro | 31 40 10 | 088 39 00 | 04-64 | 118 | WSBR | 55 | 40 | 5 | 385 | 12.0 | -- | 3,300 | 60 |
| 544 | O218 | Miss Forestry | 31 36 47 | 088 33 03 | 11-64 | 182 | CTHLL | 52 | 50 | 2 | 290 | 23.0 | 0.0001 | 7,700 | 140 |
| 545 | Q005 | U S Forest Service | 31 31 45 | 088 53 43 | 09-65 | 630 | CTHLL | 70 | 10 | 2 | 32 | 6.1 | -- | 7,400 | 100 |
| 546 | S032 | Clara W A | 31 35 37 | 088 40 46 | 09-66 | 342 | CTHLL | 48 | 30 | 2 | 60 | 4.1 | 0.001 | 2,800 | 58 |
| 547 | T083 | Buckatanna W A | 31 35 34 | 088 32 34 | 09-77 | 352 | CTHLL | 48 | 46 | 3 | 224 | 10.2 | -- | 2,880 | 60 |
| 548 | T086 | Buckatanna W A | 31 35 35 | 088 32 36 | 04-78 | 358 | CTHLL | 40 | 40 | 2 | 250 | 5.7 | -- | 2,940 | 74 |
| Webster County | | | | | | | | | | | | | | | |
| 549 | A010 | Caderetta W A | 33 42 18 | 089 26 30 | 06-69 | 280 | WLCXL | 50 | 40 | 2 | 71 | .7 | -- | 160 | 3 |
| 550 | M007 | Eupora | 33 30 20 | 089 20 40 | 09-75 | 340 | WLCXL | 100 | 80 | 6 | 385 | 4.5 | 0.00026 | 1,550 | 16 |
| 551 | M008 | Eupora | 33 30 17 | 089 20 29 | 09-75 | 340 | WLCXL | 124 | 90 | 2 | 370 | 4.8 | -- | 1,470 | 12 |
| 552 | M025 | Tommolen W A | 33 29 13 | 089 21 27 | 12-70 | 359 | WLCXL | 62 | 50 | 1 | 251 | 11.0 | -- | 4,600 | 75 |

Table 2. Results of aquifer tests in Mississippi--Continued

| Site No. | Local well No. | Owner or operator | Latitude | Longitude | Date of test | Well depth (feet) | Geologic unit code (see table 1) | Aquifer thickness (feet) | Screen length (feet) | Pumping period (hours) | Well yield (gallons per minute) | 1-day specific capacity | Storage coefficient | Transmissivity (feet squared per day) | Hydraulic conductivity (feet per day) |
|-------------------------|----------------|----------------------|----------|-----------|--------------|-------------------|----------------------------------|--------------------------|----------------------|------------------------|---------------------------------|-------------------------|---------------------|---------------------------------------|---------------------------------------|
| Wilkinson County | | | | | | | | | | | | | | | |
| 553 | D005 | Crosby | 31 16 49 | 091 03 34 | 08-68 | 828 | MOCN | 80 | 50 | 4 | 200 | 33.0 | 0.0002 | 13,000 | 160 |
| 554 | H009 | Buffalo W A | 31 13 30 | 091 12 48 | 04-70 | 490 | MOCN | 120 | 40 | 2 | 300 | 10.0 | -- | 9,300 | 77 |
| 555 | M004 | Woodville | 31 05 55 | 091 17 59 | 01-70 | 935 | MOCN | 50 | 60 | 2 | 636 | 7.4 | 0.0002 | 2,000 | 40 |
| 556 | T046 | U S Army | 31 03 29 | 091 04 55 | 02-43 | 838 | MOCN | 80 | 60 | 96 | 390 | 11.0 | -- | 13,000 | 160 |
| 557 | T102 | J P Kennedy | 31 04 15 | 091 04 22 | 02-43 | 415 | MOCN | 86 | 60 | 140 | 560 | 13.0 | 0.0003 | 7,000 | 82 |
| 558 | T103 | J P Kennedy | 31 04 15 | 091 04 22 | 02-43 | 1,685 | MOCN | 440 | 60 | 72 | 940 | 28.0 | -- | 58,000 | 130 |
| Winston County | | | | | | | | | | | | | | | |
| 559 | D013 | High Point W A | 33 10 51 | 089 06 51 | 02-70 | 406 | WLCXL | 27 | 25 | 1 | 225 | 6.6 | -- | 1,300 | 49 |
| 560 | J003 | Whitehall W A | 33 06 28 | 089 10 05 | 02-70 | 200 | WLCXL | 45 | 40 | 1 | 111 | 1.5 | -- | 400 | 8 |
| 561 | J007 | Calvary W A | 33 03 50 | 089 08 36 | 05-88 | 467 | WLCXL | 63 | 34 | 2 | 175 | 5.9 | -- | 2,060 | 33 |
| 562 | J026 | Calvary W A | 33 03 53 | 089 08 39 | 05-88 | 429 | WLCXLM | 25 | 30 | 2 | 167 | 8.0 | -- | 2,620 | 105 |
| 563 | K009 | Louisville | 33 06 11 | 089 03 28 | 05-63 | 316 | WLCXL | 90 | 63 | 8 | 893 | 34.0 | 0.0001 | 10,000 | 110 |
| 564 | K011 | Flower Ridge W A | 33 02 53 | 089 04 10 | 12-69 | 447 | WLCXL | 100 | 40 | 1 | 257 | 24.0 | -- | 10,000 | 100 |
| 565 | K013 | Louisville | 33 06 11 | 089 03 30 | 01-68 | 360 | WLCXL | 109 | 92 | 4 | 697 | 8.4 | -- | 6,000 | 55 |
| 566 | P003 | Noxapater | 32 57 52 | 089 02 13 | 12-69 | 500 | WLCXL | 130 | 40 | 1 | 225 | 47.0 | -- | 28,000 | 210 |
| 567 | P014 | Noxapater | 32 59 40 | 089 04 13 | 10-69 | 530 | WLCXL | 60 | 20 | 2 | 110 | 12.0 | 0.0004 | 5,300 | 89 |
| 568 | Q001 | Namih Waiya W A | 32 59 10 | 088 56 06 | 02-70 | 285 | WLCXL | 50 | 50 | 1 | 226 | 6.5 | -- | 5,300 | 100 |
| Yalobusha County | | | | | | | | | | | | | | | |
| 569 | H002 | Oakland | 34 03 25 | 089 55 03 | 03-72 | 433 | MUWX | 64 | 30 | 2 | 93 | 3.4 | -- | 1,770 | 28 |
| 570 | L018 | East End W A | 33 57 43 | 089 39 22 | 03-72 | 674 | WLCXL | 50 | 40 | 1 | 164 | 5.7 | -- | 1,480 | 30 |
| Yazoo County | | | | | | | | | | | | | | | |
| 571 | H027 | Lake City W A | 32 53 54 | 090 27 11 | 10-74 | 1,008 | SPRT | 130 | 41 | 4 | 329 | 12.8 | -- | 16,600 | 128 |
| 572 | G081 | Mississippi Chemical | 32 54 21 | 090 22 43 | 01-76 | 2,050 | MUWX | 240 | 250 | 24 | 900 | 21.3 | -- | 18,200 | 76 |
| 573 | O025 | Casey Jones W A | 32 48 17 | 090 07 22 | 02-76 | 767 | SPRT | 63 | 40 | 3 | 275 | 9.6 | -- | 4,850 | 77 |
| 574 | O030 | Casey Jones W A | 32 48 26 | 090 03 52 | 11-85 | 1,493 | MUWX | 70 | 60 | 3 | 232 | 4.8 | -- | 1,360 | 20 |

