

# WATER-RESOURCES OVERVIEW OF THE MISSISSIPPI GULF COAST AREA

by

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Hydrologists

U. S. Geological Survey

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### ABSTRACT

The Mississippi Gulf Coast region extends from the Mississippi-Louisiana boundary at Pearl River eastward to the Mississippi-Alabama boundary and includes Hancock, Harrison, and Jackson Counties, Mississippi Sound, and the barrier islands. The region is underlain by southward sloping irregular beds of sand and clay that range from Miocene to Holocene in age.

The Miocene aquifer system in the Gulf Coast area includes water-bearing zones in the Pascagoula and Graham Ferry Formations. The Citronelle aquifer and younger strata overlie the Miocene aquifer system. Freshwater extends to depths ranging from about 1,200 feet east of Pascagoula to slightly more than 3,000 feet in western Hancock County. Most large wells in the area range from 400 to about 1,000 feet in depth and commonly produce 500 to 1,000 gallons per minute.

Water-levels have declined regionally about 2 feet per year during the past 30 years. In the Pascagoula-Moss Point area, concentrated large withdrawals since about 1900 have caused declines of as much as 136 feet. In the Biloxi-Gulfport area declines have been as much as 100 feet from above land surface to about 50 feet below land surface. Although these declines seem large, most of the region can accomodate much larger declines, and the aquifers are capable of yielding much larger quantities of water.

The major streams in the region include the Pearl, Jourdan, Wolf, Tchoutachabouffa, Biloxi, Escatawpa, and Pascagoula Rivers. Back Bay of Biloxi and St. Louis Bay are prominent estuarine features. The Pearl and Pascagoula Rivers are the principal drainage from central and southern Mississippi. The Escatawpa River is a tributary to the Pascagoula River. The other rivers drain directly into Mississippi Sound, Back Bay of Biloxi, or St. Louis Bay. The region is subject to flooding from land surface runoff from excessive precipitation and from hurricane-induced flood tides.

Surface water in the region generally is soft, acidic, and low in dissolved solids. Suspended sediment concentrations are low; however, some streams are high in organic color. All streams are subject to saltwater intrusion.

Ground water is generally of good quality but locally contains excessive concentrations of dissolved solids. Saltwater intrusion has not been observed except in shallow aquifers that are hydraulically connected to estuarine streams. Water-quality problems in deeper aquifers are related to freshwater-saltwater interfaces that occur in all confined aquifers. Water temperatures range from about 68°F in very shallow wells to over 100°F in the deepest aquifers.

From Biloxi westward, the deeper aquifers are virtually undeveloped. Fresh surface water is used by industry in the Pascagoula area. Brackish surface water is used in the Biloxi area for thermoelectric cooling. All public water supplies and some industrial water supplies use ground water; however, most of the water used in the area in terms of volume is brackish surface water. Total water use in 1980 was about 50 million gallons per day from ground-water sources and about 720 million gallons per day from surface sources.

## INTRODUCTION

The U.S. Army Corps of Engineers, Mobile District, is making a water-resources management study that includes the three counties that border the Mississippi Gulf Coast. The Corps of Engineers study was authorized by resolutions adopted in June 1972 and March 1973 by the Committees on Public Works of the Senate and House of Representatives, 92d and 93d Congresses of the United States. In 1984, the U.S. Geological Survey entered into agreement with the U.S. Army Corps of Engineers to provide a summary of available hydrologic information for the area.

## PURPOSE AND SCOPE

This report summarizes the published and open-file hydrologic information available for the three-county Mississippi Gulf Coast area. The sources of information include the publications and files of the U.S. Geological Survey and other agencies. Surface-water records were run on standard analytical programs to compute statistical relations for low-flow, average flow, and high-flow conditions in major streams. Particular attention was directed to the hydrology of streams at points of entry to the area, and to the problem reaches of the streams within the area. Available publications and file data on ground-water resources are summarized from the standpoint of recharge areas, delineation of aquifers, ground-water use, changes in water levels, and changes in water quality. No previously unreleased data or interpretative information are presented.

## PHYSICAL SETTING

The Mississippi Gulf Coast region is bounded on the east by the Mississippi-Alabama state line and on the west by the Pearl River, the common state boundary with Louisiana. The region includes Hancock, Harrison, and Jackson Counties, Mississippi Sound, and the barrier islands situated 10 to 12 miles south of the shoreline. The three counties have a combined area of about 1,800 mi<sup>2</sup>. The Mississippi Sound comprises about 800 mi<sup>2</sup> of additional area. The four principal islands, subject to changes in area, include a total of about 50 mi<sup>2</sup> (fig. 1).

The climate of the study area is characterized by heavy rainfall, hot summers, and mild winters. Rainfall averages about 60 inches annually, and relative humidity generally remains high throughout the year. Temperatures during the summer months seldom exceed 100° but often reach 90° (Newcome and others, 1968).

Land forms in the coastal area, described in detail by Brown and others (1944, p. 17-31), include the Long Leaf Pine Hills, the Coastal Pine Meadows, the alluvial plains of the larger streams, beach ridges, sand dunes, and barrier islands.

The beds exposed at the surface in the area range in age from Miocene to Holocene (fig. 2 and table 1). The area is underlain by a south-southwestward dipping series of deltaic and estuarine sediments that are composed mostly of clay, silt, sand, and irregular beds of gravel. The oldest exposed strata have been assigned to the Pascagoula Formation and are Miocene in age whereas the younger Graham Ferry and Citronelle Formations were considered to be of Pliocene age in Mississippi by Newcome and others (1968).

The Citronelle is a blanket deposit that overlies both the Graham Ferry and the Pascagoula and extends beyond the study area to the north (Boswell, 1979). The Citronelle in the coastal area is overlain by Pleistocene and Holocene coastal and terrace deposits and alluvium.

The south-southwestward slope that is characteristic of the older units is the result of gradual subsidence (sinking) in the Gulf Coast geosyncline. The younger beds exhibit successively less southwestward slope. Most of the units thicken down the dip to the southwest (Brown and others, 1944).

The major streams in the area (fig. 1) include the Pearl, Jourdan, Wolf, Tchoutachabouffa, Biloxi, Escatawpa, and Pascagoula Rivers. These streams have well-defined inland channels that provide drainage for the mostly rural area. Back Bay of Biloxi and St. Louis Bay are large estuarine features.

Major population centers within the area of investigation include Pascagoula-Moss Point, Biloxi-Ocean Springs, Gulfport-Long Beach-Pass Christian and Bay St. Louis-Waveland. Also included is the National Space Technology Laboratories area, Keesler Air Force Base, and U.S. Naval Construction Battalion Center.





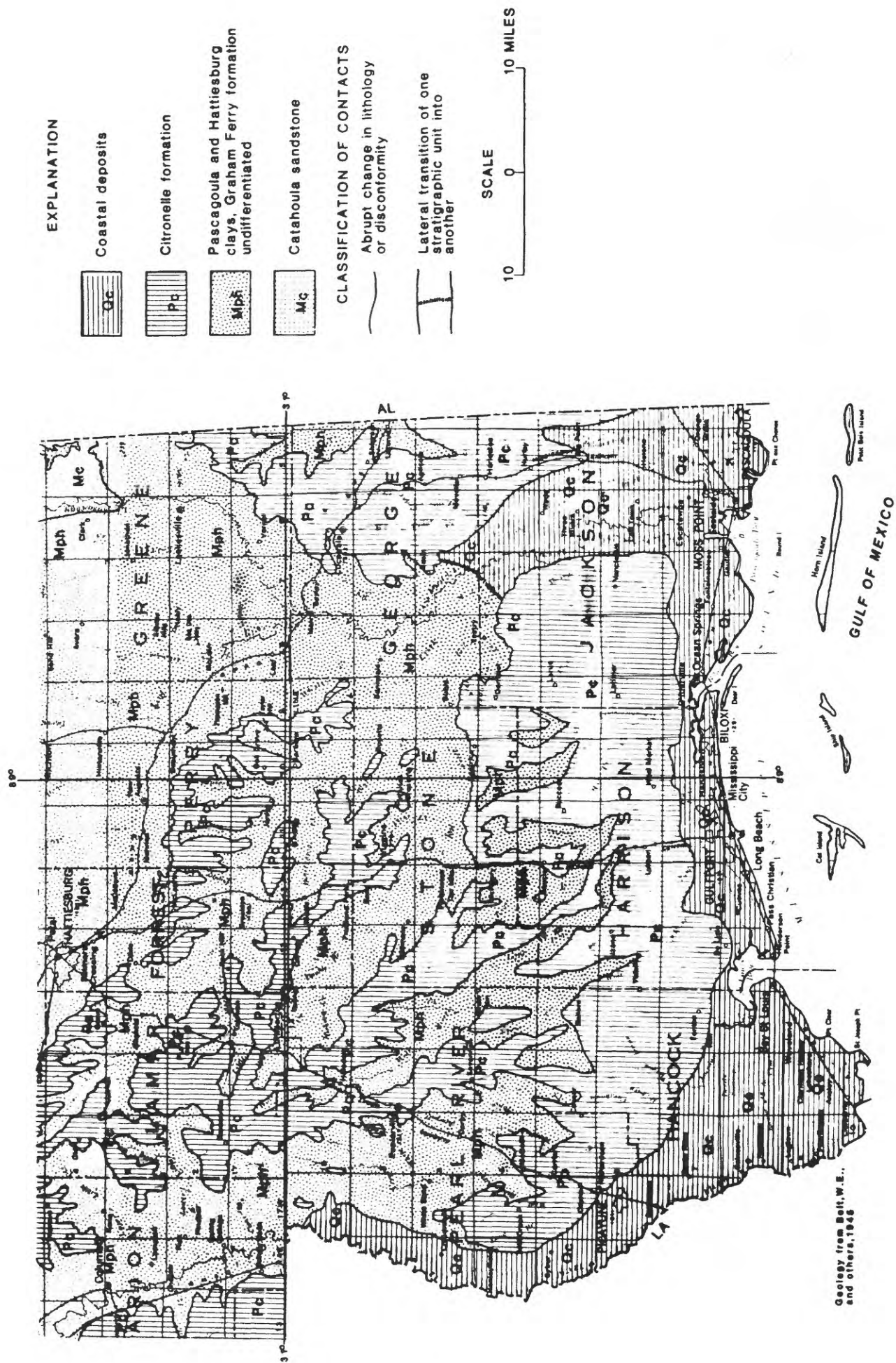


Figure 2.--Geologic map of a part of southern Mississippi.

TABLE 1. - *Geologic Units and their water-bearing properties*  
(modified from Harvey, Golden, and Jeffery, 1965, Table 19)

System	Series	Formation	Thickness (feet)	Lithology and stratigraphy	Hydrology
Quaternary	Holocene	Alluvium	20-80+	Clay, silt, sand and fine gravel.	Contains water that is probably salty as far north as salt water penetrates up the rivers.
	Pleistocene	Terrace deposits	0-100	Sand and clay grading downward into coarse sand and fine gravel.	Contain fresh water having a low dissolved-solids content. Near the coast at shallow depths, the water is subject to salt-water encroachment.
	Pliocene	Citronelle	0-100+	Sand and gravel.	Maintains high base flows of streams, and a source of recharge to the Miocene aquifer system. Supplies most rural wells in uplands.
		Graham Ferry	0-200	Gray, carbonaceous, and fossiliferous clay and lenticular sand, in places coarse but usually fine to medium.	Supplies 60 percent of the municipal and industrial ground-water supply. Soft sodium bicarbonate type of water.
Tertiary	Miocene	Pascagoula	250-1000+	Clay, shale, and sand. Sand is lenticular, fine to very coarse.	Comprises several aquifers along the coast and many sand beds of local extent. The base of fresh water is in the lower part of the formation. Where the thickness is substantial, transmissivity is high. Soft, sodium bicarbonate type of water, usually having higher chloride content than Graham Ferry Formation.
		Hattiesburg	850+	Clay and sand similar to Pascagoula Formation.	Contains supplies of fresh water in counties north of coastal area.
		Catahoula Sandstone	300+	Sand, shale, and sandstone.	Unused. Saline water.

## WATER USE

All domestic and public water-supply systems use ground water. Most of the ground-water withdrawals in the region are concentrated in a belt a few miles wide that extends from Waveland to Pascagoula along the shoreline of Mississippi Sound.

According to Callahan (1982), most of the water used in the area, in terms of volume, is surface water. Fresh surface water from the Pascaoula River supplies the Bayou Cassotte Industrial area. Freshwater from the Escatawpa River and brackish water from Back Bay of Biloxi is used for cooling at two electric power plants.

The counties along the Mississippi Gulf Coast have experienced an increase in population since 1975, which is reflected in a corresponding increase in water use for some categories. The population served by public water systems increased from 226,655 in 1975 to 252,890 in 1980, a 12 percent change. A comparison of the 1975 and 1980 water-use totals in million gallons per day for the area is as follows (Callahan, 1982).

	<u>1975</u>	<u>1980</u>	<u>Percent Change</u>
Public supplies	27.57 Mgal/d	31.30 Mgal/d	+14
Self-supplied industry			
ground water	18.42 Mgal/d	17.73 Mgal/d	-4
fresh surface water	42.35 Mgal/d	56.08 Mgal/d	+32
brackish surface water	791.49 Mgal/d	661.69 Mgal/d	-16
Rural domestic	3.65 Mgal/d	3.64 Mgal/d	0

Water use in the three counties in 1980 averaged about 770 Mgal/d of which 86 percent was brackish surface water used for industrial purposes in Harrison and Jackson Counties. Freshwater use in the counties averaged about 109 Mgal/d. The largest use of fresh surface water, 56.1 Mgal/d, was for industrial supplies in Jackson County. The largest use of fresh ground water, 31.3 Mgal/d, was for public water supplies. The use of ground water in Harrison County, 25.8 Mgal/d, was slightly larger than that in Jackson County, and about five times the amount used in Hancock County.

Of the three counties, Harrison County used the largest amount of brackish surface water, but used very little fresh surface water. Hancock County, with a total water use of less than 5 Mgal/d, used very little water in comparison to Harrison and Jackson Counties.

Data published by the U.S. Geological Survey (Callahan, 1975, 1982, 1983) shows that the use of fresh ground water in the three-county area increased about 6 percent between 1975 and 1980. The use of fresh surface water also increased during this period due largely to the increased demand for industrial water in Jackson County. The use of brackish water increased by about 100 Mgal/d in Jackson County between 1975 and 1980 but decreased by 231 Mgal/d in Harrison County.

## SURFACE WATER

The study area includes five drainage basins as shown on the River Basin and Hydrologic Unit Map (fig. 3). Major streams in the area originate in central Mississippi and discharge into the Gulf of Mexico (U. S. Geological Survey, 1977).

Streamflow data collected at continuous-record stations (fig. 1) are summarized in table 2. The maximum and minimum discharges for the period of record are tabulated with average annual runoff for streams with 10 or more years of record. Statistical summaries include low-flow frequency data based on 1-, 7-, and 30-day flows for a 10-year recurrence interval and flow duration values for 10, 50, and 90 percent exceedance. Locations of the streamflow gaging stations are shown on figure 1. Four gaging stations that are located upstream outside the area are included to provide more complete coverage. The river basins in the three-county area are described separately below. Coastal area flooding and stream water quality are described in later sections.

### Principal Drainage

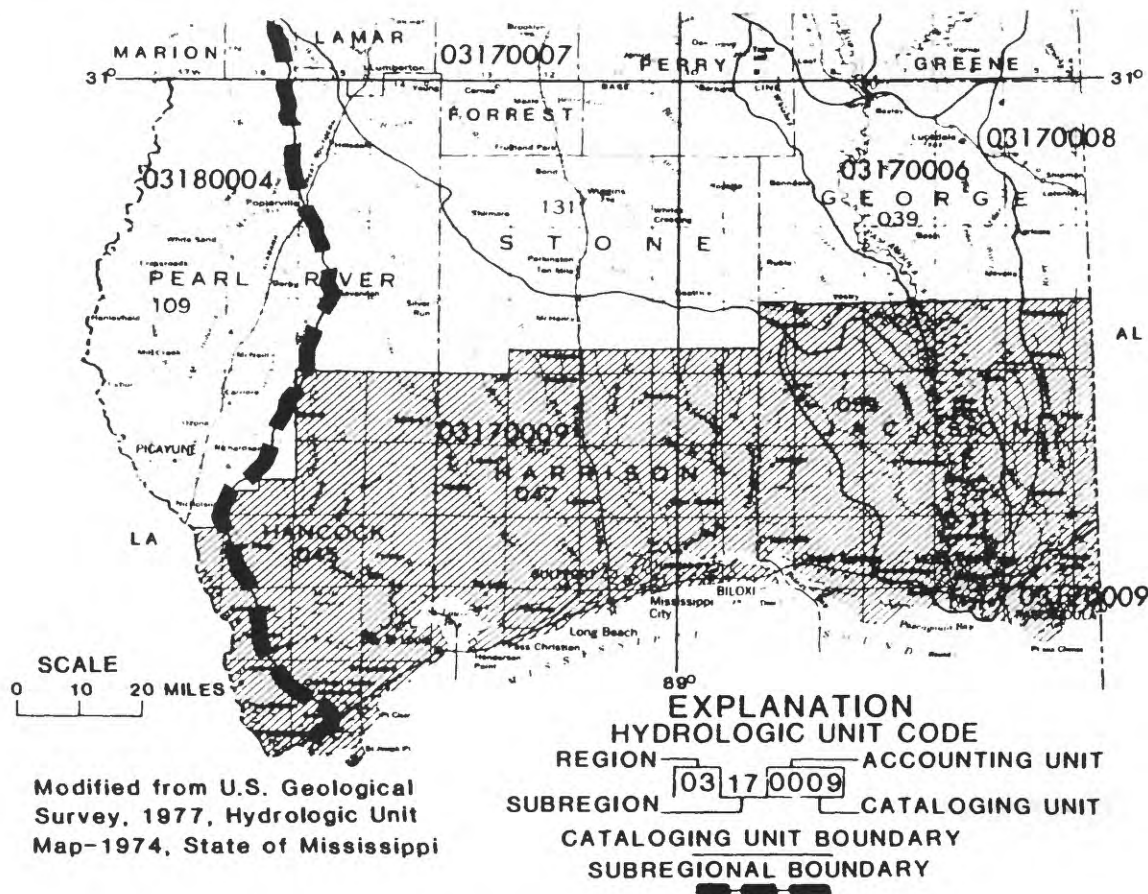
#### Pascagoula River

Surface water resources of Jackson County are dominated by the Pascagoula River and its local tributaries. The headwaters of the Pascagoula River lie in east-central Mississippi and the western edge of Alabama. The Pascagoula flows for about 264 miles and drains a total of 9,498 mi<sup>2</sup>. The average flow at Merrill is 9,873 ft<sup>3</sup>/s or 20.35 in/yr (table 2). The 7-day low flow for a 10-year recurrence is 898 ft<sup>3</sup>/s and a flow of 1,560 ft<sup>3</sup>/s is exceeded 90 percent of the time. The minimum flow since 1930 was 696 ft<sup>3</sup>/s on November 1936. The maximum flow at Merrill was 178,000 ft<sup>3</sup>/s in February 1961, at an elevation of 56.91 feet. National Weather Service information indicated that the flood of April 1900 reached an elevation of 58.7 feet and the flood of July 1916 reached an elevation of 57.2 feet. Time-of-travel studies are shown in table 3.

Black Creek, with a total drainage area of 1,265 mi<sup>2</sup>, is the largest tributary to the Pascagoula River in Jackson County. Daily discharge records are available since 1971 for Black Creek near Wiggins, Miss., (upstream from the study area) drainage area 701 mi<sup>2</sup>. The average discharge near Wiggins is 1,465 ft<sup>3</sup>/s and a flow of 2,590 ft<sup>3</sup>/s is exceeded 90 percent of the time (table 2). Time-of-travel data are shown in table 3.

Red Creek (total drainage area, 491 mi<sup>2</sup>) is tributary to Black Creek. Daily discharge records are available since 1958 for Red Creek at Vestry, Miss., drainage area 441 mi<sup>2</sup>. The average discharge at Vestry is 856 ft<sup>3</sup>/s a flow of 178 ft<sup>3</sup>/s is exceeded 90 percent of the time (table 2). Time-of-travel data are shown in table 3. A duration curve of daily flows for Red Creek at Vestry is shown in figure 4.





HYDROLOGIC UNITS, NAMES, AND AREAS, IN SQUARE MILES  
 FOR THE SOUTH ATLANTIC-GULF REGION 03 IN MISSISSIPPI

Sub-region No.	Accounting Unit	Cataloging Unit	Name of Hydrologic Unit	Drainage area (sq mi)	Valley length (mile)
17	00	06	Pascagoula River	9,498.43	264
		07	Black Creek	1,265.47	
		08	Escatawpa River	1,036.80	
		09	Coastal River basins		
			Jourdan River	390.87	41.8
			Bayou LaCroix	86.02	
			Bayou Bacon	41.57	
			Hickory Creek	67.27	
			Catahoula Creek	202.30	
			Wolf River	368.33	64.0
			Crane Creek	41.98	
			Murder Creek	32.26	
			Biloxi River	270.90	39.7
			Little Biloxi River	76.59	
			Saucier Creek	48.29	
			Tchoutacabouffa River	241.63	26.8
			Tuxachanie Creek	94.89	

This map and accompanying table delineate the "river basins" and the "Hydrologic Units" for a part of southern Mississippi. A river basin consists of a drainage system composed of a surface stream or a body of surface water together with all tributary surface streams and bodies of water. A river basin contributes runoff to a stream and is bounded by a drainage divide.

A Hydrologic Unit is a geographic area designated as a basis for cataloging and processing the large volumes of hydrologic data and other information. Hydrologic Units depict the basin areal planning units and form a

national system for cataloging hydrologic and other information in the National Water Data Network. The boundaries of Hydrologic Units coincide with those of river basins but also delineate areas such as intervening segments of drainage areas and islands, estuaries, coastal lands, and other similar areas that are not part of river basins. The Hydrologic Unit code consists of an eight digit code representing the Region, Subregion, Accounting, and Cataloging Unit. The Regions, Subregions and Accounting Units are aggregates of the Cataloging Units. The Mississippi coastal area is within the South Atlantic-Gulf Region (03) and two subregions (Nos. 17 and 18)

Figure 3.--River basins and hydrologic units in Mississippi coastal area.

Table 2.--Summary of streamflow data for Mississippi Gulf Coast

Map Number (fig. 1)	Stream and Location	Drainage Area (mi <sup>2</sup> )	Record Length (yrs)	Discharge ft <sup>3</sup> /s		Average Discharge ft <sup>3</sup> /s	Mean Low Flow (ft <sup>3</sup> /s)			Flow Duration ft <sup>3</sup> /s			
				Max.	Min.		10-yr frequency	1-day	7-day	30-day	*Q-10	Q-50	Q-90
1	Pascagoula River near Merrill, MS	6590	52	178000	696	9873	20.35	875	898	980	24900	5050	1560
2	Black Creek near Wiggins, MS	701	11	31500	133	1465	28.38	130	134	155	3280	815	2590
3	Red Creek at Vestry, MS	441	24	21500	88	856	26.36	111	114	128	1800	475	178
4	Escatawpa River near Wilmer, AL	506	28	30000	37	923	24.77	53.6	57.5	72.7	2200	435	120
5	Escatawpa River near Agricola, MS	556	9	18400	137	1268	30.97	116	119	132	2920	717	210
6	Tuxachanie Creek near Biloxi, MS	92.4	19	17700	1.6	177	26.01	2.7	2.8	3.8	406	52	8.6
7	Biloxi River at Wortham, MS	96.1	30	8420	1.1	187	26.42	2.0	2.2	3.3	442	64.7	7.8
8	Wolf River near Landon, MS	308	11	15800	44	668	29.45	41.3	43.6	53.1	1540	285	82.3
9	Pearl River near Bogalusa, LA	6573	43	129000	1020	9671	19.98	1180	1170	1290	27700	4530	1740

\* Q-10, 50, and 90 are discharges equalled or exceeded that shown 10, 50, and 90 percent of time, respectively.

Table 3.--Summary of time-of-travel studies  
(from Brahana and Dalsin, 1977, Table 7)

Date	Stream	Dye injection site or beginning of reach		End of reach		Length of reach (mi)	Travel time of peak concentration (hrs)	Mean velocity (mi/hr)
		Location	Discharge (ft <sup>3</sup> /s)	Location	Discharge (ft <sup>3</sup> /s)			
Aug. 1965	Pascagoula River	Gaging sta. at Merrill	1,680	Hwy. 26 near Benndale	--	14	17.25	0.81
Sept. 1965	do	do	3,040	do	--	14	13	1.08
Sept.-Oct. 1972	Wolf River	Hwy. 26 near Poplarville	7.88	Mouth of Cowpen Creek	16.9	10.3	121.5	0.08
do	do	Mouth of Cowpen Creek	16.9	Silver Run	38.0	6.6	43.75	0.15
do	do	Silver Run	38.9	Hwy. 53	50.0	12.8	53.25	0.24
do	do	Hwy. 53	57.0	Gaging sta. at Landon	60.0	13.2	43.5	0.30
do	do	Gaging sta. at Landon	124	Interstate Hwy. 10	193	8.8	15	0.59
1972	Red Creek	Hwy. 15	<sup>a</sup> 202	Hwy. 57	<sup>a</sup> 202	20.2	42.5	0.48
1972	do	do	<sup>a</sup> 382	do	<sup>a</sup> 382	20.2	30.25	0.67
Oct. 1972	Black Creek	Gaging sta. at Hwy. 49	87.3	Hwy. 29	98.1	18.0	54.25	0.33
do	do	Gaging sta. at Hwy. 26	165	Hwy. 57	168	20.2	46.5	0.43

<sup>a</sup>Discharge is 4.2 mi. above Hwy. 15; possible backwater in lower end of reach.

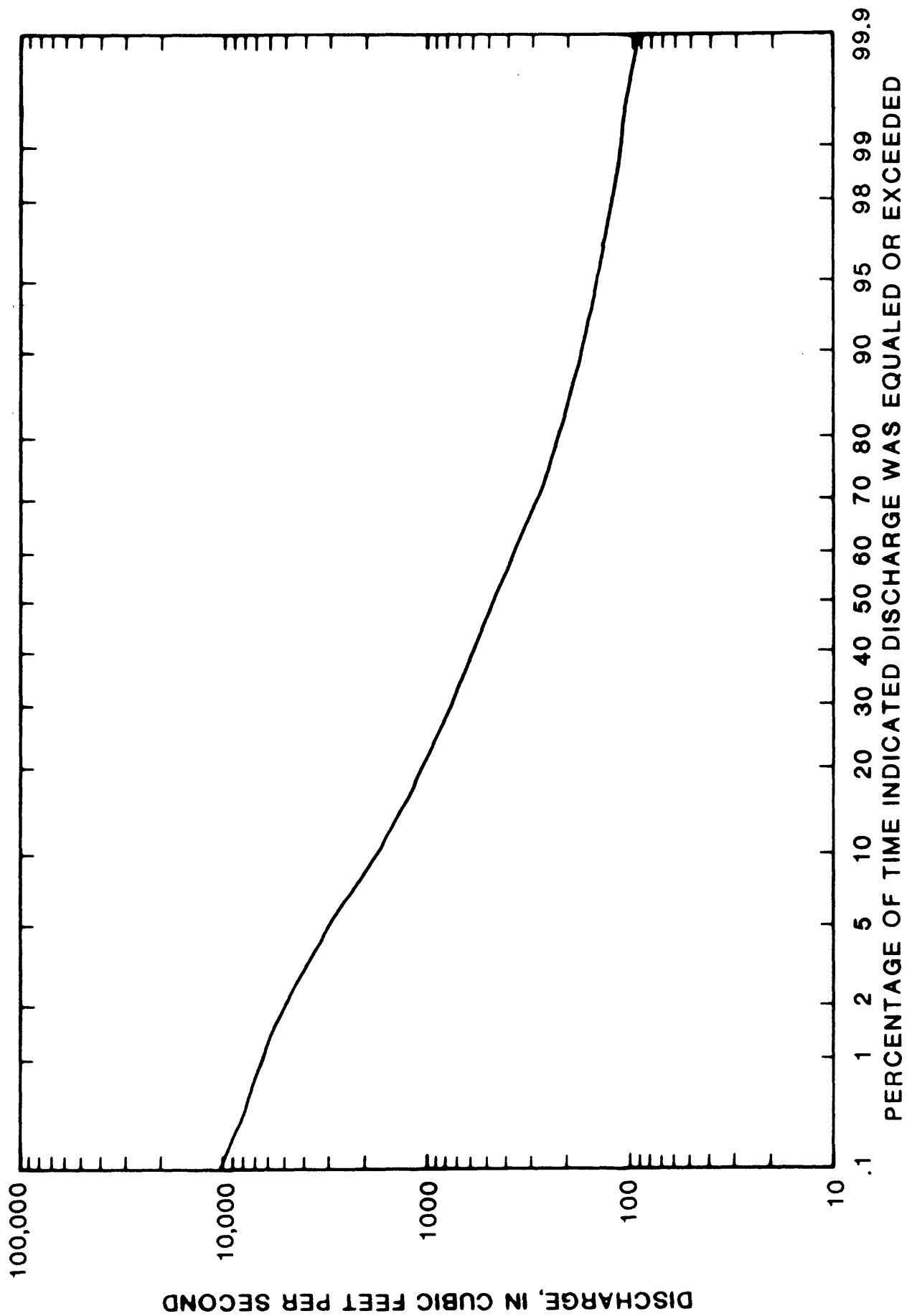


Figure 4.--Duration of daily flows, Red Creek at Vestry, Mississippi, 1958-82.



Escatawpa River (total drainage area, 1,037 mi<sup>2</sup>) is tributary to the Pascagoula River. Several large industries are located in the lower part of the mostly rural Escatawpa River basin. The penetration of saltwater in Escatawpa River was reported 15.5 miles upstream of its mouth on September 16, 1954 (Harvey and others, 1965). The minimum observed flow of 37 ft<sup>3</sup>/s occurred in 1954 on Escatawpa River upstream from the study area near Wilmer, Ala., (drainage area, 506 mi<sup>2</sup>). The average flow is 923 ft<sup>3</sup>/s and a flow of 120 ft<sup>3</sup>/s is exceeded 90 percent of the time near Wilmer (table 2).

Records since 1973 are available for Escatawpa River near Agricola, Miss., (drainage area 556 mi<sup>2</sup>). The minimum observed flow of 137 ft<sup>3</sup>/s occurred in 1978. The average flow is 1,268 ft<sup>3</sup>/s, and flow of 210 ft<sup>3</sup>/s is exceeded 90 percent of the time (table 2). A duration curve of daily flows for Escatawpa River near Agricola for the period 1973-83 is shown in figure 5. The maximum known flood reached an elevation of 72 feet in March 1929 on the gage near Agricola.

#### Tchoutacabouffa River

The eastern part of Harrison County and the western edge of Jackson County are drained by the Tchoutacabouffa River. The Tchoutacabouffa River basin, which contains 242 mi<sup>2</sup>, is mostly rural and lies primarily in the De Soto National Forest. The Tchoutacabouffa River flows south to a point just north of D'Iberville and then turns southwestward to enter the Back Bay of Biloxi near the mouth of Biloxi River. The principal tributary of Tchoutacabouffa River is Tuxachanie Creek (drainage area, 94.9 mi<sup>2</sup>). Other tributaries include Hurricane Creek, Bayou Billie, and Bayou Costapia.

The drainage area of Tuxachanie Creek is 92.4 mi<sup>2</sup> at State Highway 15 near Biloxi. The channel is about 26 miles long upstream of State Highway 15. The slope between points 10 and 85 percentile of the 26-mile distance is about 7 feet per mile. The average discharge of Tuxachanie Creek at State Highway 15 near Biloxi is 177 ft<sup>3</sup>/s (table 2). The 7-day low flow for a 10-year recurrence is 2.8 ft<sup>3</sup>/s. The flow in Tuxachanie Creek at State Highway 15 near Biloxi equals or exceeds 8.6 ft<sup>3</sup>/s 90 percent of the time (table 2). A duration curve of daily flows for Tuxachanie Creek near Biloxi is shown in figure 6.

#### Biloxi River

The Biloxi River along with its two principal tributaries, Little Biloxi (drainage area, 76.6 mi<sup>2</sup>) and Saucier Creeks (drainage area, 48.3 mi<sup>2</sup>), drain 271 mi<sup>2</sup> primarily in central Harrison County. The Biloxi River begins at an elevation of about 335 feet about 15 miles north of the Stone-Harrison County line, flows southeast for about 40 miles and discharges into Biloxi Bay (fig. 1). The streambed reaches sea level about 6 miles upstream of the mouth near Lyman.

Zero flow was observed in the Biloxi River at the gage near Lyman (251 mi<sup>2</sup>) in 1965 due to tide effect. The minimum discharge observed without tide effect, 41.3 ft<sup>3</sup>/s, occurred in 1966. The average

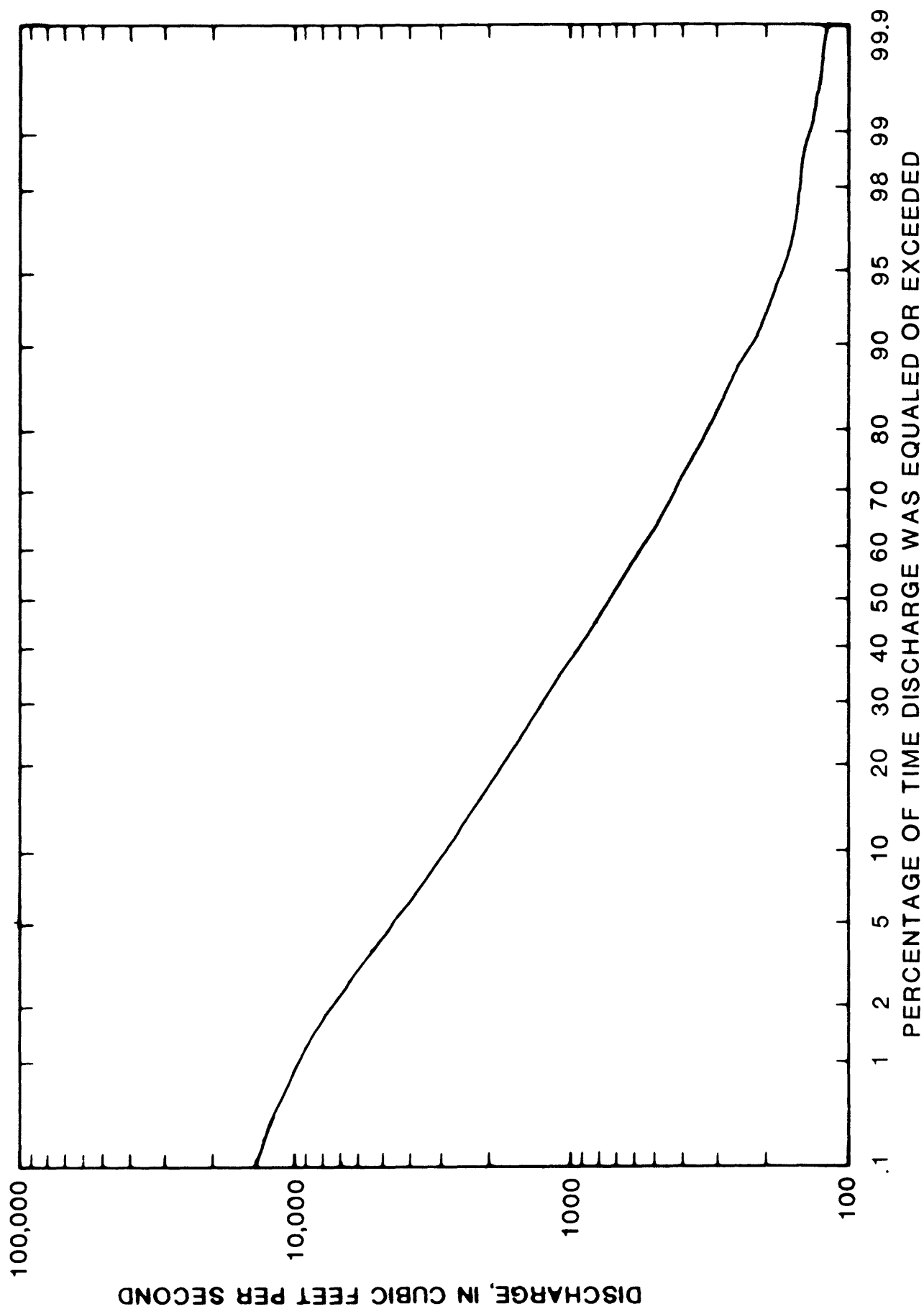


Figure 5.--Duration of daily flows, Escatawpa River near Agricola, Mississippi, 1973-83.

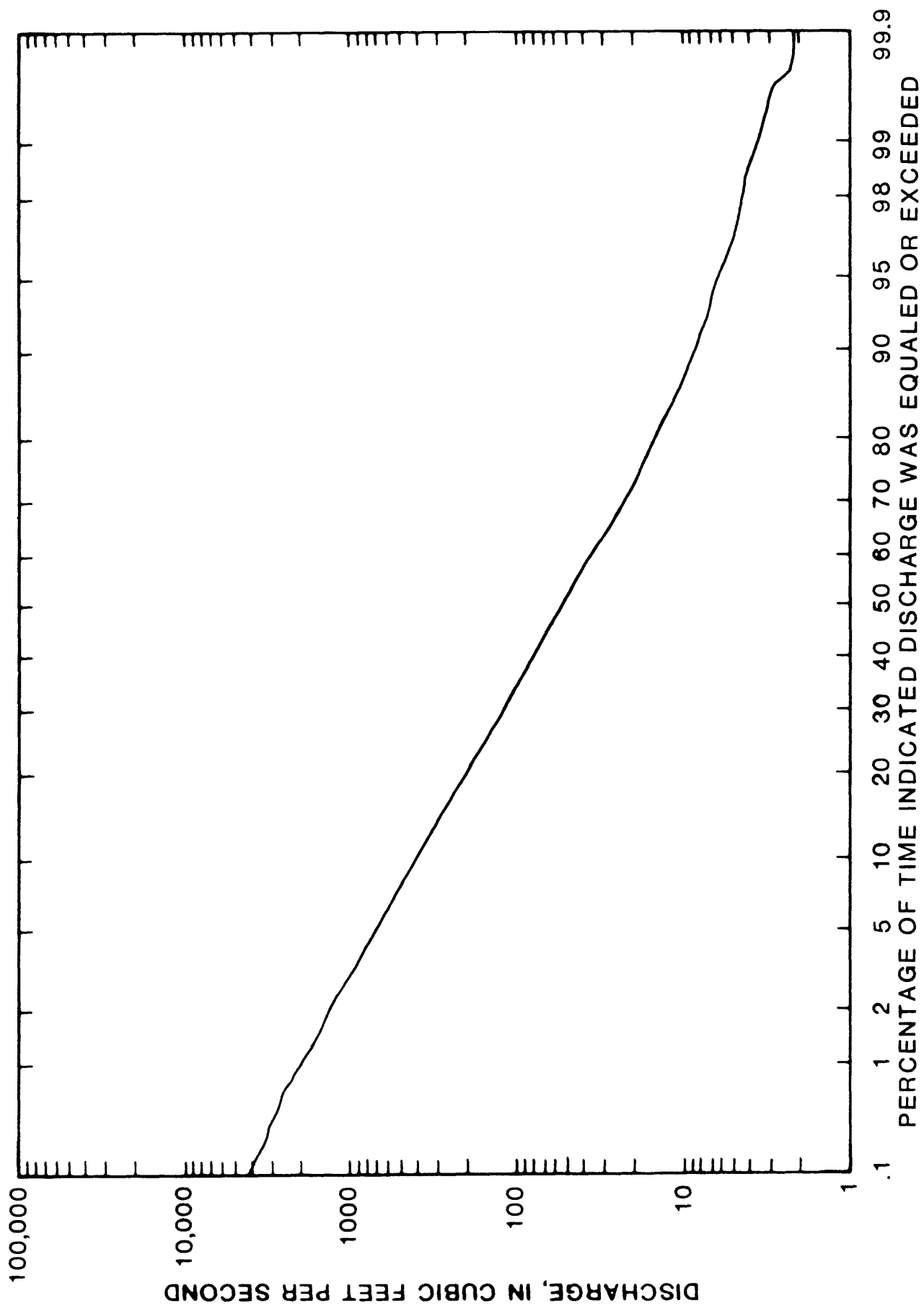


Figure 6.--Duration of daily flows, Tuxachanie Creek near Biloxi, Mississippi, 1952-71.

discharge of the Biloxi River at Wortham (96.1 mi<sup>2</sup>) is 187 ft<sup>3</sup>/s (table 2). The minimum discharge observed at Wortham of 1.1 ft<sup>3</sup>/s occurred on October 21, 1963. The 7-day low flow at Wortham for a 10-year recurrence is 2.2 ft<sup>3</sup>/s and a flow of 7.8 ft<sup>3</sup>/s is exceeded 90 percent of the time. A duration curve of daily flows for Biloxi River at Wortham is shown in figure 7.

The maximum elevation recorded on Biloxi River at Wortham since 1952 of 42.26 feet occurred on April 27, 1964. The flood of 1948 reached an elevation of 44.5 feet, and from the information by local residents, the floods of 1916 and 1928 reached about the same elevation.

The minimum discharge of 3.1 ft<sup>3</sup>/s observed on Saucier Creek near Wortham occurred in 1954. The minimum discharge of 3.4 ft<sup>3</sup>/s observed on Little Biloxi River near Lyman occurred in 1963.

#### Wolf River

The Wolf River drains 368 mi<sup>2</sup> including the western part of Harrison County and the northeastern corner of Hancock County. The main-channel length is about 64 miles from the drainage divide to the mouth in St. Louis Bay. The largest tributary with 42 mi<sup>2</sup> is Crane Creek.

Time-of-travel studies on Wolf River conducted in September-October 1972 are shown in table 3. Daily streamflow records are available for the gaging station at State Highway 53 for the periods October 1944 to June 1948 and September 1964 to September 1971 and for the gaging station near Landon from October 1971 to date. The average flow is 668 ft<sup>3</sup>/s or 29.45 in/yr at the site near Landon. The 7-day low flow for a 10-year recurrence interval is 43.6 ft<sup>3</sup>/s (table 2); a discharge of 82.3 ft<sup>3</sup>/s is equaled or exceeded 90 percent of the time. A duration curve of daily flows for Wolf River near Landon, Miss., is shown in figure 8.

#### Jourdan River

Most of Hancock County is drained by the Jourdan River, which flows southeast across the central part of the county. Including Catahoula Creek, the principal tributary, the Jourdan River flows for about 42 miles before emptying into St. Louis Bay (fig. 1). Bayou LaCroix drains Devils Swamp from the west and enters Jourdan River just upstream of St. Louis Bay. The total drainage area of 391 mi<sup>2</sup> is mostly rural with urban areas concentrated along the coastline near Bay St. Louis, Miss.

Other tributaries to Jourdan River include Bayou Bacon, Rotton Bayou, and Dead Tiger, Mill, and Hickory Creeks.

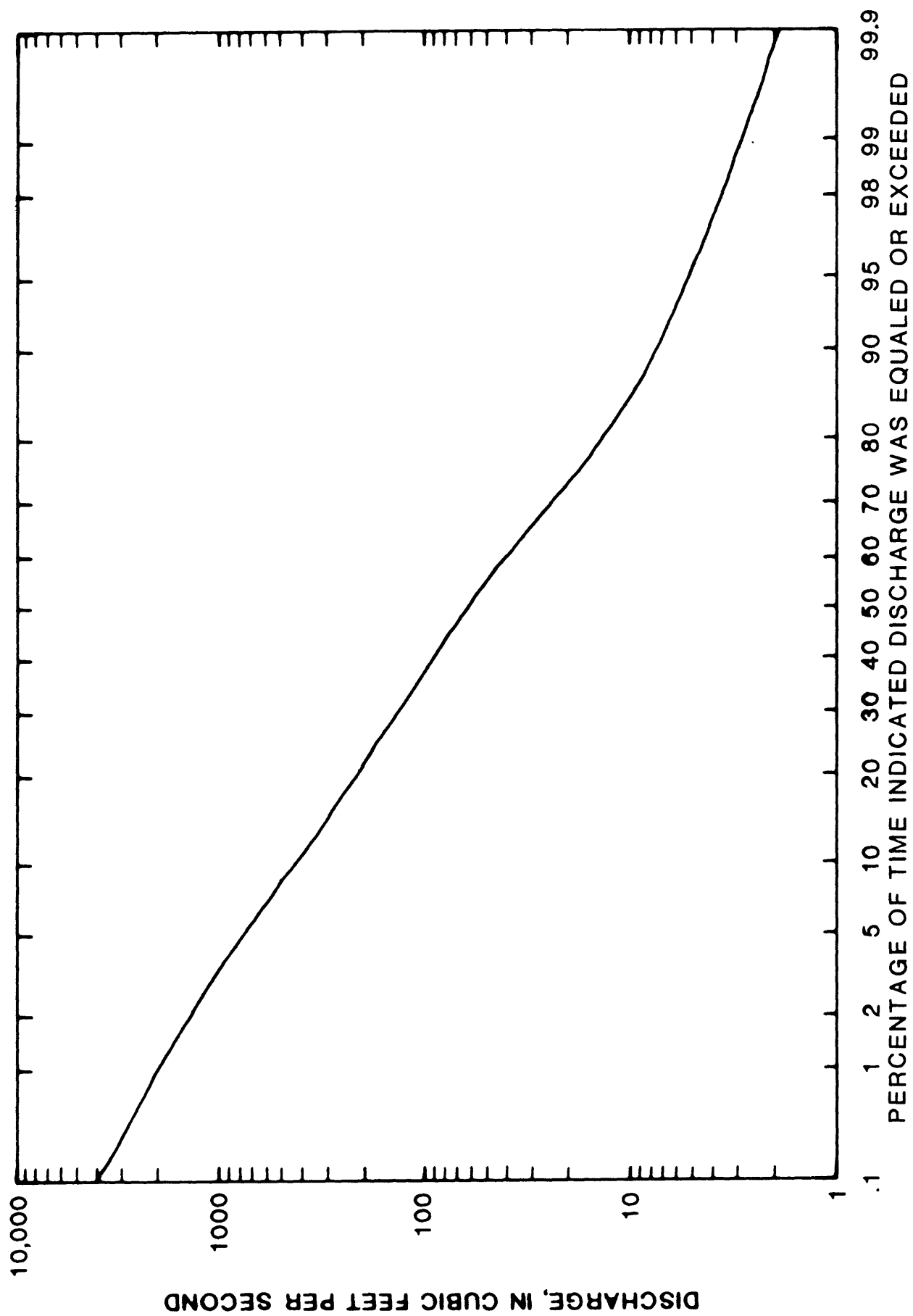
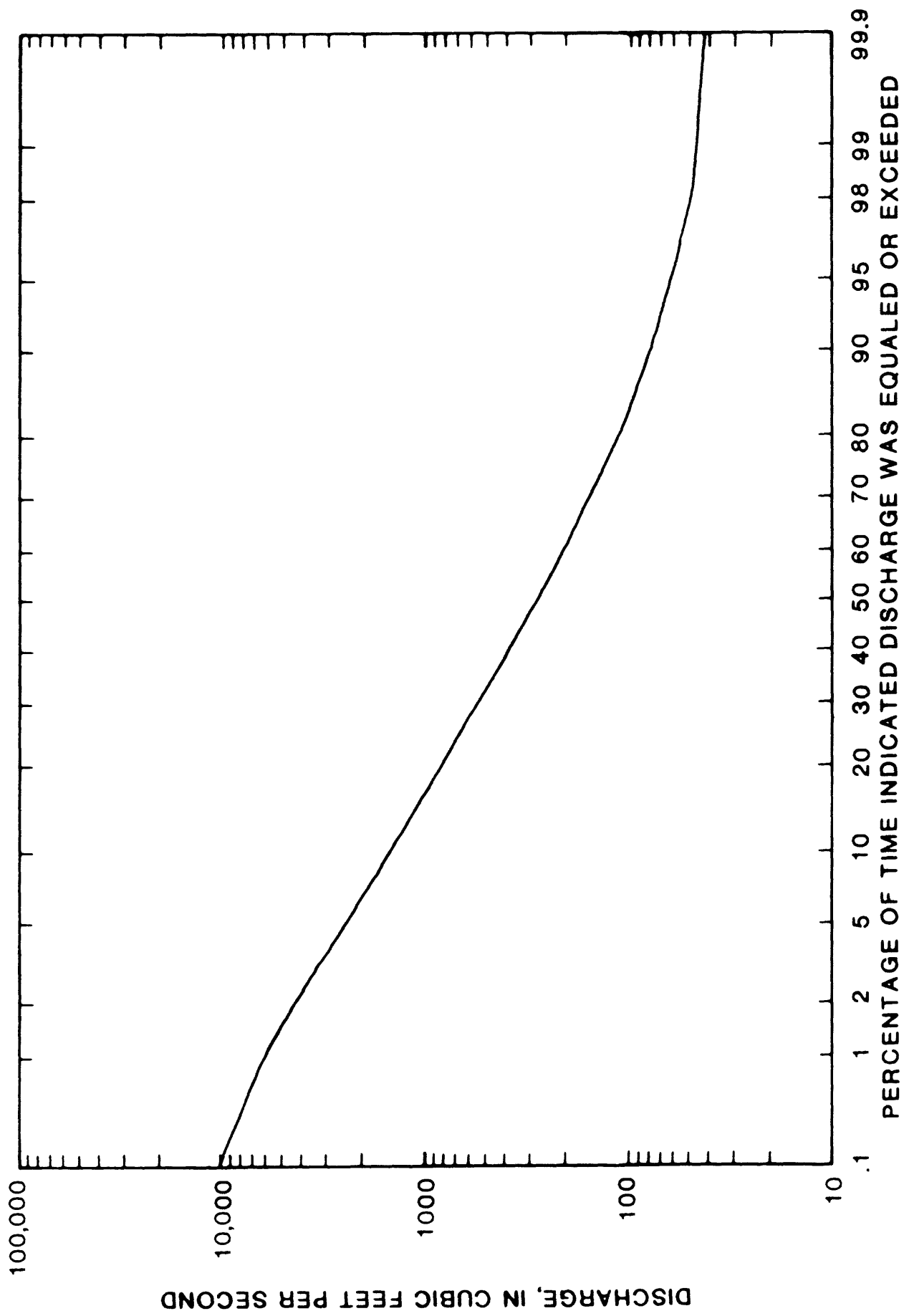


Figure 7.--Duration of daily flows, Biloxi River at Wortham, Mississippi, 1952-82.



## Pearl River

The Pearl River basin drains 8,674 mi<sup>2</sup> of which about 7,750 mi<sup>2</sup> are in Mississippi and the remainder in Louisiana. The Pearl River forms the boundary between Louisiana and Mississippi for about 112 miles.

The most downstream continuous record station is Pearl River near Bogalusa, La. The drainage area at this site is 6,573 mi<sup>2</sup> and the average discharge 9,671 ft<sup>3</sup>/s (table 2). The 7-day low flow for a 10-year recurrence is 1,170 ft<sup>3</sup>/s and the minimum observed discharge of 1,020 ft<sup>3</sup>/s occurred in 1963. A duration curve of daily flows for Pearl River near Bogalusa is shown in figure 9.

### Surface-Water Quality

Streamflow and water-quality data are obtained by the U.S. Geological Survey from a network of sites (fig. 1). The U.S. Geological Survey currently operates two continuous-record stations and four partial-record stations in the area. Specific hydrologic information has been collected at numerous sites in the three-county area as a result of various projects. An index to water-quality data available from the U.S. Geological Survey is given in Appendix A.

Surface waters in the streams of the area are generally suitable for most uses. Chemical analyses indicate that the water in freshwater streams is generally soft, acidic (5.0 to 7.0 pH units), with low concentrations of dissolved solids. Hardness is usually less than 50 mg/L and the dissolved-solids concentrations less than 100 mg/L. The concentrations of dissolved oxygen are usually greater than 4 mg/L, which is sufficient to support a healthy fish population (Brahana and Dalsin, 1977). Discharge of waste into streams increases the dissolved-solids content and decreases the dissolved oxygen depending on the amount and types of waste material. Dissolved solids derived from ground-water discharge increases the dissolved mineral content of streams during low flow periods. Tannic acid, leached from decaying vegetation, is a source of high color in some streams. Suspended-sediment concentrations in streams generally are low but occasionally exceed 100 mg/L during periods of storm runoff (Newcome and others, 1968).

The movement of saltwater upstream during high tide causes mixing with freshwater and increases the dissolved solids concentrations in estuarine streams. The distance upstream and extent of the increase in dissolved-solids concentrations is dependent on freshwater stream discharge and tide stage. Saltwater intrusion was reported 10 miles upstream of the mouth of Jourdan River on March 5, 1974. Penetration of saltwater in Escatawpa River was reported 15.5 miles upstream of its mouth on September 16, 1954 (Harvey and others, 1965). The streambed of Wolf River is below sea level for at least 10 miles upstream of the mouth (Newcome and others, 1968). There is a potential for saltwater encroachment on all coastal streams where the thalweg is below sea level.