Table 3. Summary of well and aquifer characteristics in Mississippi

[**Bold numbers**, interquartile range (25 percentile - 75 percentile) of aquifer-test results analyzed by the U.S. Geological Survey]

| <u>Common range of well and aquifer characteristics</u> | | | | |
|---|-----------------------------------|---|--|---|
| Aquifer number and name | Well depth ¹ (feet) | Yield ¹ (gallons per minute) | Transmissivity ² (feet squared per day) | Hydraulic conductivity (feet per day) |
| 1 Mississippi River alluvial aquifer | 120-170 50-140 | 500-2,300 500-3,000 | 19,000-43,000 13,000-79,000 | 200-400 -- |
| 2 Citronelle aquifers | 140-200 50-200 | 170-440 50-300 | 4,000-11,000 4,000-13,000 | 82-180 -- |
| 3 Miocene aquifer system | 350-800 50-1,500 | 160-540 50-1,500 | 3,000-10,000 1,000->10,000 | 46-130 -- |
| 4 Oligocene aquifer system | 190-490 150-1,000 | 50-200 10-150 | 160-2,400 120-3,300 | 4-48 -- |
| 5 Cockfield aquifer | 480-770 100-1,000 | 130-550 10-1,000 | 1,400-8,100 80-2,100 | 22-89 -- |
| 6 Sparta aquifer | 690-1,100 100-1,500 | 170-600 10-1,000 | 4,000-8,400 300-13,000 | 39-88 -- |
| 7 Winona-Tallahatta aquifer | 610-1,200 100-1,000 | 460-700 10-400 | 2,600-6,700 <1,000-10,000 | 26-96 -- |
| 8 Meridian-upper Wilcox aquifer | 430-1,200 100-1,800 | 170-510 100-2,000 | 1,400-6,000 150-17,400 | 20-70 -- |
| 9 Lower Wilcox aquifer | 330-950 100-2,100 | 150-470 100-1,500 | 1,500-12,000 670-51,000 | 32-100 -- |
| 10 Ripley aquifers | 130-600 50-1,100 | 44-200 10-300 | 76-710 <1,000-5,000 | 1-7 -- |
| 11 Coffee Sand aquifer | 760-960 50-1,000 | 62-300 10-400 | 830-1,400 <1,000-5,000 | 12-37 -- |
| 12 Eutaw-McShan aquifer | 390-620 100-1,500 | 53-290 10-500 | 660-1,400 200-4,900 | 9-15 -- |
| 13 Tuscaloosa aquifer system | 560-1,500 100-2,000 | 82-520 50-1,500 | 1,600-7,300 535-21,400 | 14-81 -- |
| 14 Paleozoic aquifer | 450-500 100-600 | 100-840 100-900 | 1,300-5,300 80-9,000 | 13-83 -- |

¹Numbers not in bold type from Boswell (1985, table 2, p. 270, 272).

²Numbers not in bold type from Wasson (1986, p. 1-108; values based on aquifer tests and geophysical logs).