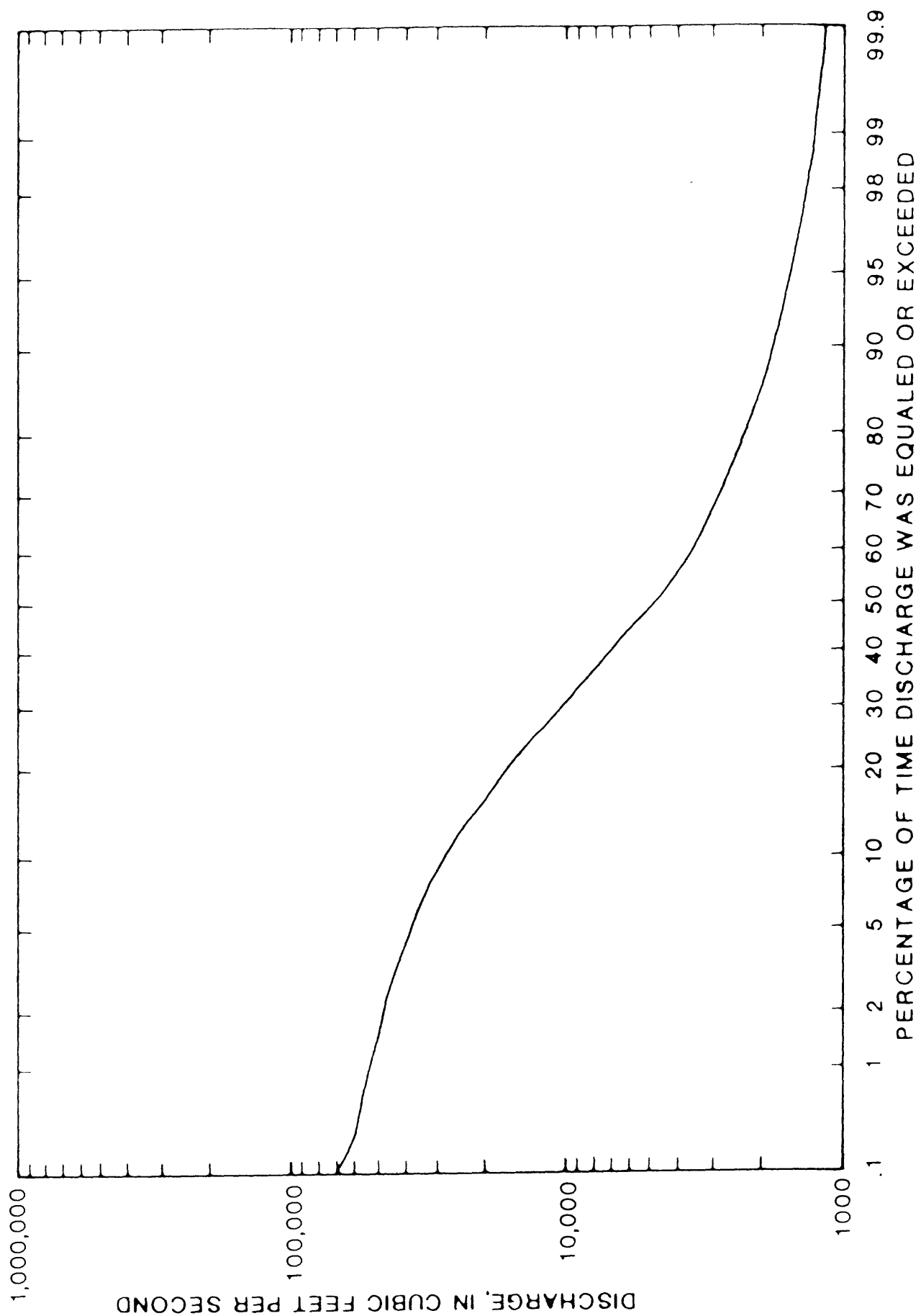


Figure 9.--Duration of daily flows, Pearl River near Bogalusa, Louisiana, 1938-83.



## Floods

The Mississippi Gulf Coast is subject to floods from two distinct sources (1) headwater floods caused by excessive precipitation on the drainage basins and (2) hurricane induced flood tides along the coast. It is beyond the scope of this report to discuss all areas of known flooding. Instead, the intent of this section is to identify some of the flood-plain management activities and flood studies, past, present, and future.

The city and county communities in the three-county area have taken various approaches toward managing flood-prone areas. As a result of Hurricane Camille in August 1969, a series of 12 hydrologic atlases were prepared by the U.S. Geological Survey that delineated Hurricane Camille flood boundaries (fig. 10). Additional data are presented that express the relation of high-tide elevations at Biloxi to the probability of being equaled or exceeded in any year.

All three coastal counties and nine cities are covered by Flood Insurance Administration maps (fig. 11). These maps delineate the 100- and 500-year flood boundaries. Velocity zones have been delineated along the coastline of the three counties.

Information on peak stages, discharges, and flood statistics is available for the sites of U.S. Geological Survey continuous-recording stations (fig. 1). At other stations that record only peak stages, the U.S. Geological Survey has calculated peak discharges from stage-discharge relationships.

## Tidal Records

Records of storm tides for the Mississippi coast since 1882 have been recorded at Biloxi by the Corps of Engineers and others. A tide gage is located near the center of the Louisville and Nashville Railroad bridge across the Back Bay of Biloxi. Tide gages with much shorter records are operated by the Corps of Engineers at Mobile and Dauphin Island, Ala., and Pascagoula and Pearlinton, Miss. Significant tide elevations at various points along the Mississippi coast for more than 20 hurricanes since 1893 have been recorded by the Corps of Engineers, the U.S. Geological Survey, and others. Data pertaining to some of the highest tides of record are shown in table 4.

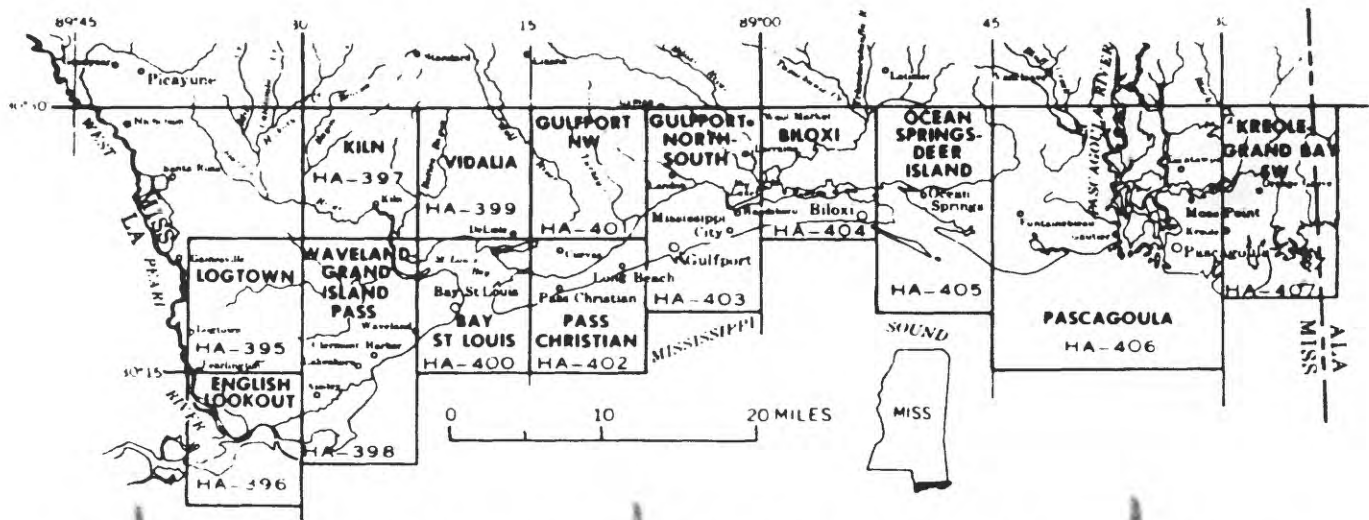


Figure 10.--Index map of the Mississippi Gulf Coast showing location of quadrangles for which flood boundaries of Hurricane Camille are delineated.

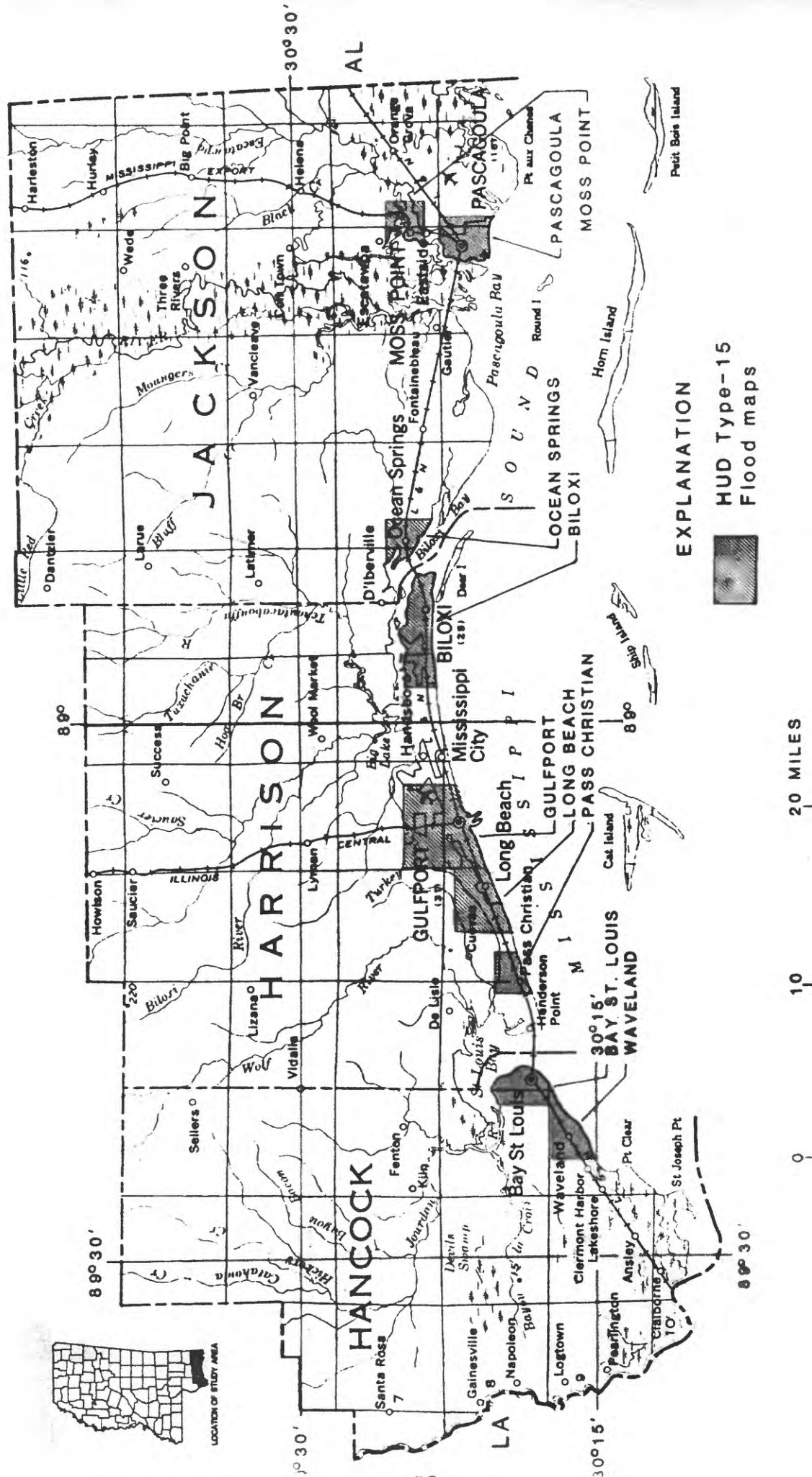


Figure 11.--Index of Federal Insurance Administration maps

Table 4.--Hurricane tide elevations along the Mississippi Gulf Coast

[from U.S. Geological Survey Hydrologic Atlas, HA-407]  
Elevations in feet above sea level.

	Oct. 2 1893	Sept. 27 1906	Sept. 20 1909	Sept. 29 1915	July 5 1916	Sept. 19 1947	Sept. 10 1965	Aug. 18 1969
Waveland	10.8	--	*	--	--	--	12.7	--
Bay St. Louis	--	--	*	11.8	13.7	15.2	12.5	21.7
Henderson Point	--	--	*	--	--	13.4	10.8	16.5
Pass Christian	10.8	--	*	12.8	--	--	--	24.2
Long Beach	--	--	*	--	--	14.0	12.3	21.0
Gulfport	--	--	*	9.0	--	14.0	10.2	20.1
Biloxi	--	6.2	*	9.0	4.3	11.1	8.6	15.5
Pascagoula	--	--	*	--	--	7.7	6.4	8.5

\* 8 to 12 feet above normal tide

## GROUND WATER

The Mississippi Gulf Coast area is rich in ground-water resources. The first flowing artesian well is reported to have been drilled in 1884 and until recent years the population along the coast had been supplied with water by flowing wells that had artesian heads as high as 60 to 80 feet above sea level. The drilling firms operating in the coastal area reported to G. F. Brown (1944, p. 66) that a total of 83 wells had been drilled by 1901 and by 1903 there were 119 wells, the deepest of which was 1,550 feet. By 1979, U.S. Geological Survey files contained records for about 4,200 wells located within about 6 miles of the coastline. In 1984, there are about 5,000 wells and the number continues to increase. A description of major wells is given in table 5.

The large number of major wells in the area (fig. 12) reflect the abundance of fresh ground water and the growth of population and industry along the coast. A favorable aspect of the ground-water resources is quality; many of the wells produce water that requires little or no treatment for general use (Newcome and others, 1968). The availability of ground water is enhanced by the artesian pressures in the deeper aquifers that result in the natural flows or near-surface water levels that persist until today, except in areas where large volumes of water have been withdrawn.

### Aquifers

The south-southwestward slope of the older stratigraphic units is the result of long-term geologic subsidence in the Gulf Coast geosyncline. The younger units exhibit successively less southwestward slope, and most of the units thicken down the dip to the southwest (Rainwater, 1962, fig. 25). Sediments are composed mostly of clay, silt, and sand. Irregular gravelly sand beds occur throughout the Miocene and Pliocene age deposits.

The distribution of the ground-water resource is not uniform and the freshwater zone thickens westward from the Alabama line to Hancock County (Brown and others, 1944). The number of major aquifers underlying the coast has not been established, but water-level differences indicate that several separate water-bearing zones probably underlie most of the coastal area. The water-bearing zones are composed of discontinuous sandy beds that are highly irregular in thickness and areal extent. Figure 13 is modified from a geohydrologic section across Hancock County (Newcome, 1967a) that demonstrates typical subsurface conditions in the coastal area.

The geohydrologic conditions in the Mississippi coastal area are illustrated in figures 14, 15, and 16. The relative positions of the water-bearing units and the freshwater-saltwater boundaries are shown schematically and representative water wells show the range of development.

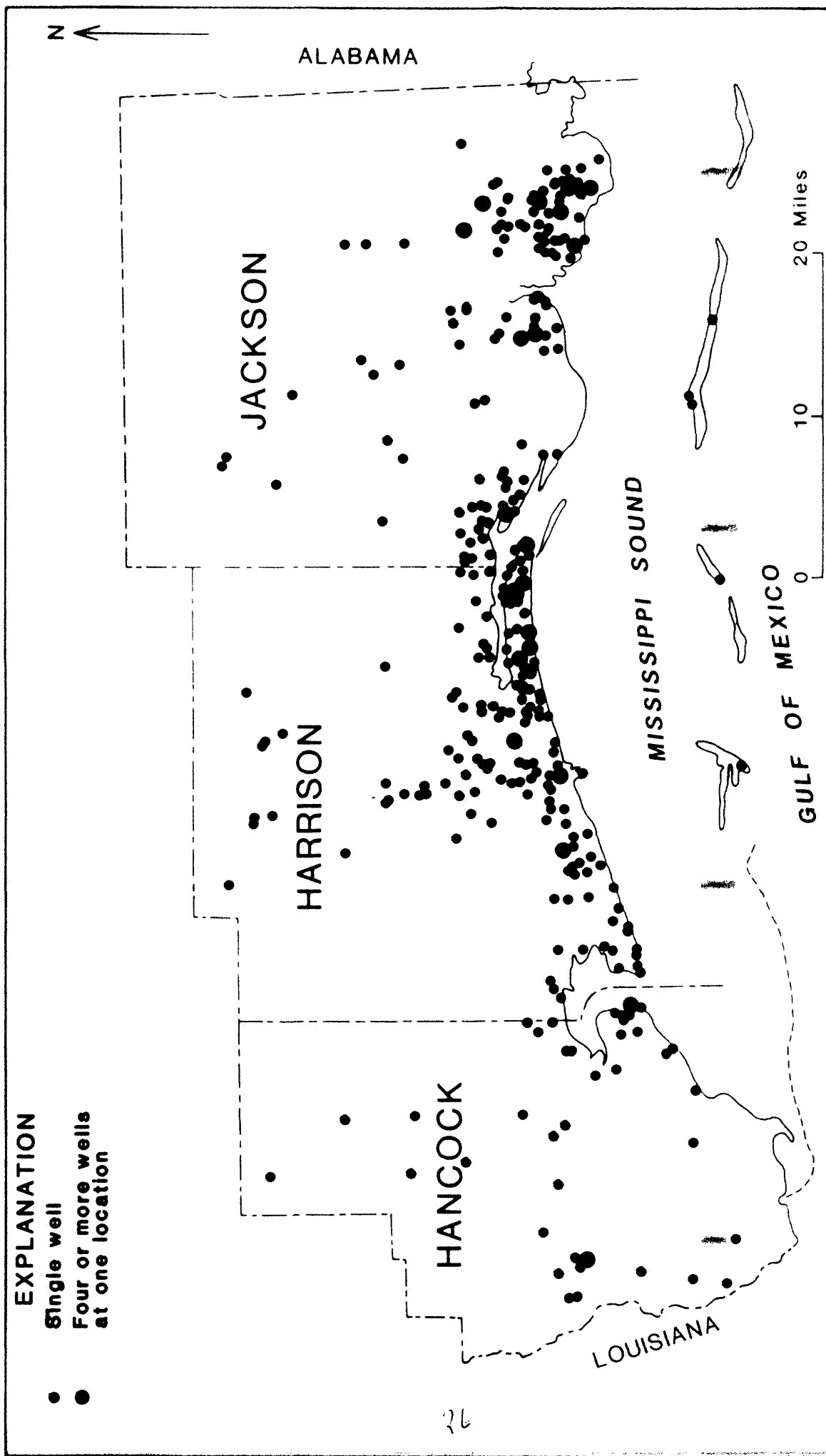


Figure 12.--Density of major water wells in Mississippi gulf coast area. (All wells five inches or larger in diameter for which records are on file)

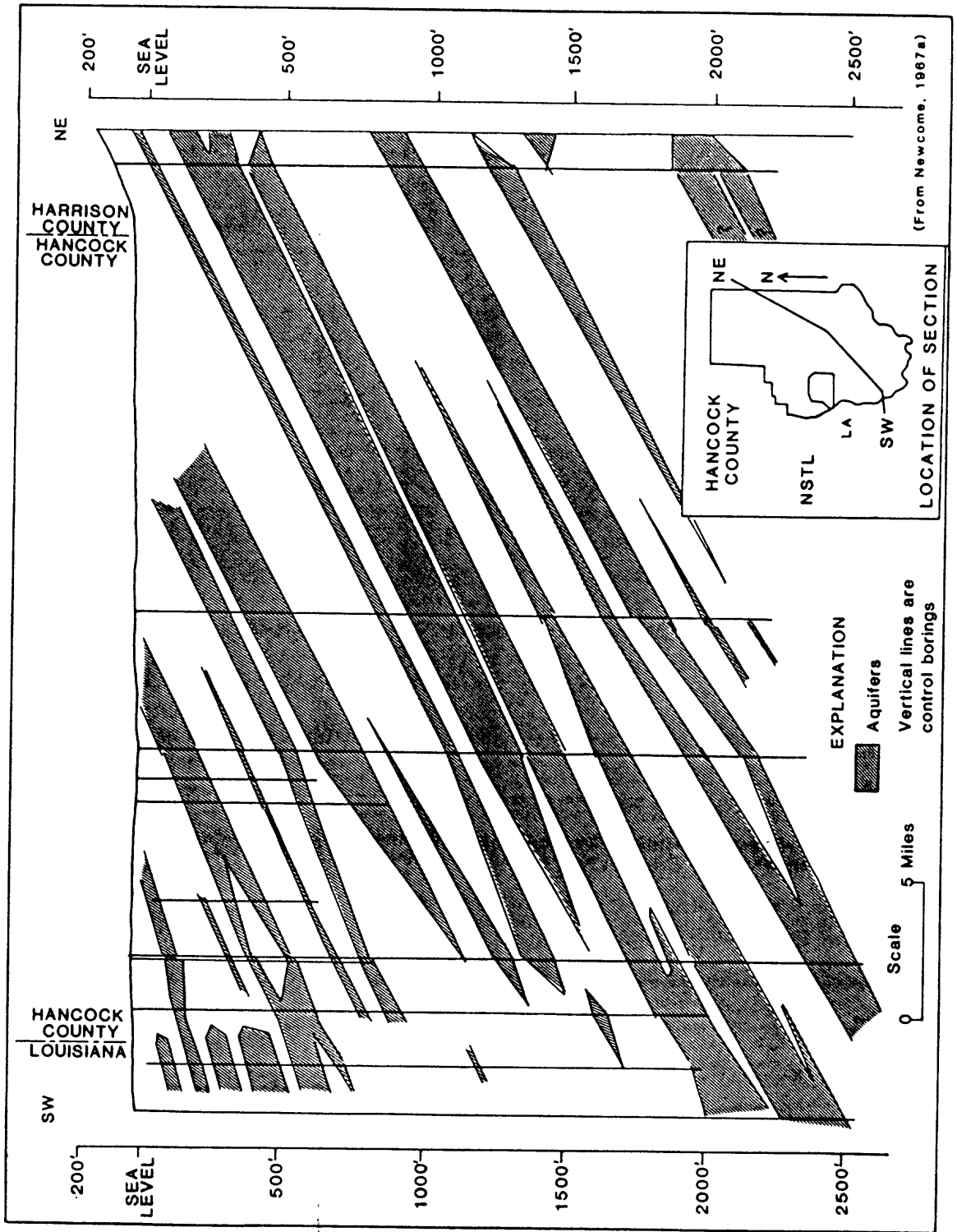


Figure 13.--Geohydrologic section of Hancock County.

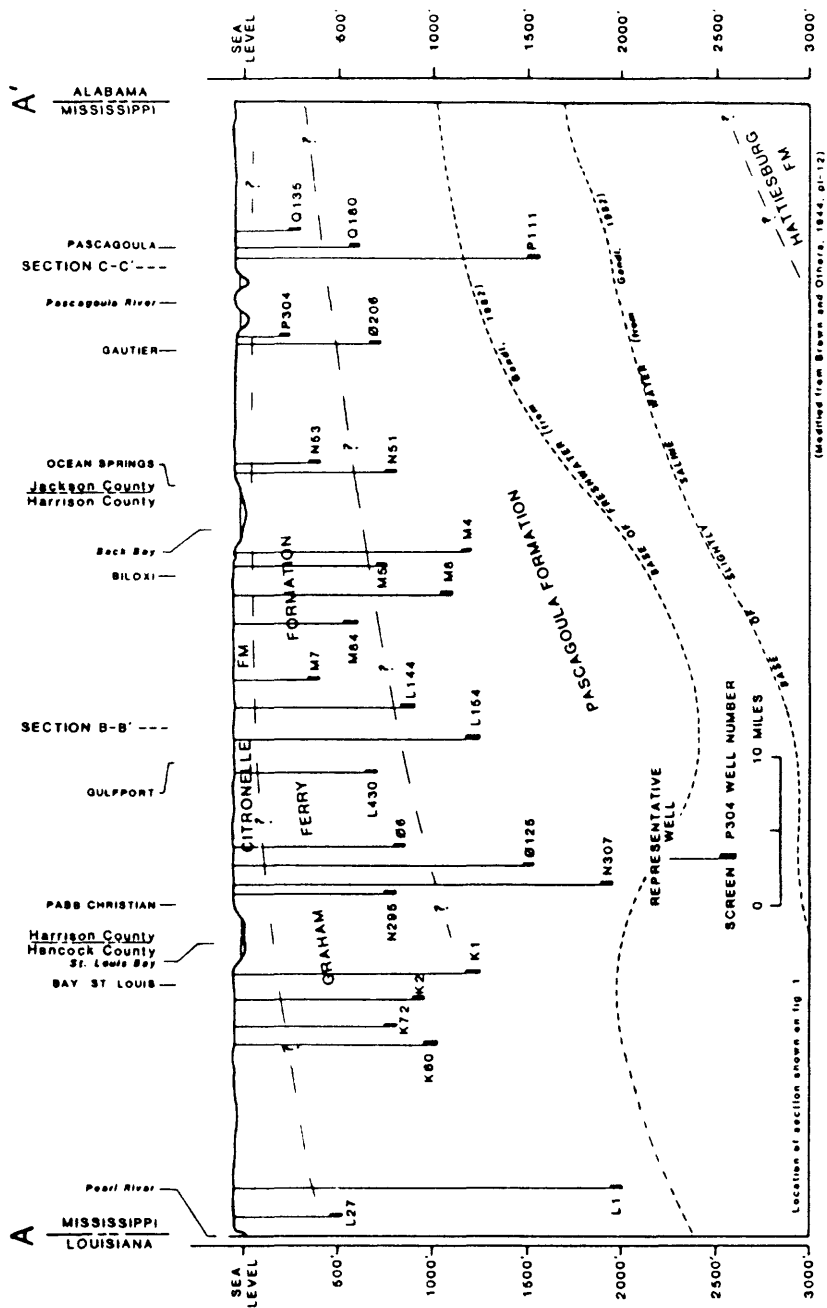
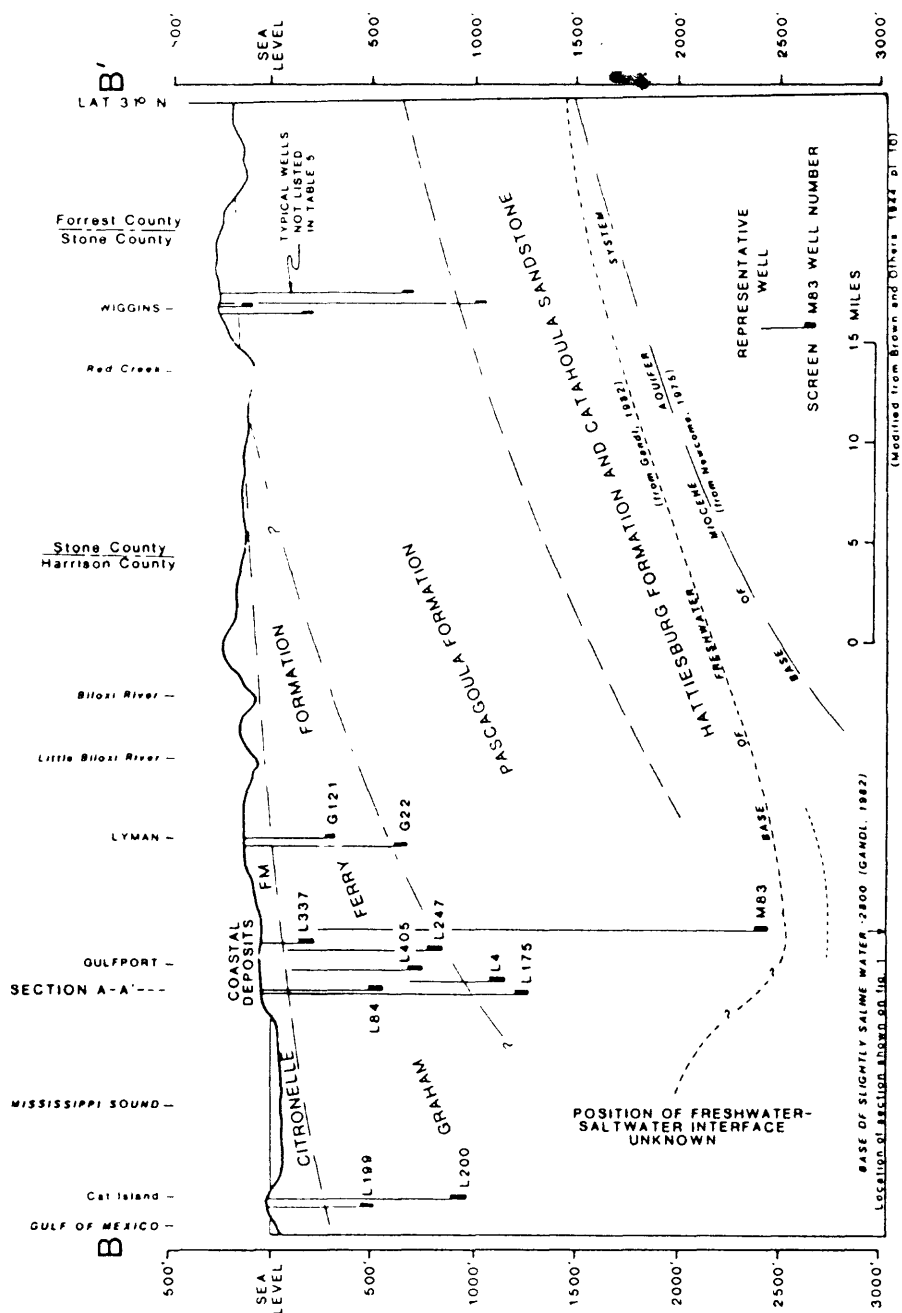


Figure 14.--Geohydrologic section A-A' along Gulf from Pearl River to Alabama.





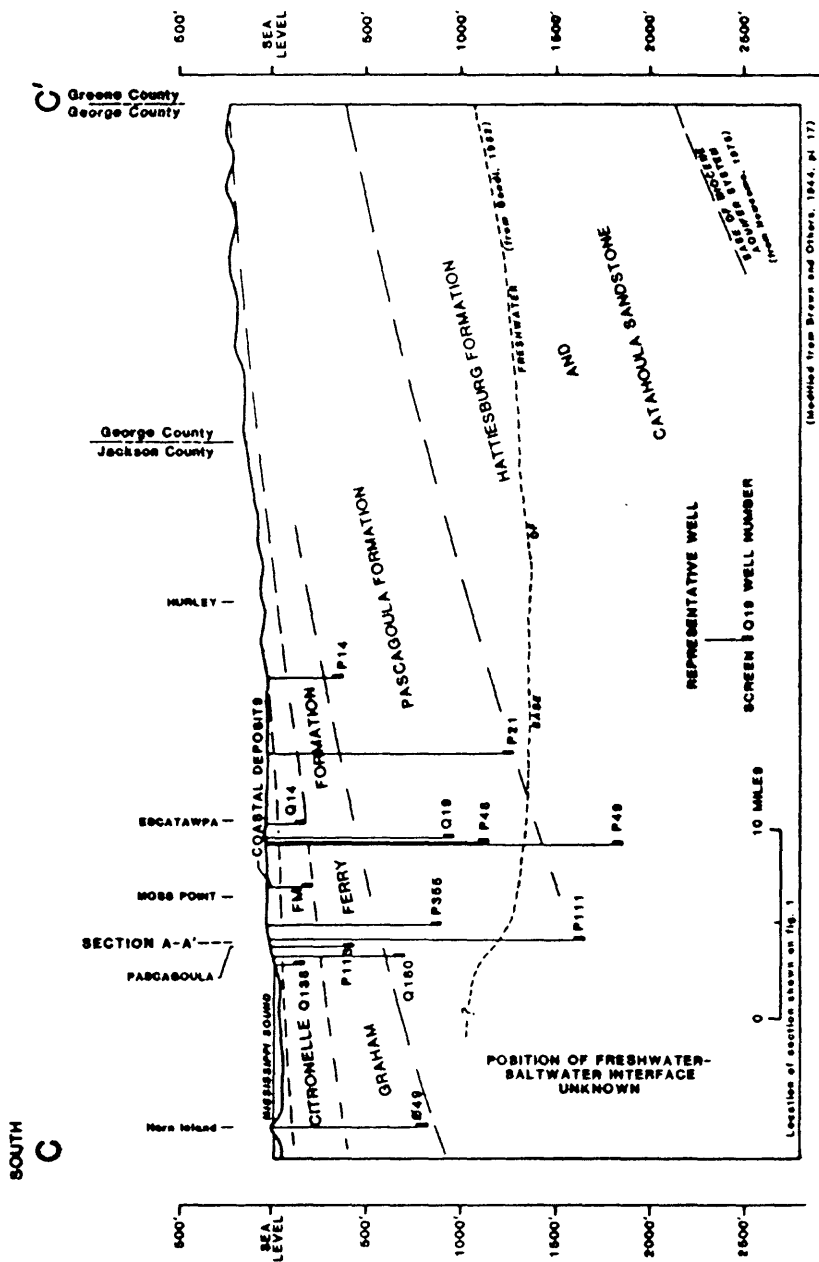


Figure 16.—Geohydrologic section C-C' from Horn Island to Greene County, Mississippi.

Aquifers in the gulf coastal counties include the Miocene aquifer system (Newcome, 1975), the Citronelle aquifer (Boswell, 1979) and aquifers in younger alluvial and coastal deposits (table 1). According to Newcome (1975),

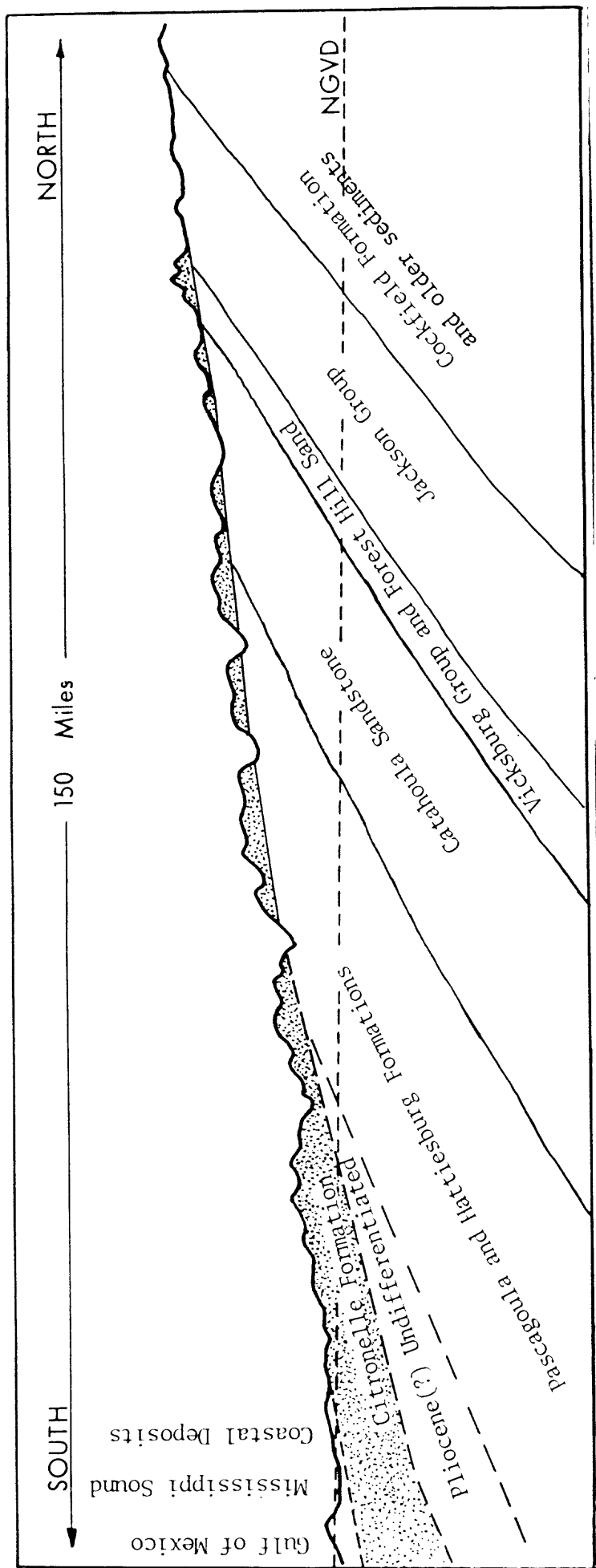
"The Miocene sequence in southern Mississippi has been subdivided by some workers into the Pascagoula Formation, Hattiesburg Formation, and Catahoula Sandstone--from youngest to oldest--but these divisions cannot be reliably identified or traced in the subsurface. Likewise, a 400- to 900-foot thick unit at the top in the coastal counties has been identified as Pliocene in age on the basis of fossil evidence and assigned the name Graham Ferry Formation. Again, the unit cannot be distinguished from the next lower formation by lithological, geophysical, ~~for~~ hydrological means. Consequently, all the material between the Citronelle Formation, a blanket deposit of Pliocene age, and the limy Vicksburg Group of Oligocene age is herein considered to compose the Miocene aquifer system."

Although the formational subdivisions of the Miocene Series are not accepted by all authors, the units as delineated by Brown and others (1944, plates 7, 10, and 12) are useful in defining water-bearing zones and in general correlations of aquifers in the coastal area.

The Citronelle Formation, a blanket-type deposit that partly overlies the recharge areas of all older coastal aquifers (fig. 2), is relatively flat-lying, sloping southward at a rate of less than 10 feet per mile (Boswell, 1979). Erosion has dissected the formation, and valleys a few miles north of the coast are incised into the underlying formations. According to Brown (1944) near the coast the Citronelle questionably has continuity into the subsurface and is covered by younger deposits (fig. 2). Minor aquifers occur in alluvial deposits in the larger valleys and in the younger coastal deposits that overlie the Citronelle Formation.

The source of water in all coastal aquifers is precipitation on the outcrop (recharge) areas. The water initially moves downward until it reaches the water table or a layer of impermeable material. Water then moves laterally until it discharges into streams or moves generally southward down the dip beneath confining beds toward areas of artificial discharge (pumping wells) or natural discharge (upward leakage to shallow sediments or to the sea beyond the barrier islands).

Identification of recharge areas is complex, because of the blanket-type deposits of the Citronelle Formation that overlie the older aquifers (fig. 17). Much of the precipitation is first absorbed by and stored in the highly permeable Citronelle and subsequently moves into the underlying aquifers or discharges into streams. The rate and volume of recharge is controlled by the hydraulic head in the aquifers and the thickness, character, and degree of interconnection of beds. Inland recharge areas are considerably above sea level. The regional hydraulic



(From Boswell, 1979)

Figure 17.--Citronelle Formation and its relation to underlying aquifers.

gradient is low, less than 5 feet per mile, and the gulfward slope is interrupted by cones of depression where large volumes of water are pumped (fig. 18). Generally, the recharge areas lie to the north-northeast (fig. 2). Newcome and others (1968) concluded that the shallowest aquifers that are commonly tapped by large capacity wells along the coast are "replenished in an east-west band that crosses the south end of Stone County" and that the aquifers that occur at intermediate depths along the coast are recharged in an east-west band at the latitude of Wiggins. The deepest freshwater aquifer receive recharge in an area north of the latitude of Wiggins. The deepest aquifers that contain freshwater just north of the study area in Pearl River, Stone, and George Counties contain saline water in the coastal counties (Gandl, 1982).

Wells on the barrier islands confirm that freshwater in some of the coastal aquifers occurs at least as far south as the islands, and the relatively low dissolved-solids content of water from these wells indicates that the freshwater-saltwater interface in the shallow to moderately deep zones is probably some miles to the south of the islands. The deepest water wells on the island do not exceed 1,200 feet and thus the Gulfward extent of freshwater in the deeper coastline aquifers is unknown.

The source of most fresh ground water used in the Gulf Coast area is the upper part of the Miocene aquifer system in strata considered to belong to the Graham Ferry Formation as defined by Brown (1944, plate 12). In the Pascagoula area, the entire freshwater section of the Miocene aquifer system is developed, but from Gulfport westward only a few wells penetrate the lower part of the system (figs. 14, 15, and 16).

Recent studies (Gandl, 1982) show that the base of the freshwater zone in the system increases in depth from about 1,200 feet east of Pascagoula to more than 2,400 feet in the Gulfport area and to about 2,000 feet at the mouth of the Pearl River and that the deepest freshwater extends slightly below 3,000 feet (fig. 19) in the western part of Hancock County. The base of the slightly saline zone increases from about 1,800 feet east of Pascagoula to about 3,200 feet in western Hancock County. The depth to the base of the moderately saline zone increases from 2,000 feet to over 3,600 feet in the same area (fig. 19).

Most large wells in the coastal counties are made at depths ranging from about 400 to about 1,000 feet and only a few wells exceed 1,200 feet in depth (table 5). Among the exceptions are a well 1,900 feet deep in Port Bienville Industrial Park (Hancock County) and a 2,400-foot well drilled recently at Gulfport. Wells commonly produce 500 to 1,000 gal/min. Very high pumping rates are feasible in some places; for example, the highest measured pumping rate was 5,865 gal/min from a 672-foot well at National Space Technology Laboratories (Newcome, 1967a, p. 12).

# EXPLANATION

— -40 — POTENTIOMETRIC CONTOUR—Shows approximate altitude at which water level would have stood in tightly cased wells. Contour interval 20 feet. Datum is sea level.

● DATA POINT—Water-well location

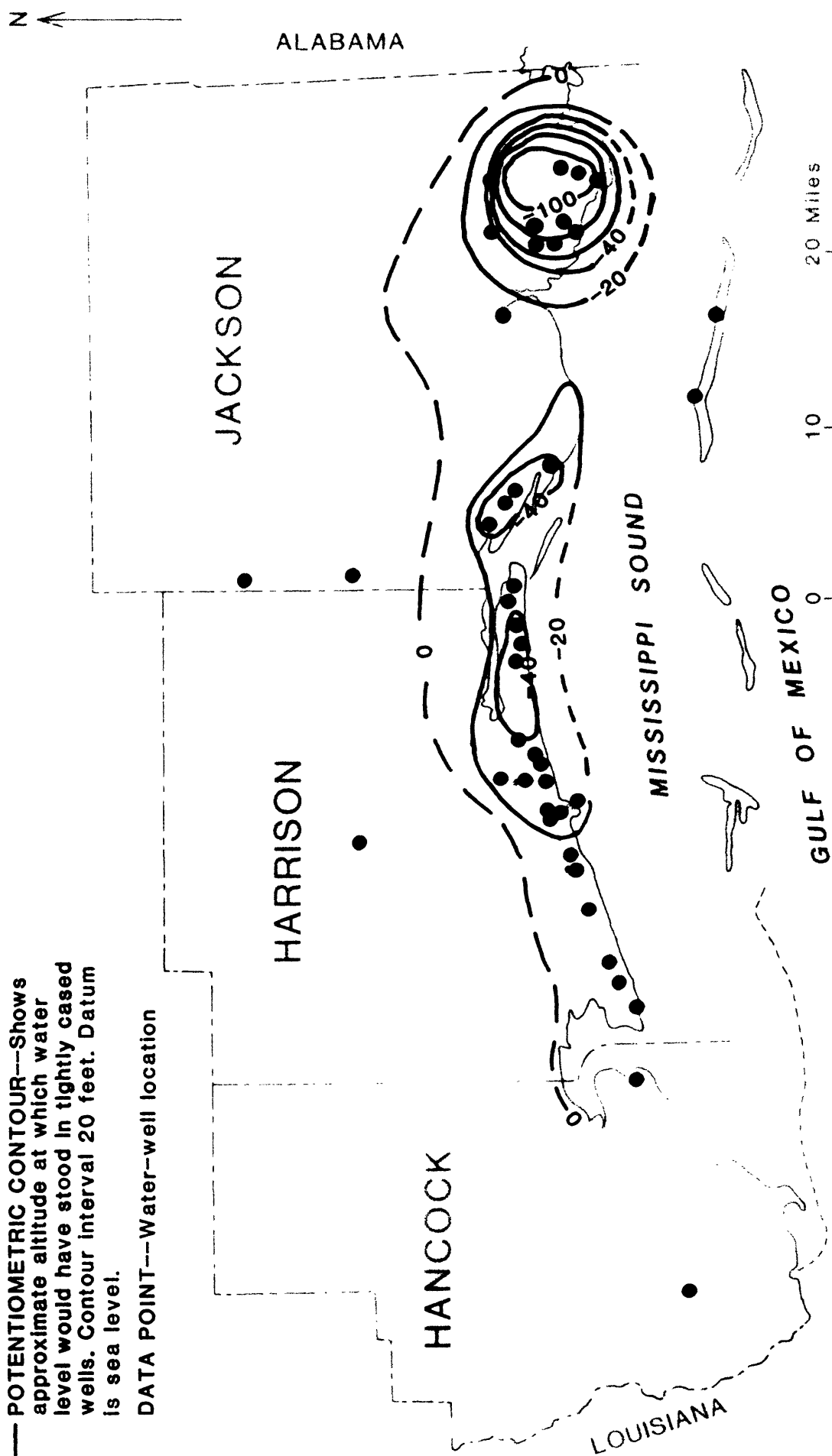
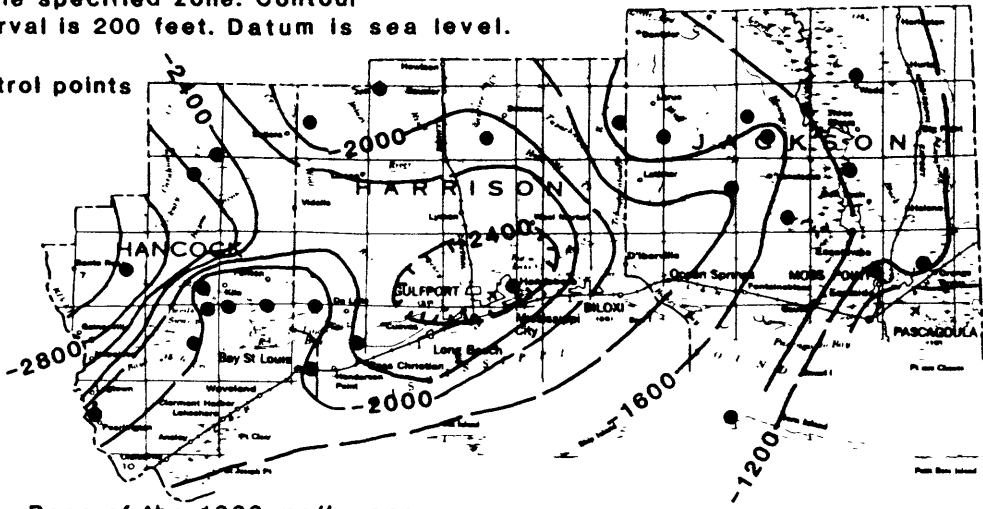


Figure 18.—Potentiometric surface of the upper part of the Miocene aquifer system, Fall 1981, in Hancock, Harrison, and Jackson Counties (modified from B.E. Wasson, U. S. Geological Survey, 1978, and written communication, 1984).

# EXPLANATION

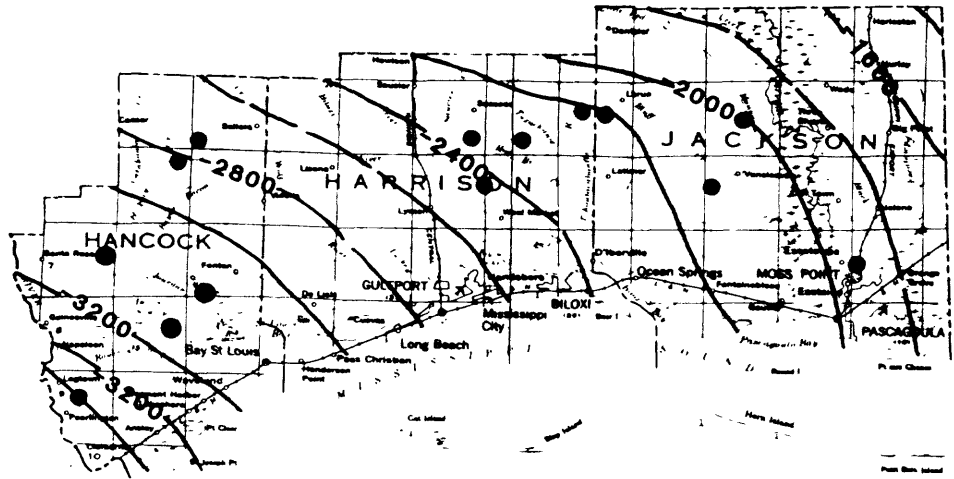
—2400— Contour showing altitude of the base of the specified zone. Contour interval is 200 feet. Datum is sea level.

● Control points



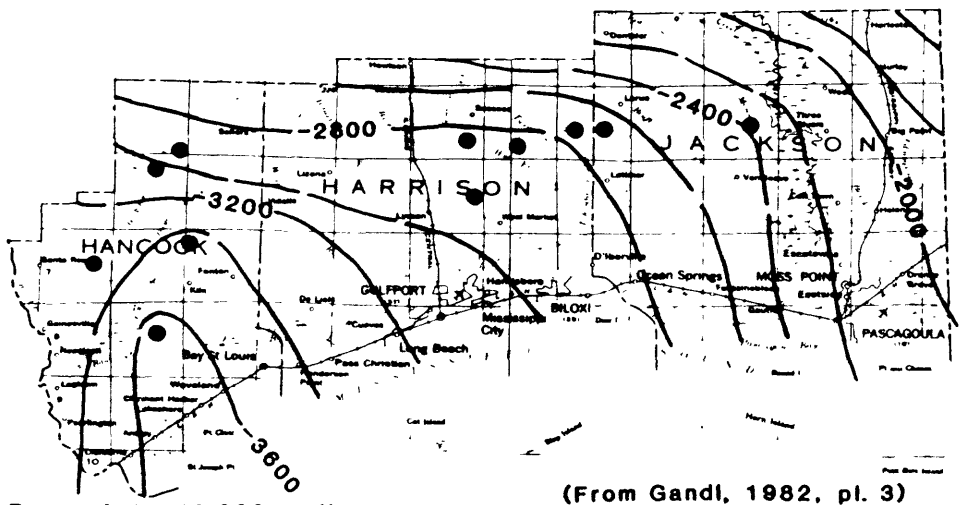
Base of the 1000 mg/L zone (freshwater)

(From Gandi, 1982, pl. 1)



Base of the 3000 mg/L zone (slightly saline)

(From Gandi, 1982, pl. 2)



Base of the 10,000 mg/L zone (moderately saline)

(From Gandi, 1982, pl. 3)

0 10 Miles

Figure 19.--Configuration of the bases of the moderately saline, slightly saline, and freshwater zones in the coastal counties, Mississippi (modified from Gandi, 1982).

Table 5.--Records of selected water wells in Hancock, Harrison, and Jackson Counties, Mississippi  
Water-Bearing Units: CRNL, Citronelle Formation; GRMF, Graham Ferry Formation;  
PCGL, Pascagoula Formation; MOCN, Miocene Series, undifferentiated.

Water Use: C, Commercial; E, Elect Power; H, Domestic; N, Industrial; P, Public; Q, Aquaculture; R, Recreation;  
T, Institutional; U, Unused; Z, other.

Hancock County

LOCATION				DATE DRILL- LED	ALTI- TUDE (FT)	WELL DEPTH (FT)	CAS- ING DIAM (IN)		SCREEN LENGTH (FT)	AQUI- FER	WATER LEVEL		PUMP (GPM)	WATER USE	ANAL- YSIS	ELECTR LOG
WELL NO.	SECTION	TOWN	RANGE								ABOVE(+) OR BELOW LAND SUR- FACE (FT)	DATE				
4036	30	055	14W	1980	135.1	1197	8	50	50	MOCN	60	10-82	205	P		086
4057	19	065	14W	1958	110.	1279	6	40	40	MOCN	+25	10-82	100	T	B	
4005	35	075	15W	1950	15.	644	6	60	60	MOCN	+30	04-65	300	R		
4022	21	075	15W	1969	20.	153	5	5	5	MOCN	22	07-69	400	H		
4031	33	075	15W	1970	24.	1681	16	100	100	PCGL	+92	10-70	12	I		062
4043	36	075	14W	1970	40.	772	10	50	50	MOCN	30	07-70	750	I		
4048	36	075	14W	1970	60.	699	10	50	50	MOCN	35	10-82	750	P		
4050	31	075	14W	1970	7.	498	8	40	40	MOCN	+29	10-82	250	P	B	
4068	36	075	14W	1971	84.	930	10	60	60	MOCN	53	10-82	11	P	B	071
4141	30	075	14W	1980	33.	597	8	40	40	MOCN	+6	10-82	200	P		082
4003	08	085	16W	1963	25.	1524	12	60	60	MOCN	+90	01-63	24	U	B	
4004	10	035	16W	1963	18.	1873	18	70	70	MOCN	+10	07-64	35	U	B	032
4005	05	095	16W	1964	25.	1481	12	61	61	MOCN	+86	05-64	10	U	B	
4006	10	095	16W	1964	23.	1595	18	110	110	MOCN	+95	10-64	49	U	B	038
4007	10	035	16W	1964	25.	1434	12	63	63	MOCN	+85	08-64	12	U	B	037
4008	10	035	16W	1965	19.	672	24	140	140	MOCN	+15	04-65	50	U	B	039
4010	10	035	16W	1964	25.	140	10	30	30	CRNL	10	02-65	11	U	B	
4011	15	095	16W	1967	21.	676	6	30	30	GRMF	+13	03-67		U	B	049
4012	15	095	16W	1967	21.	599	6	30	30	GRMF	+9	02-67		U	B	050
4013	15	095	16W	1967	21.	491	6	30	30	GRMF	+6	03-67		U	B	051
4014	15	095	16W	1968	20.	144	12	60	60	CRNL	7	06-68	510	U	B	055
4013	23	085	16W	1978	25.	765	6	40	40	MOCN	2	10-92	90	H		078
4034	35	035	15W	1960	26.	1323	2	20	20	MOCN	+54	07-65	50	H	B	
4042	04	085	15W	1979	28.	680	20	180	180	MOCN	2	09-80	1200	N		080
4043	04	095	15W	1980	28.	693	20	185	185	MOCN	3	10-82	1200	N		081
4052	23	035	16W	1983	20.	417	6	40	40	GRMF	3	09-83	60	H		081
4017	01	035	15W	1969	10.	660	8	55	55	MOCN	+14	10-82	150	H		030
4002	10	095	14W	1963	10.	1000	12	60	60	GRMF	+9	10-82	743	P		
4003	17	095	14W	1971	7.	1041	6	20	20	MOCN	+9	10-82	125	P	B	



Table S, Continued

## Jackson County

WELL NO.	LOCATION		OWNER	DATE DRILL-LED	ALTI-TUDE (FT)	WELL DEPTH (FT)	CAS-ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI-FER	WATER LEVEL		PUMP (GPM)	WATER USE	ANAL-YSIS	ELECTR LOG
	SECT-TION	TOWN-SHIP RANGE								ABOVE(+) OR BELOW LAND SURF-ACE (FT)	DATE				
21124	17	03S	OSW	COASTAL CHEM CO	1962	6.	352	12	40	GRMF	81	05-62	400	N	
21132	27	03S	OSW	STANDARD OIL CO	1962	3.	400	7	30	GRMF	4	03-62		U	
21133	16	03S	OSW	STANDARD OIL CO	1962	4.	100	6		CRNL				U	
21135	16	08S	OSW	STANDARD OIL CO	1963	5.	350	18	50	GRMF	67	09-63	602	N	
21137	16	03S	OSW	STANDARD OIL CO	1963	3.	387	18	75	GRMF	62	10-82	602	U	186
21138	32	07S	OSW	READY MIX CONCT	1962	16.	294	6	30	GRMF	55	12-63		U	
21144	16	08S	OSW	CHEVRON USA	1962	5.	148	6	20	CRNL	8	02-62		U	
21145	20	03S	OSW	CORCHEM INC	1967	3.	360	12	50	GRMF	78	03-67	400	U	
21151	17	07S	OSW	SEACOAST PRODUCTS	1965	5.	232	12	50	GRMF	30	02-65	500	N	
21158	19	07S	OSW	THIOKOL CHEM	1966	4.	240	12	40	GRMF	45	10-82	320	N	
21159	17	07S	OSW	THIOKOL CHEM	1964	4.	231	12	40	GRMF	32	09-64	400	N	
21160	17	07S	OSW	THIOKOL CHEM	1965	4.	236	12	50	GRMF	33	08-65	500	N	
21164	07	08S	OSW	PASCAGOULA	1965	10.	682	10	48	PCGL	41	10-65	250	P	
21165	06	09S	OSW	BRIDGES ALEX	1963	12.	200	8	40	GRMF	17	06-63		U	
21166	29	07S	OSW	MOSS POINT	1964	10.	645	12	43	PCGL	24	03-64	400	U	
21171	21	08S	OSW	H K PORTER INC	1965	5.	386	6		GRMF				U	
21172	26	08S	OSW	H K PORTER INC	1965	4.	386	6	40	GRMF				U	
21178	32	07S	OSW	CONCRET PROD CO	1962	17.	180	6	20	CRNL	96	10-82	150	N	
21180	30	08S	OSW	PASCAGOULA	1965	10.	663	10	49	PCGL	198	10-82	500	P	
21181	30	08S	OSW	PASCAGOULA	1965	10.	682	10	50	PCGL	59	10-65	200	P	
2225	06	08S	OSW	BLUE LAKE MANOR	1963	15.	303	8	17	GRMF	62	04-63		U	
2232	06	08S	OSW	BLUE LAKE MANOR	1963	10.	296	8	20	GRMF	66	08-63		H	
2293	06	03S	OSW	PASCAGOULA	1969	15.	326	12	80	GRMF	104	10-82	550	P	179
2320	17	09S	OSW	JACKSON CO PORT	1969	10.	377	8	40	GRMF	75	10-82	60	U	
2403	17	08S	OSW	USGS	1974	12.	346	6	6	GRMF	145	09-74		U	216
2407	05	07S	OSW	PASCAGOULA	1974	14.	327	12	80	GRMF	92	03-75	600	U	219
2417	30	07S	OSW	MOSS POINT	1968	20.	802	16	50	PCGL	128	10-82	577	P	8
2420	05	08S	OSW	PASCAGOULA	1976	10.	346	12	80	GRMF	128	10-82	600	P	223
2421	21	09S	OSW	COR-CHEM CORP	1976	5.	366	12	50	GRMF	106	10-76		N	225

Table 5, Continued

## Hancock County

WELL NO.	LOCATION		DATE DRILL-LED	ALTI-TUDE (FT)	WELL DEPTH (FT)	CAS-ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI-FER	WATER LEVEL		PUMP (GPM)	WATER USE	ANALYSIS	ELECTRIC LOG		
	SECT-ION	TOWN-SHIP RANGE							OWNER	ABOVE(+) OR BELOW LAND SUR-FACE (FT)					DATE	
K004	29	08S	13W	BAY ST LOUIS	1959	16.	1210	6	60	PCGL	+17	10-82	175	P	9	021
K005	44	08S	14W	BAY ST LOUIS	1961	20.	1197	6	60	PCGL	+1	10-82	200	P		
K006	19	08S	13W	BAY ST LOUIS	1951	20.	841	12	61	GRMF	+15	06-64	750	U		
K007	29	08S	13W	BAY ST LOUIS	1963	20.	914	10	42	GRMF	12	10-82	400	P		
K017	10	09N	14W	WAVELAND	1954	10.	980	8	60	GRMF	+17	10-82	260	U		
K040	29	08S	13W	BAY ST LOUIS	1923	20.	1120	6	60	MOCN	+30	05-39	550	U		
K041	29	08S	13W	BAY ST LOUIS	1927	20.	1120	6		MOCN			250	U		
K057	30	08S	13W	L & N RR	1914	24.	930	6	60	MOCN	+20	05-39	200	U		
K070	29	08S	13W	BAY ST LOUIS	1930	21.	1350	6		PCGL		06-56	225	U		
K216	13	08S	14W	T L JAMES & CO	1972	25.	707	6	30	MOCN	25	06-72	150	U		
K221	03	09S	14W	DIAMONDHEAD INC	1972	13.	693	18	60	GRMF	+19	10-82	250	P	9	073
K305	20	08S	14W	HANCOCK HOSP	1966	5.	370	6	40	GRMF			200	T		
K349	03	09S	14W	WAVELAND	1973	15.	730	12	60	GRMF			250	P		077
K369	39	08S	14W	COCA COLA	1980	7.	516	10	10	MOCN				H		
K377	41	08S	14W	BAY ST LOUIS	1982	21.	1062	16	60	MOCN	+23	12-82	750	P		104
L001	26	09S	15W	HANCOCK PORT AU	1969	11.	2001	12	100	PCGL	+1	10-82	750	P		
L027	16	09S	16W	PEARLINGTON SCH	1966	7.	520	6	40	GRMF	1	10-82	150	T		
L036	28	09S	16W	OAK HARBOR SUBD	1965	5.	1990	8	60	MOCN	+103	01-65		H		
L069	20	09S	16W	SEASHORE UTL CO	1965	3.	1990	8	60	MOCN	+104	02-65	883	P	9	040

Table 5, Continued

## Harrison County

WELL NO.	LOCATION		OWNER	DATE DRILL- LED	ALTI- TUDE (FT)	WELL DEPTH (FT)	CAS- ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI- FER	WATER		PUMP (GPM)	WATER USE	ANAL- YSIS	ELECTR LOG
	SECT-	TOWN-								LEVEL	DATE				
										ABOVE(+) OR BELOW LAND SUR- FACE (FT)					
C002	06	055	11W	1963	160.	300	5		GRMF	75	10-82		H	B	
C007	11	055	11W	1934	230.	110	5	33	GRMF	43	04-34		U		
C008	13	055	11W	1934	200.	80	5		GRMF	49	10-34		U		
C018	11	055	11W	1961	215.	638	6	50	MOCN	158	10-82	150	I		
C019	11	055	11W	1949	215.	230	6		GRMF	157	10-82		H		
C031	06	055	11W	1970	160.	775	8	30	MOCN	91	10-82	170	P	B	082
D001	05	055	10W	1943	100.	245	8	40	GRMF	34	05-64	90	H		
F148	02	065	12W	1973	100.	358	8	39	GRMF	52	06-73	150	P		
G002	17	065	11W	1963	75.	455	6	20	GRMF	33	01-63		Q		
G005	16	065	11W	1965	50.	753	6	20	PCGL	9	07-65		H		
G019	17	065	11W	1937	48.	429	4	20	GRMF	13	12-37	32	Q	B	
G020	17	065	11W	1938	51.	431	4	20	GRMF	32	10-82	60	Q	B	
G024	17	065	11W	1953	65.	785	4	60	MOCN	+6	01-65	75	Q	B	
G022	17	065	11W	1951	55.	794	6	50	MOCN	21	10-82	267	Q		
G136	28	065	11W	1969	85.	530	8	60	GRMF	67	10-82	7	H		
G239	29	065	11W	1980	70.	520	12	60	GRMF	55	07-80	10	P		140
H013	15	065	10W	1943	130.	505	12	40	GRMF	118	10-82	280	T		
K004	36	075	12W	1957	20.	785	8	20	PCGL	22	10-82	100	P	B	
K130	13	075	12W	1972	50.	250	6	30	GRMF	35	08-72	250	U		
K145	02	075	12W	1973	25.	740	12	50	GRMF	66	06-73	300	P		
L002	04	085	11W	1964	22.	315	24	60	MOCN	43	01-63	11	P	B	030
L005	07	085	11W	1958	25.	380	10	80	GRMF	+1	08-53	500	P		015
L006	33	075	11W	1945	25.	1166	10	40	PCGL	19	01-66	350	N	B	
L010	36	075	11W	1961	25.	859	6	40	MOCN	5	06-64		U		
L014	26	075	11W	1955	20.	763	24	60	MOCN	3	10-64	965	U	B	
L015	02	085	11W	1964	23.	752	16	63	MOCN	43	01-82	960	P		
L016	34	075	11W	1959	20.	815	16	70	MOCN	49	01-82	975	P		
L017	34	075	11W	1952	20.	848	18	80	MOCN	30	01-83	500	P	B	

Table 5, Continued

Harrison County

WELL NO.	LOCATION			DATE DRILL-LED	ALTI-TUDE (FT)	WELL DEPTH (FT)	CAS-ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI-FER	WATER LEVEL		PUMP (GPM)	WATER USE	ANAL-YSIS	ELECTR LOG	
	SECT-ION	TOWN-SHIP	RANGE							OWNER	ABOVE(+) OR BELOW LAND SUR-FACE (FT)					DATE
L018	09	07S	11W	ORANGE GROVE UT	1964	25.	765	8	50	GRMF	72	10-82	300	P		
L032	02	07S	11W	BARBER MILK CO	1964	55.	535	8	40	GRMF	10	01-66	200	U		
L034	14	07S	11W	HARRISON CTY	1967	20.	584	10	60	GRMF			602	N	E	060
L035	11	07S	11W	PLUMMER-DEDEAUX	1968	28.	730	8	50	GRMF	8	04-63	280	P		064
L041	26	07S	11W	U S ARMY	1942	20.	658	12	77	GRMF				M		
L083	26	07S	11W	U S ARMY	1942	20.	668	12		GRMF	6	08-64		U		
L084	26	07S	11W	GULFPORT	1942	25.	645	12	63	GRMF	43	01-83	860	P		
L085	23	07S	11W	U S ARMY	1942	25.	658	12	64	GRMF				U		
L116	04	07S	11W	ORANGE GROVE UT	1967	40.	437	6	50	GRMF	28	06-67	125	P		
L141	01	08S	11W	V A HOSPITAL	1956	21.	1093	10	80	PCGL	41	10-82	533	U	E	
L146	03	08S	11W	ROY L STEWART	1900	18.	1500	5		PCGL	+21	03-39	360	M		
L147	04	08S	11W	GULFPORT	1937	26.	953	10	71	MOCN	32	03-66	665	U	B	
L149	04	08S	11W	GULFPORT	1927	29.	1242	12	80	PCGL	6	03-66	710	U	P	
L150	04	08S	11W	GULFPORT	1910	13.	1173	8	77	PCGL	+65	08-10	400	U		
L151	04	08S	11W	GULFPORT	1921	25.	1244	10		PCGL				U		
L152	04	08S	11W	GULFPORT	1904	27.	862	8		GRMF	+60	01-04	450	U		
L153	04	03S	11W	GULFPORT	1900	29.	900	10		GRMF	+7	03-39		U		
L160	05	08S	11W	U S NAVY	1942	23.	1196	10	70	PCGL	+1	01-65	822	T	B	
L161	06	08S	11W	U S NAVY	1942	32.	950	10	30	MOCN	+14	07-42	526	T	B	
L162	06	03S	11W	U S NAVY	1943	28.	757	10	60	MOCN	+15	01-43	500	T	E	
L169	04	03S	11W	GULFPORT PORT A	1935	11.	890	6	40	GRMF	15	10-82	300	P		
L175	04	08S	11W	GULFPORT PORT A	1968	15.	1320	8	60	PCGL	+9	09-68	350	P		065
L199	33	07S	11W	U S ARMY	1943	10.	366	10	40	GRMF	+19	02-43	50	M		
L204	21	07S	11W	TURN-KEY H PROJ	1963	13.	794	6	60	GRMF	32	10-82	150	P		
L208	21	07S	11W	TURN-KEY H PROJ	1963	12.	754	6	60	GRMF	3	11-68	150	P		
L231	04	07S	11W	ORANGE GROVE UT	1969	62.	697	9	50	GRMF	62	10-82	300	P		
L265	03	07S	11W	ORANGE GROVE UT	1970	53.	747	12	50	GRMF	23	10-82	300	P		081
L310	33	07S	11W	COCA COLA	1967	27.	1178	6	30	PCGL	14	10-82	100	N		
L328	15	07S	11W	MECAISE CONST	1971	25.	721	10	60	GRMF	13	05-71	250	U		
L330	12	07S	11W	LOREN O HEIGHTS	1971	25.	742	8	64	GRMF	20	05-71	350	P	E	

Table 5, Continued

Harrison County

WELL NO.	LOCATION		OWNER	DATE DRILL-LED	ALTI-TUDE (FT)	WELL DEPTH (FT)	CAS-ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI-FER	WATER LEVEL		PUMP (GPM)	WATER USE	ANAL-YSIS	ELECTR LOG
	SECT-I-ON	TOWN-SHIP								ABOVE(+) OR BELOW LAND SUR-FACE (FT)	DATE				
L337	15	07S	11W		1971	15-	253	6	GRMF	10	08-71	150	N		
L402	08	07S	11W		1973	30-	842	6	GRMF	18	10-73	250	U		
L404	27	07S	11W		1972	25-	826	8	PCGL	47	10-82	150	P		094
L405	23	07S	11W		1974	25-	795	16	PCGL	52	01-83	10	P		111
L411	15	07S	11W		1975	15-	711	16	GRMF	15	05-75	603	U		113
L417	05	07S	11W		1974	45-	528	10	GRMF	63	10-82	500	P		
L418	21	07S	11W		1974	17-	342	10	GRMF	23	03-74	275	P		
L419	15	07S	11W		1981	25-	560	6	GRMF	33	03-81	170	P		
L421	33	07S	11W		1982	25-	320	12	GRMF	40	06-82	150	N		143
L424	24	07S	11W		1976	12-	616	6	GRMF	24	04-76	100			
L426	04	03S	11W		1977	17-	926	16	PCGL	25	10-77	500	P		125
L430	05	08S	11W		1978	32-	746	16	GRMF	45	10-82	10	P		131
L433	06	08S	12W		1978	31-	720	6	GRMF	37	10-82	10	P		134
L450	09	08S	11W		1981	26-	850	6	GRMF	35	09-81	250	N		
L59P	36	07S	11W		1982	25-	80	6	CRNL	16	02-82	12	H		
M001	20	09S	09W		1958	5-	727	6	GRMF	+18	01-65		R	E	009
M002	28	07S	09W		1954	20-	1207	12	PCGL	+13	01-69	16	U		
M003	34	07S	09W		1945	20-	905	12	PCGL	17	11-69		U		
M004	34	07S	09W		1945	10-	1200	12	PCGL	30	10-82	460	P		
M005	36	07S	10W		1952	30-	865	12	PCGL	59	10-82	10	P		
M006	29	07S	09W		1963	15-	463	14	GRMF	9	10-63	550	P		028
M007	32	07S	10W		1963	15-	489	12	PCGL	35	10-82		I		029
M008	27	07S	09W		1945	15-	1243	6	PCGL	40	10-82	22	C		
M009	27	07S	09W		1958	10-	940	16	PCGL	+1	10-82		C		014
M012	34	07S	09W		1958	10-	944	6	PCGL	+5	05-64	25	H		012
M014	34	07S	10W		1958	10-	830	6	PCGL	+1	01-58	80	P		014
M022	27	07S	09W		1944	15-	1200	6	PCGL	0	10-82		C		
M023	19	07S	10W		1956	17-	755	24	MOCN	+9	09-68	350	E	E	
M024	13	07S	10W		1956	25-	845	24	MOCN	44	10-82	317	E		
M026	19	07S	10W		1962	24-	752	16	MOCN	+4	12-64	500	N		

Harrison County

LOCATION				DATE DRILL- LED	ALTI- TUDE (FT)	WELL DEPTH (FT)	CAS- ING DIAM (IN)	SCREEN LENGTH (FT)	ACQUI- FER	WATER LEVEL		PUMP (GPM)	WATER USE	ANAL- YSIS	ELECTR LOG
WELL NO.	SECTI- TION	TOWN- SHIP	RANGE							ABOVE(+) OR BELOW LAND SUR- FACE (FT)	DATE				
4027	31	07S	10W	1962	25.	302	6		PCGL	+16	08-50	125	U		
4029	30	07S	10W	1964	25.	925	6		PCGL	9	09-64	75	U		
4033	27	07S	10W	1957	25.	700	8	40	GRMF	+1	09-57	475	P		
4040	26	07S	10W	1960	25.	654	12	50	GRMF			350	P		
4049	19	07S	10W	1964	20.	745	10	60	GRMF	1+	11-63	527	N		033
4059	33	07S	09W	1934	5.	935	6	40	PCGL	+14	05-64	150	U	B	
4059	33	07S	09W	1928	7.	913	5		PCGL	+22	03-39	250	U		
4063	26	07S	09W	1942	16.	650	18	50	GRMF	+2	01-42		U		
4064	26	07S	09W	1942	13.	620	12	40	GRMF	63	10-82	620	T		
4065	30	07S	09W	1942	13.	631	18	40	GRMF	23	11-64	605	T		
4066	29	07S	09W	1942	20.	639	12	40	GRMF			615	T		
4067	29	07S	09W	1942	21.	634	12	40	GRMF	69	10-82	650	T		
4068	30	07S	09W	1942	22.	618	10	40	GRMF	65	10-82	560	T		
4075	19	07S	09W	1951	20.	610	24	40	GRMF	63	10-82	700	T		
4076	29	07S	09W	1951	15.	630	24	40	GRMF	25	11-64	740	T		
4077	30	07S	09W	1951	18.	638	24	40	GRMF	70	10-82	750	T		
4078	30	07S	09W	1951	26.	541	24	40	GRMF	73	10-82	720	T		
4079	31	07S	09W	1951	20.	540	24	40	GRMF	25	11-64	800	T		
4080	25	07S	10W	1940	30.	1245	10	53	PCGL	44	09-39	250	U		
4081	24	07S	10W	1943	15.	1282	10	63	PCGL			300	U		
4082	25	07S	09W	1961	20.	684	24	60	GRMF			10	T		
4090	34	07S	09W	1955	20.	540	6		GRMF			80	U		
4091	34	07S	09W	1965	20.	560	6	40	GRMF			85	U		
4097	09	07S	09W	1965	22.	361	6	40	PCGL	35	10-82		U		
4099	31	07S	10W	1929	30.	700	5		GRMF				U		
4109	33	07S	10W	1926	22.	1400	6		PCGL	+24	03-39		C		
4111	35	07S	10W	1939	19.	734	6	60	GRMF	+32	03-39	325	H		
4115	29	07S	09W	1942	32.	1226	12	40	PCGL	+10	01-69	900	P		
4119	26	07S	09W	1927	23.	1182	16	65	PCGL	+22	01-64	200	U		
4120	26	07S	09W	1903	21.	633	8		PCGL	+23	03-39		U		

Table 5, Continued

## Harrison County

WELL NO.	LOCATION			DATE DRILL-LED	ALTITUDE (FT)	WELL DEPTH (FT)	CASING DIAM (IN)	SCREEN LENGTH (FT)	AQUIFER	WATER LEVEL		PUMP (GPM)	WATER USE	ANALYSIS	ELECTR LOG	
	SECTION	TOWN	SHIP RANGE							OWNER	ABOVE(+) OR BELOW LAND SURFACE (FT)					DATE
M121	27	07S	09W	BILOXI	1927	21.	1220	10	40	PCGL	+46	03-39	650	U	B	
M127	27	07S	09W	CRYSTAL ICE CO	1906	22.	920	6		PCGL				U		
M137	06	08S	10W	J A LEATHERS	1903	13.	1200	6		PCGL	+34	03-39		H		
M143	27	07S	09W	GULF CENTRAL CO	1963	20.	975	6	50	PCGL	+10	11-63		U		
M147	34	07S	09W	MAVAR PACKING	1966	10.	945	12	60	PCGL	+3	04-66	950	N		
M148	34	07S	09W	DEJEAN PACKING	1966	10.	733	6	40	GRMF	+8	05-66	200	N		
M149	32	07S	10W	GULF HOLMED W CO	1964	25.	530	12		PCGL	2	09-64	350	U		
M150	37	07S	10W	COAST WATER WKS	1960	20.	853	8		GRMF	+7	12-66	200	P		058
M151	35	07S	10W	ADMIRAL BENBOW	1967	20.	754	8	60	GRMF	51	10-82	250	C		
M152	32	07S	10W	GULFPORT	1967	20.	799	6	20	GRMF	14	08-67	120	U		
M132	35	07S	10W	JOHN MEADINICH	1966	20.	716	8	50	GRMF	19	05-66		H		
M191	14	07S	10W	COAST WATER WKS	1966	22.	892	12		GRMF	+6	08-66	500	P		
M198	15	07S	10W	SUNKIST C CLUB	1966	10.	853	8	60	GRMF	+7	12-66		I		
M199	35	07S	10W	K & B APTS	1967	25.	700	6	40	GRMF	18	01-67	175	H		
M233	22	07S	10W	FORREST P APTS	1967	5.	650	6	50	GRMF	12	09-67	100	H		
M247	27	07S	10W	BROADWATER CO	1967	20.	660	8	20	GRMF	30	10-67	200	I		
M248	27	07S	10W	BROADWATER CO	1967	25.	706	12	60	GRMF	74	10-82	800	R		
M249	35	07S	10W	BROADWATER CO	1967	20.	689	12	60	GRMF	32	10-67	800	I		
M255	29	07S	10W	CURT T F VILAGE	1968	20.	650	6	30	GRMF	18	01-63	60	H		
M272	09	07S	09W	RIVIERA UTL	1968	20.	867	8	63	GRMF	+14	04-69	150	P		
M273	34	07S	09W	SEA COAST PKG	1968	10.	995	6	63	PCGL	+10	04-68	105	C		
M286	35	07S	10W	SUN & SAN MOTEL	1968	20.	733	6	50	GRMF	54	10-82	100	O		
M288	15	07S	10W	MS POWER CO	1969	10.	838	18	60	GRMF	2	10-69	934	E		
M300	07	07S	10W	DARLEIGH UTL	1969	25.	508	6	20	GRMF	17	04-69	200	P		
M307	32	07S	10W	U S AIR FORCE	1969	15.	875	8	35	PCGL	44	10-82	240	U	E	071
M314	36	07S	10W	EMERALD BEACH	1969	20.	734	6	50	GRMF	14	06-69	100	H		
M329	34	07S	10W	BEAUVOIR SHRINE	1967	15.	681	12	50	GRMF	40	10-82	400	C		
M331	36	07S	10W	BILOXI	1970	28.	846	16	50	GRMF	63	10-82	10	P		074
M354	27	07S	09W	BILOXI CANNING	1970	8.	914	12	53	PCGL	+3	04-70	500	U		075
M355	31	07S	10W	GULF HOMES W CO	1953	25.	848	6	50	GRMF	+3	02-58	120	U		

Table 5, Continued

## Harrison County

WELL NO.	LOCATION SECT- TION	TOWN- SHIP	RANGE	OWNER	DATE DRILL- LED	ALTI- TUDE (FT)	WELL DEPTH (FT)	CAS- ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI- FER	WATER LEVEL ABOVE(+) DATE OR BELOW LAND SUR- FACE (FT)	PUMP (GPM)	WATER USE	ANAL- YSIS	ELECT LOG
M356	31	07S	10W	GULF HOMES W CO	1959	25.	869	6	50	GRMF	+1	11-59 120	U		
M357	31	07S	10W	GULF HOMES W CO	1961	25.	852	8	85	GRMF	+1	05-61 250	U		
M358	12	07S	10W	CEDAR WATER CO	1967	20.	778	6	60	GRMF	+7	07-67 167	P		
M380	19	07S	10W	BRENTWOOD UTL	1970	18.	786	10	50	PCGL	32	08-70 300	P		080
M395	33	07S	10W	BILOXI BEACH INN	1970	20.	690	8	50	GRMF	53	10-82 150	C		
M397	32	07S	10W	GULFPORT	1970	24.	830	12	60	PCGL	18	05-71 500	P		083
M398	19	07S	10W	ELROD CONST CO	1970	20.	786	10	50	GRMF	32	08-70 300	H		
M399	05	07S	10W	ANNE ENTERPRISE	1972	20.	529	6	60	GRMF	30	03-72 320	H		
M404	23	07S	10W	BAYOU OAK M PRK	1970	25.	820	6	40	GRMF	27	12-70 105	C		
M408	23	07S	09W	WESTWICK UTL	1970	10.	1037	8	80	GRMF	+12	04-71 760	P		082
M460	27	07S	10W	BROADWATER BCH	1963	25.	940	12		PCGL	5	07-63	C		
M436	23	07S	09W	SOU SHELL FISH	1967	10.	1159	6	40	PCGL	+16	10-67	U		
M471	34	07S	09W	GULF CEN SEAFO	1963	10.	975	6	50	PCGL	10	11-63	C		
M492	34	07S	09W	DEJEAN PACKING	1966	5.	733	6	40	GRMF	+3	02-66	N		
M493	34	07S	09W	DEJEAN PACKING	1967	6.	782	12	80	GRMF	1	09-67 500	N		
M494	34	07S	09W	CRUSO PACKING CO	1971	10.	971	6	60	PCGL	4	05-71	N		087
M501	34	07S	09W	CRUSO CANNING	1963	10.	980	6		PCGL	1	05-71	U		
M515	20	07S	09W	SHEMPER SEAFOOD	1971	10.	926	6	60	PCGL	5	08-71 150	U		
M519	37	07S	10W	COAST WATER WKS	1971	22.	546	12	60	GRMF	37	01-72 350	P		092
M539	33	07S	10W	EDGEWATER PLAZA	1972	30.	661	8	60	GRMF	30	02-72 250	H		
M544	23	07S	10W	SILOXI	1969	25.	900	12	71	GRMF	35	10-81 500	U		
M548	17	07S	09W	TIMBERLOVE S TR	1972	20.	855	10	50	GRMF	10	10-72 250	H		
M550	26	07S	09W	SILOXI	1972	10.	634	16	70	GRMF	70	10-82 700	P	B	097
M563	27	07S	09W	BARQS BOTTLNG CO	1954	15.	920	6		PCGL	11	07-54	U		
M564	27	07S	09W	BARQS BOTTLNG CO	1958	15.	28	6		PCGL	+22	04-58	U		
M565	34	07S	10W	HOLIDAY INN	1964	18.	682	8	50	GRMF	5	06-64	C		
M566	34	07S	10W	KULJIS SEAFOOD	1970	5.	978	10	50	PCGL	+1	06-70	N	B	100
M576	27	07S	10W	SILOXI	1973	30.	849	16	60	GRMF	60	10-82 10	P		103
M612	32	07S	10W	NAVAL HOME	1973	15.	857	12	50	GRMF	45	12-82 330	P		



Table 5, Continued

Harrison County

WELL NO.	LOCATION		DATE DRILL-LED	ALTI-TUDE (FT)	WELL DEPTH (FT)	CAS-ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI-FER	WATER LEVEL		PUMP (GPM)	WATER USE	ANAL-YSIS	ELECTR LOG
	SECT-TION	TOWN-SHIP RANGE							ABOVE(+) OR BELOW LAND SUR-FACE (FT)	DATE				
4639	35	07S	10W	20.	480	6	20	GRMF	22	01-74	130	H		
4643	09	07S	09W	23.	840	12	98	GRMF	15	06-75	600	P		115
4644	31	07S	10W	25.	820	16	80	GRMF	38	01-83	10	P		126
4643	29	07S	10W	26.	845	16	100	PCGL	35	02-78	10	P		128
4650	25	07S	10W	23.	640	18	85	GRMF	66	10-82	900	P		135
4656	35	07S	10W	25.	677	8	27	GRMF	69	10-82	300	I		
4657	31	07S	10W	20.	900	16	80	PCGL	47	01-83	15	P		124
4651	13	07S	09W	10.	550	8	50	GRMF	75	06-80	380	U		
4671	34	07W	09W	7.	985	8	40	GRMF	20	11-81	380	N		142
4674	23	07S	10W	21.	593	8	60	GRMF	4	07-81	400	P		
4675	27	07S	09W	20.	785	8	40	GRMF	30	05-82	280	N		144
4676	34	07S	09W	10.	950	8	60	PCGL	10	05-82	400	J		
4678	24	07S	10W	25.	930	6	630	GRMF	10	03-82	300	N		
4683	33	07S	10W	26.	275	5	10	GRMF	7	05-63		H		
4002	25	03S	13W	18.	1002	6	40	GRMF	+18	09-68	300	P	P	
4003	30	03S	13W	15.	1111	6	60	PCGL	+15	09-68	400	U	B	
4005	23	03S	13W	5.	840	6	40	PCGL	+35	10-78	350	P		
4006	11	03S	13W	5.	810	6	30	PCGL	+20	01-66	150	H		
4072	27	05S	13W	9.	920	6	40	PCGL	+23	01-72	225	H		093
4102	27	03S	13W	10.	965	12	60	PCGL	+3	12-74	660	P		108
4104	05	03S	13W	20.	1755	16	155	PCGL	+69	08-74	20	N		110
4106	05	03S	13W	20.	1646	6	40	PCGL	+46	10-82		U		
4107	05	03S	13W	17.	1657	6	40	PCGL	+49	10-82		U		
4166	05	03S	13W	14.	694	6	40	GRMF	+37	05-64		U	B	
4191	24	03S	13W	13.	980	6	60	PCGL	+8	09-68	600	P	B	
4194	27	03S	13W	5.	800	6	60	PCGL	+25	05-43	500	U		
4286	09	03S	13W	20.	557	6	30	GRMF	5	10-82	70	U		
4237	33	03S	13W	5.	966	7	40	GRMF	+15	09-76	200	H		166
4291	04	03S	13W	15.	1760	16	135	MOCN	+65	09-77	32	N	B	
4295	27	03S	13W	11.	884	6	40	GRMF	+1	10-82	150	R		136

Table 5, Continued

## Harrison County

WELL NO.	LOCATION		OWNER	DATE DRILL- LED	ALTI- TUDE (FT)	WELL DEPTH (FT)	CAS- ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI- FER	WATER ABOVE(+) DATE OR BELOW LAND SUR- FACE (FT)	PUMP (GPM)	WATER USE	ANAL- YSIS	ELECTR LOG
	SECTION	TOWN												
	NO.	SHIP	RANGE											
N313	34	03S	13W	THE VILLAGE	1993	5.	982	10	70	GRMF	5	02-84 200	P	150
0001	15	03S	12W	LONG BEACH	1963	25.	927	12	60	GRMF	13	04-82 580	P	B
0006	19	03S	12W	PASS CHRISTIAN	1954	15.	391	8	50	MOCN	3	10-82 356	U	
0008	10	03S	12W	COAST WATER WKS	1960	30.	611	5	40	GRMF	28	10-82 340	P	
0011	03	03S	12W	COAST WATER WKS	1964	25.	590	12	40	GRMF	19	10-82 330	P	
0012	11	03S	12W	LOUIS MAHN	1964	20.	604	6	40	GRMF			I	
0014	30	08S	12W	H H CROSBY	1967	15.	389	6	40	GRMF		300	H	059
0015	10	08S	12W	COAST WATER WKS	1967	25.	654	10	60	GRMF	20	10-82 250	P	
0123	22	08S	12W	LONG BEACH	1969	25.	973	12	70	GRMF	12	11-69 750	P	070
0124	20	08S	12W	H H CROSBY	1970	23.	1310	6	40	PCGL	+30	01-70 330	I	072
0176	11	03S	12W	SEASHORE UTL CO	1960	22.	792	6	20	GRMF	+5	03-60 100	P	B
0162	02	03S	12W	COAST WATER WKS	1972	20.	760	8	63	GRMF	9	10-82 350	P	
0156	09	03S	12W	LONG BEACH	1973	25.	384	16	100	GRMF	1	02-73 600	N	085
0172	13	03S	12W	LONG BEACH	1948	20.	843	10	81	GRMF	+7	01-65 385	U	
0174	17	03S	12W	LONG BEACH	1956	15.	962	10	80	PCGL	+6	01-56 500	U	B
0175	13	03S	12W	LONG BEACH	1926	20.	383	6	60	GRMF	4	04-71 350	U	
0192	12	03S	12W	FRED HOFF	1969	25.	198	10	10	GRMF	18	06-69 10	H	
0227	05	08S	12W	H E WILSON	1973	20.	1573	6	60	MOCN	+75	05-73	H	101
0247	09	03S	12W	ELROD UTIL INC	1974	22.	628	12	40	GRMF	1	08-74 350	N	107
0251	11	03S	12W	COAST WATER WKS	1975	26.	850	12	60	GRMF	23	10-82 500	P	109
0262	10	03S	12W	COAST WATER WKS	1978	28.	916	10	64	GRMF	22	10-82 400	U	
0268	13	03S	12W	LONG BEACH	1978	25.	876	16	60	GRMF	23	10-82 10	P	129

Table 5, Continued

## Jackson County

WELL NO.	LOCATION		TOWN-SECTION	SHIP	RANGE	OWNER	DATE DRILL-LED	ALTI-TUDE (FT)	WELL DEPTH (FT)	CAS-ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI-FER	WATER LEVEL		PUMP (GPM)	WATER USE	ANAL-YSIS	ELECTR LOG
													ABOVE(+) OR BELOW LAND SUR-FACE (FT)	DATE				
K014	36	04S			06W	W S LOWERY	1960	52.	575	6	40	PCGL	8	09-60		H		
K033	31	04S			05W	WADE-MURLEY SCHOOL	1958	87.	424	6	40	PCGL	25	08-53		H	B	319
K052	31	04S			05W	JACKSON CO SCHOOL	1974	85.	419	6	42	MOCN	30	03-74	80			
K062	31	04S			05W	JACKSON CO SCHOOL	1982	84.	407	6	30	MOCN	34	05-82	100			239
K038	27	05S			07W	HYGIENE FOODS	1953	20.	144	6	20	GRMF	21	10-82		H		
K150	15	06S			07W	JACKSON CO SCHOOL	1982	30.	904	6	30	PCGL			100	H		
K154	16	05S			07W	U S POST OFFICE	1984	20.	186	5	15	MOCN	39	04-84	25			
LC32	26	05S			05W	ESCATAMPA UTIL DIST	1965	10.	245	12	25	PCGL	54	10-82	265		E	
L099	11	06S			06W	MISS POWER CO	1972	20.	1255	6	40	MOCN	+16	07-72	125			202
L114	11	06S			05W	MISS POWER CO	1977	20.	313	18	50	PCGL	5	04-77	500			
L119	25	05S			05W	INTL PAPER	1984	8.	242	6	15	MOCN	20	06-84	85			
M028	13	07S			09W	GULF HILL REACO	1959	25.	976	8	60	PCGL	+1	07-59	250			
M048	19	07S			03W	L&N RAILROAD	1912	23.	535	6	40	GRMF	+8	09-39	85			
M051	25	07S			03W	OCEAN SPRINGS	1929	15.	880	6	60	PCGL	32	10-82	175			
M052	37	08S			03W	OCEAN SPRINGS	1949	20.	555	8	60	PCGL	+3	01-49	350			
M053	19	07S			03W	OCEAN SPRINGS	1956	20.	500	10	60	GRMF	82	10-82	630			
M055	37	03S			03W	OCEAN SPRINGS	1925	20.	841	8		PCGL			60			
M069	29	07S			03W	OCEAN SPRINGS	1958	23.	540	9	40	PCGL	9	12-58	85			
M072	32	07S			03W	OCEAN SPRINGS	1959	18.	550	6	40	PCGL	7	06-59	250			080
M074	28	07S			03W	OCEAN SPRINGS	1960	22.	525	12	40	GRMF	15	08-60	250		B	
M090	29	07S			08W	OCEAN SPRINGS	1966	20.	565	12	60	PCGL	74	10-82	300			165
M093	21	07S			09W	OCEAN SPRINGS	1965	22.	495	12	60	GRMF	12	12-65	250			167

Table 5, Continued

**Jackson County**

WELL NO.	LOCATION			DATE DRILLED	ALTITUDE (FT)	WELL DEPTH (FT)	CASING DIAM (IN)	SCREEN LENGTH (FT)	AQUIFER	WATER LEVEL			PUMP (GPM)	WATER USE	ANALYSIS	ELECTR LOG
	SECTION	SHIP	TOWN-RANGE							OWNER	ABOVE(+) OR BELOW LAND SURFACE (FT)	DATE				
N094	10	07S	09W	E V SHOVE	1967	40.	1134	6	40	MOCN	2	10-82		H		
N095	10	07S	09W	BAY WATER WORKS	1967	39.	599	8	60	PCGL	25	10-67	250	P		
N096	10	07S	09W	COAST WATER WKS	1968	40.	853	10	60	PCGL				P		
N159	37	07S	08W	OCEAN SPRINGS	1963	10.	981	18	60	PCGL	5	05-63	400	P	B	
N175	15	07S	09W	RIVERA UTILITY	1966	25.	925	6	40	PCGL	11	10-66	150	P		
N213	14	07S	09W	SEASHORE UTL	1968	5.	924	6	40	PCGL	2	10-68	120	P		
N217	24	07S	09W	COAST WATER WKS	1968	10.	525	8	50	PCGL	65	10-82	250	P		
N246	10	07S	09W	E V SHOVE	1969	40.	968	6	50	PCGL	53	10-82	165	I		
N272	18	07S	08W	SUBURBAN UTL CO	1969	10.	499	12	60	GRMF	64	09-82	400	P		
N279	18	07S	08W	SUBURBAN UTL CO	1961	25.	1199	10	80	PCGL	+16	09-82	420	P	B	
N238	19	07S	09W	SUBURBAN UTL CO	1972	25.	505	10	92	GRMF	75	09-82	500	P		192
N355	10	07S	09W	BAY WATER WORKS	1971	45.	792	12	60	PCGL	27	11-71	350	P		
N391	13	07S	09W	COAST WATER WKS	1972	17.	874	10	60	PCGL	30	10-82	250	P		
N391	13	07S	08W	COAST WATER WKS	1959	25.	876	8	60	PCGL	39	10-82	250	P		210
N425	11	07S	09W	GULF PARK EST	1973	10.	1055	10	50	PCGL	10	07-73	350	P		214
N451	07	07S	09W	RIVIERA UTL	1973	40.	865	12	50	PCGL	32	06-74	500	P		218
N461	10	07S	09W	BAY WATER WORKS	1964	15.	792	6	40	PCGL	4	06-64	130	P		222
N462	35	07S	09W	GULF PARK EST	1973	15.	519	10	80	GRMF	15	10-73	350	P		
N479	33	07S	03W	GULF C RES LAB	1976	18.	578	6	40	GRMF	63	10-82	100	T		
N499	11	07S	09W	FRASIER'S NURSERY	1980	15.	484	6	55	MOCN	40	11-80	210	I		
N490	33	07S	03W	DEPT OF INTERIOR	1980	15.	560	6	30	MOCN	59	12-80		H		
N496	11	09S	03W	OCEAN SPRGS SEAFOOD	1981	15.	940	6	30	PCGL	20	04-81	120	N		236
N500	12	07S	09W	PORTEAUX BAY SUBD	1981	33.	784	10	60	PCGL	24	12-81	300	P		244
N505	13	07S	08W	SUBURBAN UTL	1982	25.	482	10	22	GRMF	81	11-82	254	P		245
N524	16	07S	09W	JACKSON CO SCHOOL	1982	25.	352	6	30	PCGL	33	01-83	100	T		
N512	13	07S	09W	COAST WATER WKS	1978	25.	512	6	40	GRMF	54	02-78	150	P		
N0048	12	09S	07W	NATIONAL PARK HORN I	1943	10.	910	6	40	PCGL	+2	06-74		H	B	
N0049	22	09S	07W	NATIONAL PARK HORN I	1943	10.	836	6	40	PCGL	+4	06-74		H	B	
N0052	36	07S	07W	S C JR COLLEGE	1964	20.	870	6	60	PCGL	2	09-64	130	T		148

Table 5, Continued

## Jackson County

WELL NO.	LOCATION			DATE DRILL- LED	ALTI- TUDE (FT)	WELL DEPTH (FT)	CAS- ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI- FER	WATER LEVEL		PUMP (GPM)	WATER USE	ANAL- YSIS	ELECTR LOG
	SECT- TION	TOWN- SHIP	RANGE							ABOVE(+) OR BELOW LAND SUR- FACE (FT)	DATE				
0073	12	03S	07W	1965	8.	762	6	40	PCGL	+9	02-65	100	P	B	158
0087	14	03S	07W	1965	5.	777	6	40	PCGL	9	02-65		H		
0115	12	03S	07W	1968	9.	770	6	40	PCGL				H		175
0126	35	07S	07W	1968	20.	772	6	40	PCGL	18	09-68	150	P		
0156	02	03S	07W	1970	15.	760	10	40	PCGL	15	08-70	300	P	B	183
0197	12	03S	07W	1969	10.	628	16	55	PCGL	43	10-82	377	T	B	196
0201	36	07S	07W	1971	10.	775	6	50	PCGL	20	11-71	250	U		
0212	26	07S	07W	1972	20.	704	10	40	PCGL				U	B	
0235	14	07S	07W	1972	15.	774	10	40	PCGL	23	10-72	300	U		200
0236	12	03S	07W	1972	20.	773	10	40	PCGL	17	05-72	300	P		
0239	24	07S	07W	1972	10.	760	8	50	PCGL	12	11-72	275	P		203
0243	13	07S	07W	1972	3.	712	10	60	PCGL	33	10-82	350	P		204
0249	26	07S	07W	1974	20.	870	8	40	MOCN	34	08-74	150	H		215
0283	35	07S	07W	1978	21.	870	8	40	PCGL	33	05-78	200	T		229
0286	35	07S	07W	1979	21.	569	12	70	PCGL	46	10-82	754	H		
0287	11	07S	07W	1979	17.	190	6	30	GRMF	15	11-79		R		232
0290	35	07S	07W	1980	20.	299	6	30	GRMF	25	10-82	180	H		
0295	15	09S	07W	1981	10.	584	8	30	GRMF	59	03-81	200	P		
0301	15	03S	07W	1971	10.	615	6	30	PCGL	45	06-71	150	P		
0302	01	07S	06W	1912	10.	450	4	20	GRMF	+5	05-59	20	H		
0321	09	07S	06W	1956	14.	1220	2		PCGL	+41	05-59	0	H		
0337	30	07S	06W	1946	10.	286	6		GRMF	11	01-46		U		
0340	30	07S	06W	1943	10.	283	3		GRMF	15			U		
0347	25	07S	06W	1954	11.	96	6	20	CRNL	6			U		
0349	25	07S	06W	1907	6.	1100	4		PCGL	+23	05-39		U		
0349	25	07S	06W	1926	14.	1807	6		MOCN				U	B	
0350	25	07S	06W	1927	10.	1165	6		MOCN	+23	05-39		U		
0351	25	07S	06W	1950	20.	906	8		PCGL	+6	01-50		U	B	
0353	25	07S	06W	1940	23.	145	8		CRNL	23	04-60		U		
0354	25	07S	06W	1953	18.	803	12	40	PCGL	125	10-82	455	P	B	035

Table 5, Continued

## Jackson County

WELL NO.	LOCATION		OWNER	DATE DRILL- LED	ALTI- TUDE (FT)	WELL DEPTH (FT)	CAS- ING DIAM (IN)	SCREEN LENGTH (FT)	ADJUT- PER	WATER OR BELOW LAND SUR- FACE (FT)	DATE OR BELOW	PUMP (GPM)	WATER USE	ANAL- YSIS	ELECTR LOG
	SECT- TION	TOWN- SHIP RANGE									LEVEL				
P062	36	07S	06W	1959	16.	325	8		GRMF	45	01-50		U		
P063	36	07S	06W	1938	18.	350	6		GRMF	50	03-60		U		
P069	01	03S	06W	1956	12.	292	12	10	GRMF	87	10-82	370	P	B	
P069	01	03S	06W	1956	14.	302	12	80	GRMF	99	10-82	470	P	B	
P070	01	09S	06W	1955	16.	179	8	50	CRNL	17	10-82		Z	B	
P071	01	09S	06W	1944	16.	180	14	10	CRNL	15	01-60		U		
P072	01	03S	06W	1949	15.	336	12	80	GRMF	40	10-60	250	N	B	
P095	02	03S	06W	1903	9.	714	6		PCGL				U		
P107	07	03S	06W	1951	5.	180	10		CRNL	11	01-59		U		
P108	05	03S	06W	1957	7.	783	18	60	PCGL	69	10-82	750	N	B	
P109	05	03S	06W	1916	14.	375	6		PCGL	+24	09-19	300	U		
P113	05	03S	06W	1941	13.	388	10	80	GRMF	66	10-82		U	B	
P114	05	08S	06W	1952	5.	307	8	40	GRMF	36	09-59		N		
P115	05	03S	06W	1958	3.	316	12	50	GRMF	58	10-82	574	N	B	
P117	05	03S	06W	1939	11.	306	8	50	GRMF	52	04-60		U		
P121	11	03S	06W	1939	9.	340	8		GRMF	45	04-60		U		
P124	07	03S	06W	1943	11.	301	12	80	PCGL	72	10-82	400	P		
P128	05	03S	06W	1947	13.	110	8		CRNL	14	05-60		U		
P131	05	03S	06W	1943	4.	312	12	60	PCGL			12	U		
P134	05	08S	06W	1946	11.	750	12		PCGL	65	10-82	280	U	B	
P135	14	09S	06W	1910	13.	750	6		PCGL	+2	08-41		U		
P138	09	03S	06W	1916	10.	750	6		PCGL	+13	05-39	400	U		
P145	05	08S	06W	1968	10.	305	18	77	PCGL	93	10-82	17	N		
P149	12	07S	06W	1964	10.	1123	8		MOCH				U		
P150	05	09S	06W	1965	10.	785	12	60	PCGL	68	10-82	730	P		157
P151	04	07S	06W	1963	10.	730	6		PCGL	44	10-82	100	P		172
P157	01	08S	06W	1938	7.	143	6	50	CRNL	12			U		
P155	24	07S	06W	1958	5.	214	6		CRNL				U		
P166	05	07S	08W	1964	10.	326	12	50	GRMF	68	10-82	500	N		
P218	09	08S	06W	1964	10.	940	6	40	PCGL	+9	03-64	60	U		

Table 5, Continued

## Jackson County

WELL NO.	LOCATION SECTION TOWN-SHIP	OWNER	DATE DRILL- LED	ALTI- TUDE (FT)	WELL DEPTH (FT)	CAS- ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI- FER	WATER OR BELOW LAND SUR- FACE (FT)	PUMP (GPM)	WATER USE	ANAL- YSIS	ELECTR LOG
P223	25 07S	MOSS POINT	1929	10.	79	12		CRNL			U		
P224	25 07S	MOSS POINT	1927	10.	155	12		GRMF			U		
P226	13 07S	ESCATAWPA UTL DIST	1965	10.	345	10	22	PCGL	16	10-65	P		
P227	09 07S	JACKSON CTY	1965	10.	347	10	22	PCGL	18	10-65	U		
P228	12 07S	JACKSON CTY	1964	10.	415	10	58	PCGL	20	09-64	U		
P229	10 07S	MOSS POINT	1965	10.	990	16	50	PCGL	29	10-82	P		
P291	03 04S	INGALLS SHIPYRD	1969	10.	280	16	42	GRMF	93	10-82	C		173
P293	03 03S	INGALLS SHIPYRD	1969	13.	597	16	56	PCGL	24	05-69	U		180
P301	07 07S	GULF CITY FISH	1967	20.	319	8	75	PCGL	44	06-67	U		
P304	09 03S	DELTA CREOSOTE	1967	10.	294	8	76	GRMF	15	08-67	U		
P306	06 03S	CONCRETE PRODUC	1962	10.	325	6	30	PCGL	31	07-63	Z		
P345	04 07S	MARTIN BLUFF WA	1973	23.	347	12	65	PCGL	43	10-82	P		207
P348	06 03S	INGALLS	1971	10.	300	18	60	PCGL	95	10-82	N		197
P349	08 03S	INGALLS	1972	10.	782	8	60	PCGL	74	10-82	N		
P355	36 07S	MOSS POINT	1973	14.	927	18	60	GRMF	132	10-82	P		209
P370	01 03S	PASC ICE FREEZR	1969	16.	180	6	50	CRNL	19	03-75	N		
P372	05 03S	PASCAGOULA	1975	11.	336	12	100	GRMF	61	10-82	P		220
P373	03 03S	INGALLS	1977	8.	320	16	80	GRMF	49	10-82	N		224
P375	09 07S	ESCATAWPA UTL DIST	1976	10.	350	10	25	GRMF	59	10-82	P		
P376	12 07S	ESCATAWPA UTL DIST	1976	10.	417	10	50	GRMF	131	10-82	P		
P381	01 03S	CONTINENTAL CAN CO	1970	15.	300	8		GRMF	96	09-77	U		
P382	15 07S	MOSS POINT	1978	10.	846	16	80	PCGL	135	10-82	P		230
P385	07 03S	GULF CITY FISH	1978	3.	327	8	60	GRMF	64	12-73	N		
P390	07 08S	HUDSON SHIPYRD	1981	20.	300	6	20	GRMF	27	06-81	N		
P395	02 03S	MAGNOLIA OAKS	1974	12.	725	8	40	PCGL	35	03-74	P		
P396	07 03S	GULF COAST FISHERIES	1982	10.	320	8	60	GRMF	65	10-82	N		
Q014	19 07S	THIKOL CHEM	1951	5.	173	8	40	GRMF	15	09-59	Z		B
Q015	19 07S	THIKOL CHEM	1956	3.	250	8		GRMF			U		B
Q016	19 07S	THIKOL CHEM	1952	7.	367	8	60	PCGL	+1	10-82	U		
Q017	19 07S	THIKOL CHEM	1952	8.	182	8	40	GRMF	5	03-52	U		

Table 5, Continued

## Jackson County

WELL NO.	LOCATION		DATE DRILL-LED	ALTI-TUDE (FT)	WELL DEPTH (FT)	CAS-ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI-FER	WATER LEVEL		PUMP (GPM)	WATER USE	ANAL-YSIS	ELECTR LOG
	SECT-ION	TOWN-SHIP RANGE							ABOVE(+) OR BELOW LAND SUR-FACE (FT)	DATE				
2018	12	07S	05W			1959	8.	250	12	40	GRMF	17	12-52	Z B
2019	19	07S	05W			1956	6.	950	6	45	PCGL			N
2022	19	07S	05W			1951	5.	173	6		CRNL	11	10-51	U
2023	20	07S	05W			1957	5.	183	6	30	CRNL	11	02-57	U
2024	20	07S	05W			1948	5.	247	10		GRMF	7	04-53	U
2026	20	07S	05W			1949	6.	130	10		GRMF			U B
2027	20	07S	05W			1956	4.	231	10	50	GRMF	14	01-55	N
2028	21	07S	05W			1937	7.	263	12	30	GRMF	73	05-47	U
2029	21	07S	05W			1948	7.	251	12	35	GRMF	90	04-50	N
2030	21	07S	05W			1948	7.	251	12	35	GRMF	65	09-43	N B
2057	30	07S	05W			1953	8.	954	8	20	PCGL		01-53	U
2058	30	07S	05W			1959	7.	792	12	40	PCGL	15	04-59	U
2070	07	03S	05W			1959	12.	654	5		PCGL	25	10-60	U
2072	07	03S	05W			1959	10.	299	6		GRMF	50	09-59	U
2073	07	03S	05W			1960	10.	665	6	35	PCGL	23	06-60	U
2075	07	03S	05W			1960	10.	560	6		PCGL	25	11-60	U
2087	08	08S	05W			1958	3.	218	6	30	CRNL			U
2095	18	03S	05W			1953	4.	156	8		CRVL	3	09-53	U
2100	20	03S	05W			1957	4.	374	12	60	GRMF	15	06-53	N B
2101	20	03S	05W			1958	4.	374	12	60	GRMF	20	09-53	U
2103	20	03S	05W			1959	2.	372	12	50	GRMF	12	04-52	U
2106	16	03S	05W			1959	4.	348	6	5	GRMF	43	08-52	U
2107	17	03S	05W			1957	3.	342	12	45	GRMF	12	05-57	N
2108	17	03S	05W			1958	3.	350	12	50	GRMF	134	01-70	N B
2110	17	03S	05W			1957	9.	363	12	56	GRMF	12	03-57	N B
2111	17	03S	05W			1958	10.	351	12	50	GRMF	61	10-82	N B
2112	09	03S	05W			1960	3.	202	6	10	CRNL	11	10-82	U
2115	09	03S	05W			1960	8.	197	6	40	CRNL	9	05-60	U
2117	05	03S	05W			1960	13.	1102	6		40CN			U
2123	17	03S	05W			1962	6.	362	12	50	GRMF	75	05-62	N



Table 5, Continued

## Jackson County

WELL NO.	LOCATION		OWNER	DATE DRIL-LED	ALTI-TUDE (FT)	WELL DEPTH (FT)	CAS-ING DIAM (IN)	SCREEN LENGTH (FT)	AQUI-FER	WATER LEVEL		PUMP (GPM)	WATER USE	ANAL-YSIS	ELECTR LOG
	SECT-	TOWN-								ABOVE(+) OR BELOW LAND SUR-FACE (FT)	DATE				
2422	21	075	OSW	1977	6.	255	24	50	GRMF	62	04-77	500	N	B	226
2424	30	085	OSW	1976	12.	182	6	60	CRNL	25	09-76		U		
2428	20	085	OSW	1981	3.	215	6	20	GRMF	45	06-81	175	N		
2429	05	075	OSW	1983	15.	559	6	49	PCGL			100	P		

### Aquifer Hydraulic Characteristics

The hydraulic characteristics of aquifers, determined by means of pumping tests or by estimates, are used to plan well construction and to provide a basis for management studies. Wells can be designed for the most efficient operation where planning is based on known characteristics. The most economical and efficient planning for ground-water production can be done by basing distribution of wells and withdrawals on studies of aquifer hydraulic characteristics or, more effectively, by aquifer digital modeling.

Aquifers in the coastal area are characterized by great variation from place to place in transmissivity (the capacity to transmit water). Transmissivity is the product of hydraulic conductivity (a function of the size and arrangement and interconnection of pore openings) and aquifer thickness. Newcome (1971) reported that values as determined by pumping tests in the coastal area range for transmissivity from 1,800 to 26,000 ft<sup>2</sup>/d; for hydraulic conductivity, from 26 to 230 ft/d; and for storage coefficients for confined aquifers in the coastal area, from 0.0001 to 0.0007, averaging about 0.0003. Storage coefficients can be used in the calculation of the volume of water derived from compaction of the aquifer and associated clay beds as pressure is lowered.

Aquifer characteristics determined through pumping tests are specific for the aquifer in which the well is screened and for the vicinity of the pumped well. In the coastal area, the freshwater section commonly includes several aquifers, and the transmissivity of the aquifer system equals the combined value for all aquifers.

The freshwater zone thickens and individual sand beds become thicker and more numerous from east to west. Hydraulic conductivity values generally are higher for thicker beds of sand (Payne, 1968, p. 6), a concept supported by values for hydraulic conductivity found in the coastal counties (table 6). Average values are 66 ft/d for Jackson County, 126 ft/d for Harrison County, and 115 ft/d for Hancock County. Using data from table 6, thickness of the freshwater zone from Gandl (1982), and cumulative sand (aquifer) thickness from geophysical logs, average calculated values for transmissivity along latitude 30°30' follow:

	Thick- ness of freshwater zone (feet)	Cumu- lative sand thickness (feet)	Hydrau- lic con- ductivity (ft/d)	Trans- missivity (ft <sup>2</sup> /d)
Hancock County	2,800	930	115	107,000
Harrison County	2,400	800	126	101,000
Jackson County	1,600	530	66	35,000

Table 6.--Summary of pumping tests in Hancock, Harrison, and Jackson Counties, Mississippi  
(from Newcome, 1971)

Water-bearing units: CRNL, Citronelle Formation; GRMF, Graham Ferry Formation; PCGL, Pascagoula Formation;  
MOCN, Miocene Series, undifferentiated

WELL NO.	OWNER	DATE	DEPTH FT	AQUI- FER	AQUI- FER THICK- NESS FT	SCREEN LENGTH FT	PUMP PERIOD HRS	TEST YIELD GPM	SPEC. CAPA- CITY GPM/FT 1-DAY	TRANS- MISSI- BILITY GPD/FT	PERNEA- BILITY GPD/FT <sup>2</sup>	STOR. COEF.	TRANS- MISSI- BILITY FT <sup>2</sup> /D	HYDRO- CON- DUCTI- VITY FT/D
HANCOCK COUNTY														
F005	NSTL	1965	644	MOCN	110	60	2	300	20	110000	1000	0.0002	14000	130
H004	NSTL	1964	1873	MOCN	180	70	24	3550	12	100000	550		13000	74
H006	NSTL	1964	1695	MOCN	120	110	24	4900	26	200000	1600		26000	220
H007	NSTL	1964	1434	MOCN	87	63	30	1018	15	81000	930		10000	120
H008	NSTL	1965	672	MOCN	170	140	24	5000	47	120000	700	.0002	16000	94
H011	NSTL	1967	676	GRMF	60	30	8	141	2.7	46000	760		6100	100
H012	NSTL	1967	599	GRMF	70	30	8	141	3.8	14000	200		1800	26
H013	NSTL	1967	491	GRMF	41	30	8	141	6.4	40000	970		5300	130
H014	NSTL	1968	144	CRNL	60	60	47	510	46	84000	1400	.0001	11000	180
H034	L W BROOKS	1965	1323	MOCN	80	20	1	50	.9	47000	580		6200	78
HARRISON COUNTY														
C018	EXPER FOREST	1965	638	MOCN	50	50	1	150	17	75000	1500		10000	200
C081	SAUCIER UTIL	1971	776	MOCN	40	30	2	150	2.9	8000	200		1000	26
G019	U S FISH HATCH	1965	429	GRMF	85	20	1	32	10	64000	750		8500	100
G020	U S FISH HATCH	1965	431	GRMF	85	20	170	60	6.0	61000	710		8100	95
G024	U S FISH HATCH	1965	790	MOCN	120	60	100	75	31	110000	910	.0003	14000	120
L002	GULFPORT	1964	815	MOCN	60	60	4	1100	19	51000	850		6800	110
L014	GULFPORT	1964	763	MOCN	60	60	5	965	12	85000	1400		11000	180
L015	GULFPORT	1964	752	MOCN	76	63	72	960	32	65000	850		8600	110
L016	GULFPORT	1966	815	MOCN	82	70	2	975	25	55000	670	.0002	7300	89
L017	GULFPORT	1966	848	MOCN	123	80	100	500	13	37000	300		4900	40
L034	NATIONAL TANK	1968	584	GRMF	92	60	8	602	19	48000	520		6400	69
L035	PLUMMER-DEDEAUX	1968	730	MOCN	120	50	2	280	8.9	70000	580		9300	77
L084	GULFPORT AIRPRT	1964	645	GRMF	100	63	3	860	16	27000	270	.0002	3600	36
L116	ORANGE GROVE	1968	437	GRMF		50	6	125		16000			2100	
L147	GULFPORT	1966	953	MOCN	92	71	1	665		18000	190	.0003	2400	26
L149	GULFPORT	1966	1242	PCGL	80	80	1	710		96000	1200		12000	160
L160	U S NAVY	1965	1196	PCGL	43	29	1	822	12	66000	1500		8800	200
L161	U S NAVY	1965	850	MOCN	38	30	1	526	5.0	16000	420		2100	56
L162	U S NAVY	1965	757	MOCN	88	60	2	500	23	75000	850		10000	110
M002	BILOXI	1964	1207	PCGL	116	80	1	235	13	100000	860		13000	110
M004	BILOXI	1964	1200	PCGL	100	80	1	460	26	100000	1000		13000	130
M023	MISS POWER CO	1964	755	MOCN	87	60	7	380	14	110000	1200	.0004	14000	160
M024	MISS POWER CO	1964	845	MOCN	90	60	1	317	27	110000	1200	.0006	14000	160
M040	COAST WATER WKS	1966	654	GRMF	80	50	1	350	20	120000	1500		16000	200
M049	REICHHOLD CHEM	1965	745	MOCN	72	60	1	527	18	41000	560		5400	76
M064	U S AIR FORCE	1964	620	GRMF	100	40	4	620	18	100000	1000	.0003	13000	130
M068	U S AIR FORCE	1964	618	GRMF	60	40	1	560	10	60000	1000	.0004	8000	130
M075	U S AIR FORCE	1964	610	GRMF	64	40	2	700	19	62000	960		8200	120
M076	U S AIR FORCE	1964	630	GRMF	100	40	2	740	22	67000	670		8900	89
M078	U S AIR FORCE	1964	641	GRMF	100	40		720	16	73000	730		9700	97
M079	U S AIR FORCE	1964	640	GRMF	80	40	2	800	25	80000	1000		10000	130
M115	BILOXI	1964	1226	PCGL	124	40	2	900	12	98000	790		13000	100
M119	BILOXI	1964	1182	PCGL	100	65	2	200	29	94000	940		12000	120
M147	MAVAR PACKING	1966	945	MOCN	80	60	1	950	17	84000	1000		11000	140
N003	PASS CHRISTIAN	1966	1111	PCGL	57	60	1	74	5.9	24000	420		3200	56
O006	PASS CHRISTIAN	1966	891	MOCN	95	50	1	435		140000	1400		18000	190
O008	COAST WATER WKS	1966	611	GRMF	50	40	1	340	11	56000	1100		7400	140
O011	COAST WATER WKS	1966	590	GRMF	57	40	1	330	18	100000	1700		13000	230
JACKSON COUNTY														
N096	CHERRY PARK SUB	1964	853	PCGL	154	60	1	411		62000	400		8200	53
P002	J BOUNDS	1959	450	GRMF		20	24	19	10	40000		.0003	5400	
P054	MOSS POINT	1958	808	PCGL	80	40	8	455	17	60000	750	.0007	8000	100
P069	PASCAGOULA	1967	302	GRMF	80	80		320	6.5	23000	280		3000	38
P114	QUAKER OATS CO	1959	300	GRMF	100	40	9	280		54000	540	.0005	7200	72
P124	PASCAGOULA	1967	801	PCGL	90	80		625	9.8	53000	580	.0003	7000	78
P150	PASCAGOULA	1967	785	PCGL	97	60	1	840	19	52000	530		6900	71
P291	INGALLS SHIPYD	1969	280	GRMF	50	42	1	492	7.8	18000	360		2400	48
Q057	MOSS POINT	1957	954	PCGL	56	20	8	500	13	60000	1000	.0001	8000	140
Q101	H K PORTER CO	1958	374	GRMF	50	60	8	140	1.4	24000	480		3200	64
Q108	COASTAL CHEM CO	1958	350	GRMF	60	50	8	450	10	18000	300		2400	40
Q111	COASTAL CHEM CO	1958	351	GRMF	64	50	8	450	12	22000	340	.0003	2900	35
Q115	JACKSON COUNTY	1960	197	CRNL	95	40	456	347	11	60000	630	.0004	8000	84
Q135	STANDARD OIL CO	1962	350	GRMF	90	50	48	602	15	23000	250	.0004	3000	34
Q137	STANDARD OIL CO	1962	387	GRMF	70	75	48	602	11	28000	400	.0002	3700	53

### Water-Level Changes

Water-level changes in shallow aquifers in or near recharge areas are seasonal in Mississippi, reflecting changes in precipitation, evaporation, and transpiration by vegetation. Water levels generally are highest in late spring and lowest in fall. Water levels in all confined aquifers have shown a long-term downward trend--the result of pumping for public, industrial, and military water supplies. Regional water-level declines averaging less than 2 feet per year are the result of pumping widely dispersed small wells, discharge of uncontrolled flowing wells, response to the stress of distant pumping centers, and natural discharge. Pronounced water-level declines have occurred where large withdrawals are made for public, industrial, and military water systems (Harvey and others 1965; Newcome and others, 1968; Wasson, 1978). Water-level records show that the largest decline in the coastal area is in the Pascagoula-Moss Point area where the potentiometric surface declined about 136 feet from about 16 feet above sea level in 1939 to about 120 feet below sea level by 1977--the result of large withdrawals and relatively low aquifer transmissive capacity (Wasson, 1978, p. 22 and fig. 9). The shallow Citronelle aquifer, however, declined less than 20 feet during the same period (fig. 20). Moderate water-level declines have occurred at Biloxi and Gulfport. Recent measurements by the U.S. Geological Survey show that the lowest static water levels in the Biloxi-Gulfport area are now about 50 feet below sea level (B. E. Wasson, personal commun., 1984)--a decline averaging about 100 feet from the earliest levels reported (Newcome and others, 1968, p. 66). Hydrographs of representative observation wells in the coastal area are shown in figures 21, 22, and 23. Areas of significant water-level declines in the Miocene aquifer system are shown in figure 18.

### Saltwater Encroachment

Saltwater encroachment (or intrusion) into ground-water bodies is commonly considered to be a situation wherein aquifers are in direct hydraulic contact with the sea or salty estuarine water and where, as a result of head differences, saltwater moves into freshwater aquifers. Another source of saltwater is connate water--water that was trapped in the sediments at the time of deposition (Glossary of Geology, 1972).

The extent of saltwater encroachment in the Mississippi coastal area is unknown. The deepest water wells on the barrier islands do not penetrate to the base of freshwater and therefore the chemical character of water in the deeper aquifers underlying and south of Mississippi Sound has not been determined. Anomalous occurrences of saline water observed over 40 years ago in deep wells in several localities along the coast were attributed to connate water by Brown and others (1944, p. 91).

The shallow unconfined aquifers along the Mississippi Sound and those underlying and in hydraulic connection with coastal streams and estuaries are subject to saltwater intrusion from Mississippi Sound and from saltwater wedges that penetrate upstream (Bednar, 1978a, 1978b, and 1979; Shattles, 1973).

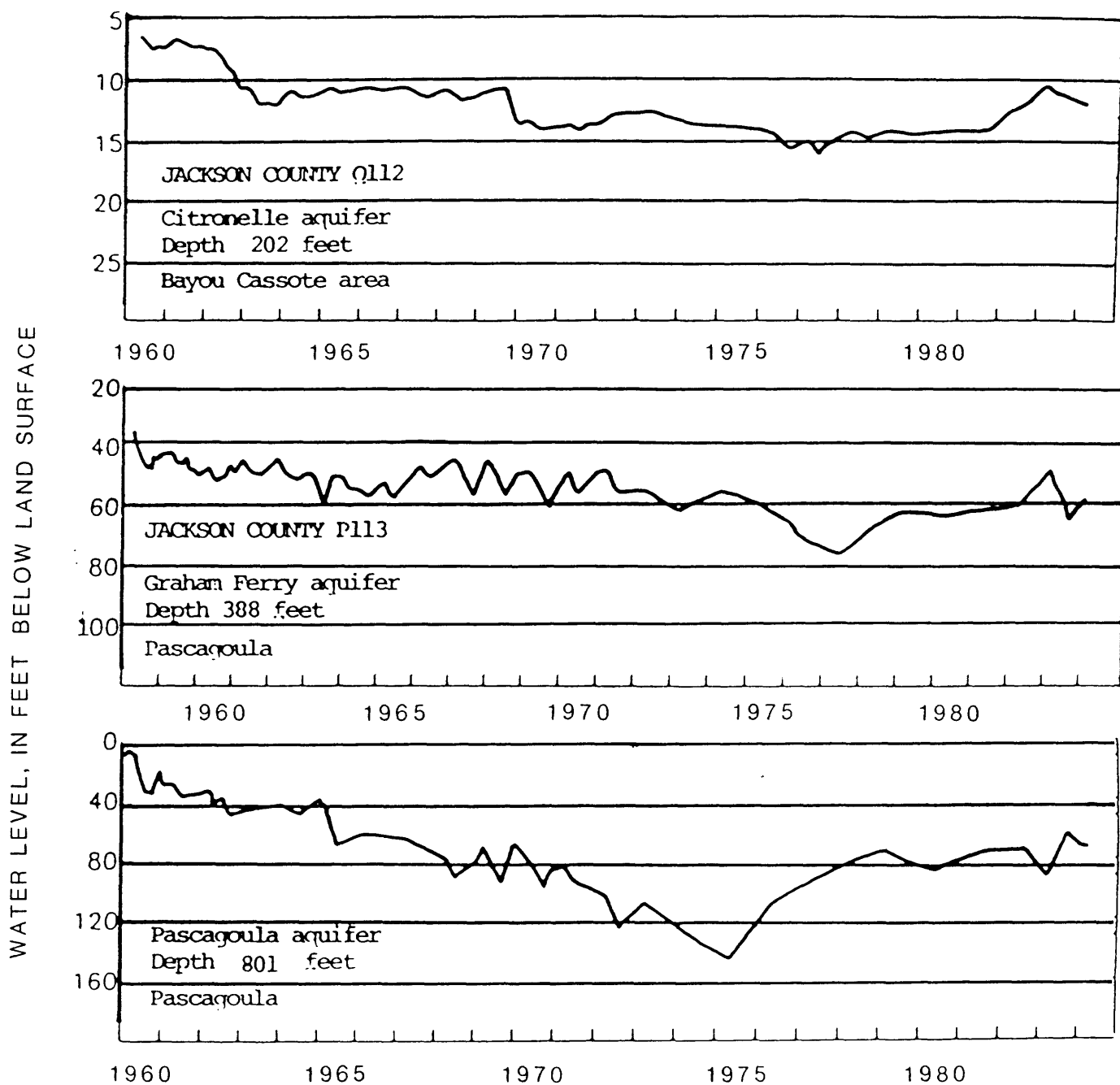


Figure 20.--Hydrographs showing water-level changes in representative wells in the Moss Point-Pascagoula area.

WATER LEVEL, IN FEET BELOW LAND SURFACE

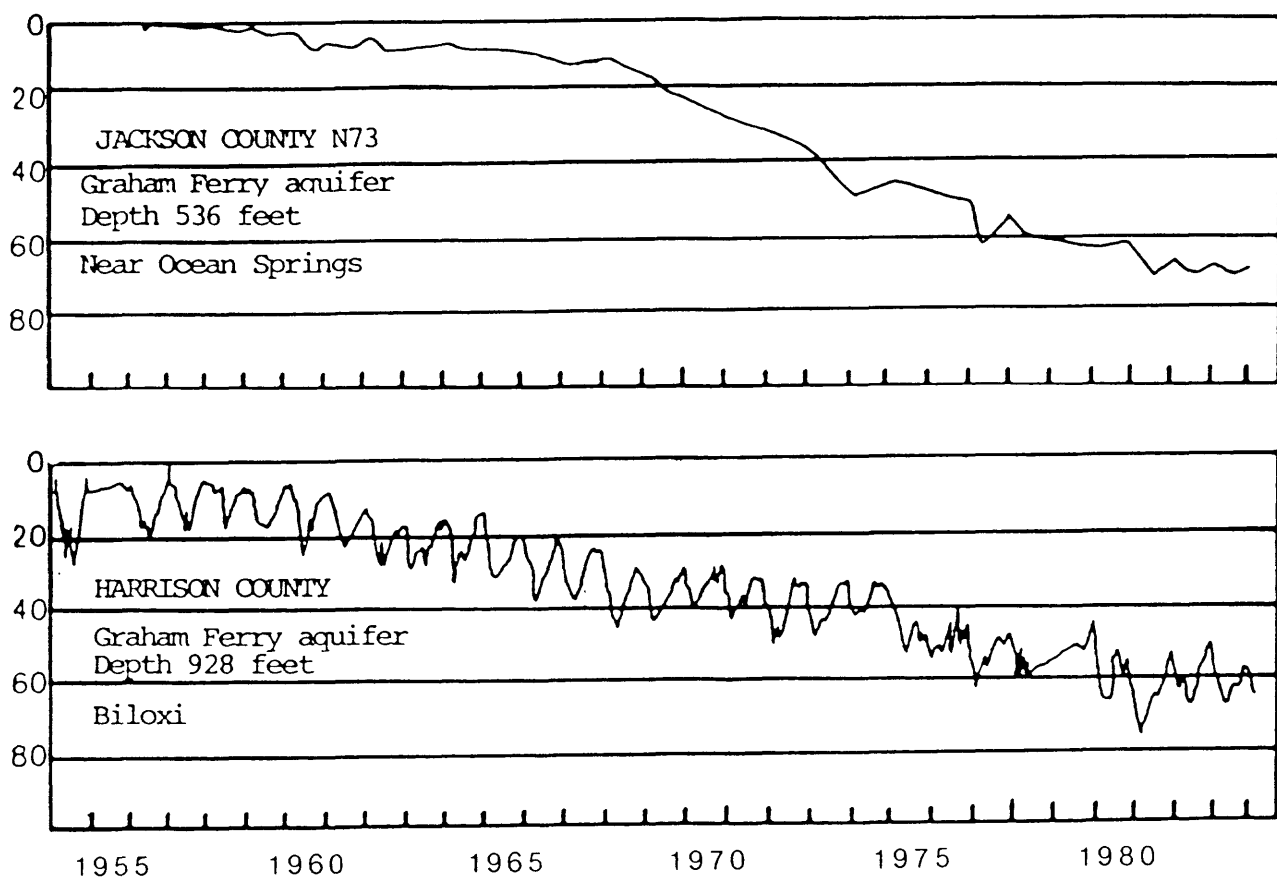


Figure 21.--Hydrographs showing water-level changes in representative well in the Biloxi-Ocean Springs area.

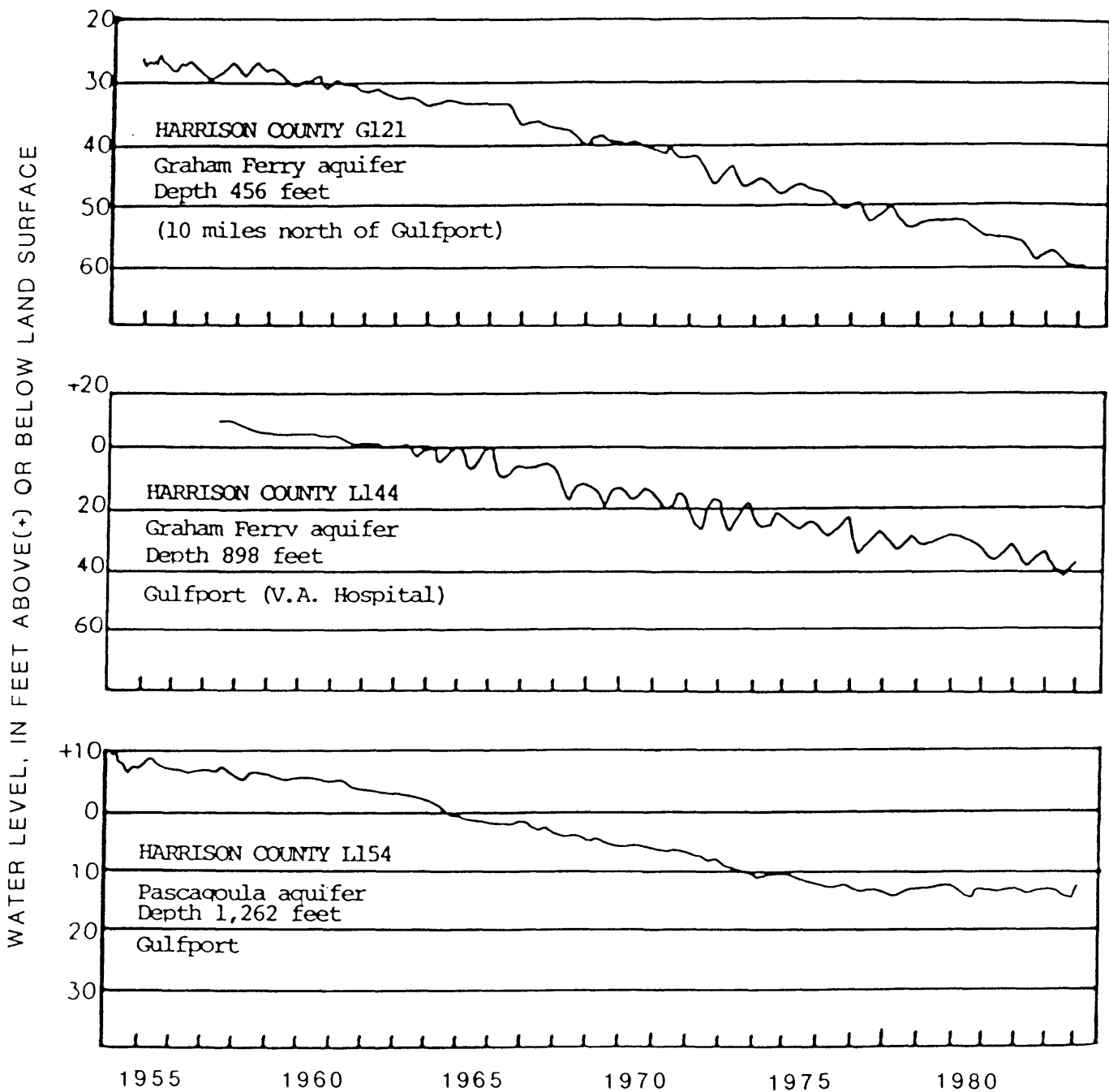


Figure 22.—Hydrographs showing water-level changes in representative wells in the Gulfport area.

WATER LEVEL, IN FEET ABOVE(+) OR BELOW LAND SURFACE

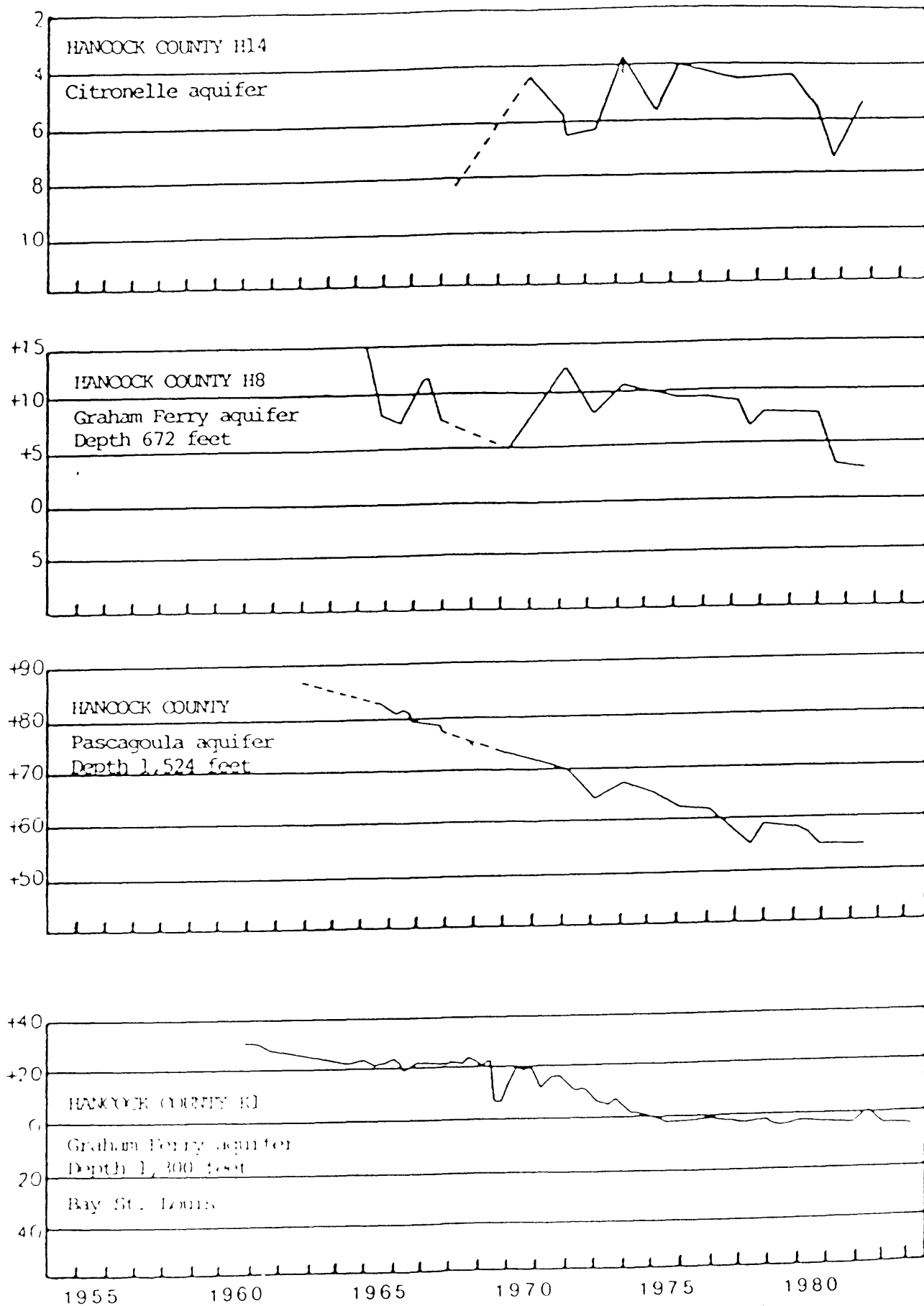


Figure 23.--Hydrographs showing water-level changes in representative wells in Hancock County.



## Ground-Water Quality

The statistical summary of data in Appendix B gives a comparison of ground-water quality in the major freshwater aquifers and shows the range in the concentrations of chemical constituents and the physical properties of water in the respective aquifers. Water in the Citronelle and Miocene aquifers is generally of good quality and is satisfactory for municipal use and many industrial purposes (Boswell, 1979; Newcome, 1975). The amount of water presently withdrawn from alluvial and terrace deposits is small and water-quality data are sparse.

Wells tapping the Citronelle and Miocene aquifers produce water that is comparatively low in dissolved-solids (concentrations less than 500 mg/L) and that ranges from soft to moderately hard. Median pH, sodium, and alkalinity values indicate that soft, sodium bicarbonate-type water predominates in the deeper Miocene aquifers. Median pH values in the three-county area range from 6.7 to 8.6 units for water in the Citronelle aquifer and 8.0 to 8.6 units for water in the Miocene aquifer.

Median iron values range from 10 to 45 micrograms per liter (ug/L) for water in the Miocene aquifers and averages 770 ug/L for water in the Citronelle aquifer in Jackson County (Appendix 3). This suggests that water users encounter fewer iron problems with water from the deeper Miocene aquifers. Median silica values for the Citronelle (11.5 mg/L) and Miocene (17.0 mg/L) aquifers in Jackson County are lower than for these aquifers in Hancock and Harrison Counties. Silica concentrations in excess of 50 mg/L are observed in the Miocene aquifer system in Harrison and Jackson Counties. Median color values for water in the Citronelle and Miocene aquifers range from 5 to 30 units. In general, maximum color values that exceed 50 units are not typical of freshwater aquifers of the coastal counties.

Maximum values for all constituents are found in water from deeper wells or wells in areas where high dissolved solids occur anomously. High dissolved solids concentrations in the deep aquifers in the southeastern part of the Pascagoula area are believed to be related to the position of the freshwater-saltwater interface in the aquifer rather than to saltwater encroachment from Mississippi Sound or the Gulf of Mexico. The freshwater-saltwater interface in the Citronelle aquifer occurs near the edges of saltwater marshes (Wasson, 1978, p. 28) or near estuaries in the Pascagoula area. Similar conditions are presumed to prevail throughout the coastal area. Anomalous occurrences of highly mineralized water in the deeper aquifers in the Biloxi-Ocean Springs area has not been studied and studied.

Water temperatures in aquifers in the coastal area range from about 68°F (near the mean annual air temperature) in shallow aquifers to a projected maximum temperature of about 115°F at a depth of 3,000 feet (fig. 24), reflecting the average geothermal gradient in the area. The temperature of water discharged from wells screened at a given depth is affected by the discharge rate of the well and the length of pumping time as the water temperature declines during movement through shallower cooler strata.

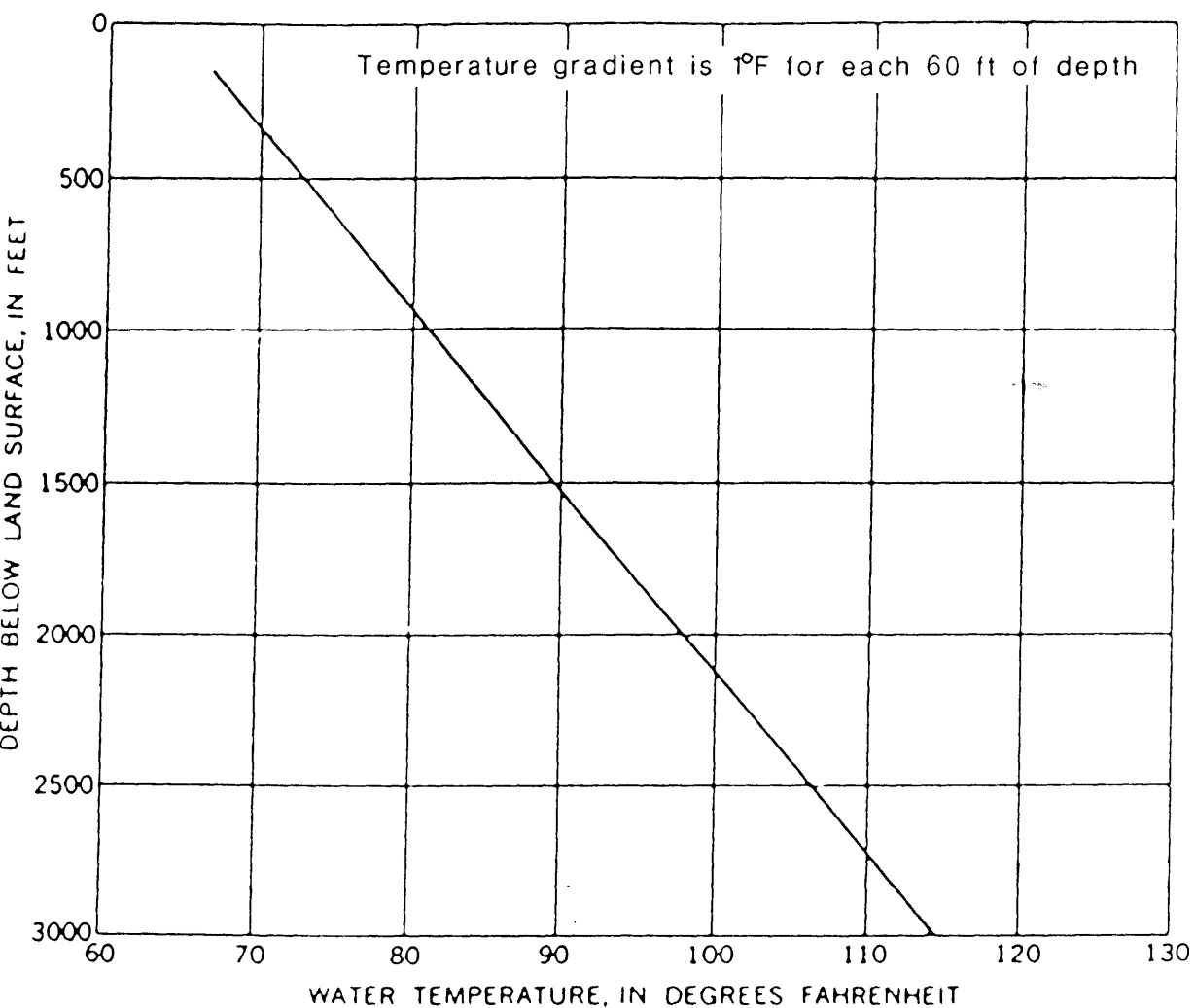


Figure 24.--Depth-temperature relation for ground water  
(from Newcome and others, 1968).

## SUMMARY

The Mississippi Gulf Coast area includes Hancock, Harrison, and Jackson Counties, Mississippi Sound, and the barrier islands. Rainfall in the area averages about 60 inches annually and temperatures during the summer months often reach 90°. The area is underlain by south-southwestward dipping strata of Miocene to Holocene age that are composed mostly of clay, silt, sand, and irregular gravelly beds. The oldest exposed strata belong to the Pascagoula Formation whereas the younger Graham Ferry and the Citronelle Formations are considered to be of Pliocene age in Mississippi.

The five drainage basins in the study area discharge into the Gulf of Mexico. The major streams are the Pearl, Jourdan, Wolf, Tchoutachabouffa, Biloxi, Escatawpa, and Pascagoula Rivers. The Pascagoula River (drainage area 9,498 mi<sup>2</sup>) has an average flow at Merrill of 9,873 ft<sup>3</sup>/s and a flow of 1,560 ft<sup>3</sup>/s is exceeded 90 percent of the time. The principal tributaries in the study area are Black Creek (drainage area 1,265 mi<sup>2</sup>), Red Creek (drainage area 491 mi<sup>2</sup>) and Escatawpa River (drainage area, 1,037 mi<sup>2</sup>).

The Tchoutachabouffa River basin (drainage area, 242 mi<sup>2</sup>) flows southward to a point just north of D'Iberville and then turns southwestward to enter the Back Bay of Biloxi. The principal tributaries of Tchoutachabouffa River are Tuxachanie Creek, Hurricane Creek, Bayou Billie, and Bayou Costapia. The average discharge of Tuxachanie Creek at State Highway 15 near Biloxi is 177 ft<sup>3</sup>/s and the flow equals or exceeds 8.6 ft<sup>3</sup>/s 90 percent of the time.

The Biloxi River drains 271 mi<sup>2</sup>, primarily in central Harrison County and discharges into Biloxi Bay. The minimum discharge observed without tide effect, 41.3 ft<sup>3</sup>/s, occurred in 1966. The average discharge of the Biloxi River at Wortham (96.1 mi<sup>2</sup>) is 187 ft<sup>3</sup>/s. The 7-day low flow at Wortham for a 10-year recurrence is 2.2 ft<sup>3</sup>/s and a flow of 7.8 ft<sup>3</sup>/s is exceeded 90 percent of the time.

The Wolf River drains 368 mi<sup>2</sup> in the western part of Harrison county and the northeastern corner of Hancock County. The average flow is 668 ft<sup>3</sup>/s or 29.45 in/yr at the site near Landon. The 7-day low flow for a 10-year recurrence interval is 43.6 ft<sup>3</sup>/s. A discharge of 82.3 ft<sup>3</sup>/s is equalled or exceeded 90 percent of the time.

Most of Hancock County is drained by the Jourdan River which discharges into St. Louis Bay. The total drainage area of 391 mi<sup>2</sup> is mostly rural with some urban areas. Tributaries to Jourdan River include Catahoula Creek, Bayou La Croix, Bayou Bacon, Rotten Bayou, Dead Tiger, Mill, and Hickory Creeks.

The Pearl River basin has a drainage area of 8,674 mi<sup>2</sup>. The drainage area at Bogalusa, La., is 6,573 mi<sup>2</sup> and the average discharge is 9,671 ft<sup>3</sup>/s. The 7-day low flow for a 10-year recurrence is 1,170 ft<sup>3</sup>/s. The minimum observed discharge of 1,020 ft<sup>3</sup>/s.

The Mississippi Gulf Coast is subject to headwater floods caused by excessive precipitation on the drainage basins and to hurricane induced flood tides along the coast. The most destructive flood of record resulted from Hurricane Camille in August 1969.

Records of storm tides for the Mississippi coast since 1882 have been recorded at Biloxi and significant tide elevations at various points along the Mississippi coast for more than 20 hurricanes since 1893 have been recorded.

Surface water in the streams of the area is generally soft and acidic with low concentrations of dissolved solids. The concentrations of dissolved oxygen are usually greater than 4 mg/L. Tannic acid is a source of high color in some streams. Suspended-sediment concentrations in streams generally are low.

The fresh ground-water zone thickens westward from the Alabama line to Hancock County and water-level differences indicate that there are several separate water-bearing zones in the coastal area. Aquifers include the Miocene aquifer system, the Citronelle aquifer and aquifers in younger alluvial and coastal deposits. The Citronelle aquifers overlie in places the recharge areas of all older coastal aquifers. Minor aquifers occur in alluvial deposits in the larger valleys and in the younger coastal deposits.

The source of water in all coastal aquifers is precipitation on the outcrop areas to the north-northeast. The shallowest major aquifers along the coast are replenished in an east-west band across the northern parts of the coastal counties and the aquifers that occur at intermediate depths are recharged farther northward to about the latitude of Wiggins. The deepest freshwater aquifers receive recharge north of the latitude of Wiggins. The regional gulfward movement of ground water is interrupted by cones of depression where large volumes of water are pumped.

The base of the freshwater zone increases in depth from about 1,200 feet east of Pascagoula to more than 2,400 feet in the Gulfport area. The deepest freshwater extends to slightly below 3,000 feet in western Hancock County. Wells on the barrier islands indicate that the salt-water interface in some zones is farther to the south.

Most large wells in the coastal counties are made at depths ranging from about 400 to about 1,000 feet. A few wells exceed 1,200 feet in depth and the deepest, a 2,400-foot well, was drilled recently at Gulfport. The highest measured pumping rate was 5,865 gpm from a 672-foot well at National Space Technology Laboratories. Values for hydraulic characteristics as determined by pumping tests in the area range from 1,800 to 26,000 ft<sup>2</sup>/d for transmissivity; from 26 to 230 ft/d for hydraulic conductivity; and for storage coefficients for confined aquifers in the coastal area, from 0.0001 to 0.0007, averaging about 0.0003. The freshwater zone thickens and individual sand beds become thicker and more numerous from east to west.

Regional water-level declines average less than 2 feet per year. The largest decline in the coastal area is in the cone of depression in the Pascagoula-Moss Point area--to about 136 feet below sea level by 1977. Water levels in the Biloxi-Gulfport cone of depression extend as deep as about 50 feet below sea level--about 100 feet below the earliest reported levels.

The shallow unconfined aquifers in hydraulic connection with coastal streams are subject to saltwater intrusion. The extent of saltwater encroachment in the confined aquifers in the Mississippi coastal area is unknown. Anomalous occurrences of saline water observed in several localities along the coast are attributed to connate water.

Wells tapping the Citronelle and Miocene aquifers produce water that is comparatively low in dissolved-solids concentrations. Sodium bicarbonate-type water predominates in the deeper Miocene aquifers. Silica concentrations in excess of 50 mg/L occur in Miocene aquifers in some wells in Harrison and Jackson Counties. Color values are generally less than 50 units.

High dissolved solids concentrations in the deep aquifers in the southeastern part of the Pascaogoula area may be related to the position of the normal freshwater-saltwater interface in the aquifer rather than to saltwater encroachment. Water temperatures in aquifers in the coastal area range from about 68°F in shallow aquifers to a projected maximum temperature of about 115°F at a depth of 3,000 feet.

All domestic and public water-supply systems use ground water; however, most of the water used in the area in terms of volume is surface water. Water use in the three counties in 1980 averaged about 770 Mgal/d of which 86 percent was brackish surface water. Freshwater use averaged about 109 Mgal/d of which 31.3 Mgal/d was for public water supplies. Fresh ground water use increased about 6 percent between 1975 and 1980; the use of surface water also increased.

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Appendix A.--INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HANCOCK COUNTY, MISSISSIPPI

NO.	YEAR	MA- JOR HARD- CAT- D.S. NESS	SIL- ICA	MAN GA- AN- NESE	FLU- O- RIDE	CAR- RI- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT NOL
301815089215300 WATTS BAYOU AT GLADSTONE STREET		LAT= 30 18 16 LONG= 089 21 53															
1974	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
SUM	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
3019140892220 WATTS BAYOU AT MI 0.72		LAT= 30 19 14 LONG= 089 22 20															
1974	5	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0
SUM	5	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0
301919089222400 WATTS BAYOU AT MI 0.66		LAT= 30 19 19 LONG= 089 22 24															
1974	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
SUM	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
301926089222500 WATTS BAYOU AT MI 0.54		LAT= 30 19 26 LONG= 089 22 25															
1974	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
SUM	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
301933089230300 EDWARDS BAYOU AT MI 0.68		LAT= 30 19 33 LONG= 089 23 03															
1974	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
SUM	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
30193908922259 EDWARDS BAYOU AT MI 0.52		LAT= 30 19 39 LONG= 089 22 59															
1974	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
SUM	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
301940089222300 WATTS BAYOU AT MI 0.26		LAT= 30 19 40 LONG= 089 22 23															
1974	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
SUM	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
301946089224700 EDWARDS BAYOU AT MI 0.28		LAT= 30 19 46 LONG= 089 22 47															
1974	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
SUM	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0

Appendix A.--INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HANCOCK COUNTY, MISSISSIPPI

NO. YEAR SAMPLE	D.S. NESS	MA- JOR CAT- IONS	SIL- IRON	MAN GA- AN-	FLU- O-	CAR- RI- BON	NUT- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- LOG-	BIO- IC	TUR- BID ITY	SUS- SED- I- PHE- MENT NOL
302007089225100 JOURDAN RIVER AT MI 1.36																	
1974	9	0	0	0	0	0	0	7	2	0	0	0	0	0	0	0	0
1977	20	0	0	0	0	0	2	16	4	0	16	0	0	0	2	2	0
SUM	29	0	0	0	0	0	2	23	6	0	16	0	0	0	2	2	0
302008089231000 JOURDAN RIVER AT MI 1.66																	
1974	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
SUM	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
302010089233600 JOURDAN RIVER AT MI 2.14																	
1974	10	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
1977	27	0	0	0	0	0	2	23	4	0	23	0	0	0	2	2	0
SUM	37	0	0	0	0	0	2	33	4	0	23	0	0	0	2	2	0
302015089220000 JOURDAN RIVER AT MI 0.50																	
1974	9	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
1977	25	0	0	0	0	0	2	21	4	0	21	0	0	0	2	2	0
SUM	34	0	0	0	0	0	2	30	4	0	21	0	0	0	2	2	0
302024089213200 JOURDAN RIVER AT MOUTH																	
1974	9	0	0	0	0	0	0	7	2	0	0	0	0	0	0	0	0
1977	18	0	0	0	0	0	2	14	4	0	14	0	0	0	2	2	0
SUM	27	0	0	0	0	0	2	21	6	0	14	0	0	0	2	2	0
302028089240000 JOURDAN RIVER AT MI 2.66																	
1974	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
1977	20	0	0	0	0	0	2	16	4	0	16	0	0	0	2	2	0
SUM	28	0	0	0	0	0	2	24	4	0	16	0	0	0	2	2	0
302039089241300 BAYOU LA CROIX AT MOUTH																	
1974	10	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
1975	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
1977	23	0	0	0	0	0	2	19	4	0	19	0	0	0	2	2	0
SUM	38	0	0	0	0	0	2	34	4	0	19	0	0	0	2	2	0



# Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984 FOR HANCOCK COUNTY, MISSISSIPPI

YEAR	SAMPL	NO.	D.S.	NESS	HARD- CAT- IONS	SIL- ICA	IRON	NESE	GA- AN-	MAN	JOR	FLU- O-	CAR- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT	NOL	
302310089274700 JOURDAN RIVER AT MI 12.96																										
1974	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	
SUM	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	
302311089233000 ROTTEN BAYOU AT MI 1.64																										
1974	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	
SUM	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	
302316089232400 ROTTEN BAYOU AT MI 2.20																										
1974	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	
SUM	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	
302319089270500 JOURDAN BAYOU AT MI 11.48																										
1974	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	
SUM	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	
302320089262700 JOURDAN RIVER AT MI 10.76																										
1974	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	
SUM	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	
302321089272500 JOURDAN RIVER AT MI 12.40																										
1974	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	
SUM	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	
302324089240500 JOURDAN RIVER AT MI 6.60																										
1974	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	
SUM	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	
302326089280400 JOURDAN RIVER AT MI 13.56																										
1974	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
SUM	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
302330089242700 JOURDAN RIVER AT MI 7.62																										
1974	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	
SUM	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HANCOCK COUNTY, MISSISSIPPI

YEAR	NO.	SAMPL	D.S.	NESS	HARD- CAT- IONS	SIL- ICA	IRON	NESE	GA- AN-	MAN	MA- JOR	FLU- O-	CAR- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- LOG- IC	TUR- BID- ITY	SUS- SED- I- MENT	NOL
302330089261000	JOURDAN	RIVER	AT	MI	10.18																			
1974	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
SUM	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
302334089232600	ROTTEN	BAYOU	AT	MI	2.68																			
1974	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
SUM	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
302338089254900	JOURDAN	RIVER	AT	MI	9.68																			
1974	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
SUM	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
302338089281800	JOURDAN	RIVER	AT	MI	14.04																			
1974	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
SUM	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
302341089283500	JOURDAN	RIVER	AT	MI	14.62																			
1974	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
SUM	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
302342089241200	JOURDAN	RIVER	AT	MI	7.10																			
1974	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
SUM	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
302344089290100	JOURDAN	RIVER	AT	MI	15.20																			
1974	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
SUM	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
302346089243700	JOURDAN	RIVER	AT	MI	8.14																			
1974	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
SUM	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HANCOCK COUNTY, MISSISSIPPI

YEAR	NO.	SAMPL	D.S.	NESS	MA- JOR	HARD- CAT- IONS	SIL- ICA	IRON	NESE	GA- AN- IONS	FLU- OR- RIDE	NUT- RI- BON	ENT	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT NOL
302349089250500 JOURDAN RIVER AT MI 8.66																							
1974	8	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
SUM	8	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
302353089231100 ROTTEN BAYOU AT MI 3.20																							
1974	7	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
SUM	7	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
302354089252500 JOURDAN RIVER AT MI 9.14																							
1974	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
SUM	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
302400089291600 JOURDAN RIVER AT MI 15.78																							
1974	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
302407089224800 ROTTEN RIVER AT MI 3.72																							
1974	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
302410089292100 JOURDAN RIVER AT MI 16.30																							
1974	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
SUM	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
302416089294200 JOURDAN RIVER AT MI 16.92																							
1974	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
SUM	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
302421089300800 CATAHOULA CREEK AT MI 0.10																							
1974	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
SUM	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0

Appendix A--INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HANCOCK COUNTY, MISSISSIPPI

NO. YEAR SAMPLE	D.S. NESS	MA- JOR CAT- IONS	SIL- ICA	MAN GA- AN- NESE	JOR O- RIDE	FLU- O- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT NOL
302425089222600 ROTTEN BAYOU AT MI 4.26																	
1974	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
SUM	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
302442089211600 ROTTEN BAYOU AT MI 6.50																	
1974	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
SUM	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
302443089214200 ROTTEN BAYOU AT MI 5.92																	
1974	5	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
SUM	5	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
302451089220700 ROTTEN BAYOU AT MI 5.32																	
1974	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
SUM	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
302451089222300 ROTTEN BAYOU AT MI 4.80																	
1974	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
SUM	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
302456089205600 ROTTEN BAYOU AT MI 7.12																	
1974	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
02481675 ST. LOUIS BAY AT HWY 90 AT BAY ST. LOUIS, MS																	
1974	7	1	1	1	1	1	0	4	7	0	4	2	1	0	1	3	0
1975	5	0	2	2	2	2	0	5	5	0	5	5	2	2	5	0	5
1977	17	0	1	1	1	1	0	3	13	4	0	13	1	1	2	3	0
SUM	29	1	4	4	4	4	0	12	25	4	9	20	4	3	4	10	7
302014089190000 ST. LOUIS BAY AT COWAND POINT																	
1977	14	0	0	0	0	0	0	2	10	4	0	10	0	0	2	2	0
SUM	14	0	0	0	0	0	0	2	10	4	0	10	0	0	2	2	0
302057089195300 ST. LOUIS BAY AT CEDAR POINT																	
1977	13	0	0	0	0	0	0	2	9	4	0	9	0	0	2	2	0
SUM	13	0	0	0	0	0	0	2	9	4	0	9	0	0	2	2	0



Appendix A--INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HARRISON COUNTY, MISSISSIPPI--Continued

NO. YEAR	SAMPL D.S.	HARD- NESS	MA- JOR CAT- IONS	SIL- ICA	MAN GA- NESE	JOR AN- IONS	FLU- O- RIDE	NUT- RI- BON	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- LOG- IC	TUR- BID ITY	SUS- SED- I- PHE- MENT NOL
302700885800 TCHOUTACABOUFFA RIVER AT MI 2.00																	
1973	22	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0
1975	10	0	0	0	0	0	0	0	8	2	0	8	0	0	0	2	0
SUM	32	0	0	0	0	0	0	0	30	2	0	8	0	0	0	2	0
LAT= 30 27 00 LONG= 088 58 00																	
302726088554500 TCHOUTACABOUFFA RIVER AT MI 6.00																	
1975	17	0	0	0	0	0	0	0	15	2	0	15	0	0	0	2	0
SUM	17	0	0	0	0	0	0	0	15	2	0	15	0	0	0	2	0
LAT= 30 27 26 LONG= 088 55 45																	
302739088550600 TCHOUTACABOUFFA RIVER AT MI 7.00																	
1975	20	0	0	0	0	0	0	0	18	2	0	18	0	0	0	2	0
SUM	20	0	0	0	0	0	0	0	18	2	0	18	0	0	0	2	0
LAT= 30 27 39 LONG= 088 55 06																	
302741088540200 TCHOUTACABOUFFA RIVER AT MI 9.0																	
1975	14	0	0	0	0	0	0	0	12	2	0	12	0	0	0	2	0
SUM	14	0	0	0	0	0	0	0	12	2	0	12	0	0	0	2	0
LAT= 30 27 41 LONG= 088 54 02																	
302742089004900 BILOXI RIVER AT MI 4.4																	
1973	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
SUM	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
LAT= 30 27 42 LONG= 089 00 49																	
302806088535500 TCHOUTACABOUFFA RIVER AT MI 10.0																	
1975	13	0	0	0	0	0	0	0	11	2	0	11	0	0	0	2	0
SUM	13	0	0	0	0	0	0	0	11	2	0	11	0	0	0	2	0
LAT= 30 28 06 LONG= 088 53 55																	
302854088531300 TCHOUTACABOUFFA RIVER AT MI 12.0																	
1975	7	0	0	0	0	0	0	0	5	2	0	5	0	0	0	2	0
SUM	7	0	0	0	0	0	0	0	5	2	0	5	0	0	0	2	0
LAT= 30 28 54 LONG= 088 53 13																	
302915088531400 TCHOUTACABOUFFA RIVER AT MI 13.1																	
1975	4	0	0	0	0	0	0	0	2	2	0	2	0	0	0	2	0
SUM	4	0	0	0	0	0	0	0	2	2	0	2	0	0	0	2	0
LAT= 30 29 15 LONG= 088 53 14																	

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HARRISON COUNTY, MISSISSIPPI--Continued

NO. YEAR SAMPLE	HARD- D.S. NESS	MA- JOR CAT- IONS	SIL- IRON	MAN GA- NESE	MA- JOR FLU- O- RIDE	NUT- RI- BON	CAR- ENT	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT NOL
302519088551100 BACK BAY OF BILOXI AT MI 4.8																	
1973	21	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0
1977	23	0	0	0	0	0	2	0	19	4	0	19	0	0	2	2	0
SUM	44	0	0	0	0	0	2	0	40	4	0	19	0	0	2	2	0
302528088540000 BACK BAY OF BILOXI AT MI 3.6																	
1973	25	0	0	0	0	0	0	0	25	0	0	1	0	0	0	0	0
1977	22	0	0	0	0	0	2	0	18	4	0	18	0	0	2	2	0
SUM	47	0	0	0	0	0	2	0	43	4	0	19	0	0	2	2	0
302534088584600 BIG LAKE NR BURNT BRIDGE																	
1973	24	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0
1977	27	0	0	0	0	0	2	0	23	4	0	23	0	0	2	2	0
SUM	51	0	0	0	0	0	2	0	47	4	0	23	0	0	2	2	0
302603088593200 BIG LAKE BL TCHOUTACABOUFFA β BILOXI R.																	
1973	50	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0
1977	44	0	0	0	0	0	2	0	40	4	0	40	0	0	2	2	0
SUM	94	0	0	0	0	0	2	0	90	4	0	40	0	0	2	2	0
302604089003200 BILOXI RIVER AT MI 1.4																	
1973	21	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0
SUM	21	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0
302636088584200 TCHOUTACABOUFFA RIVER AT MI 1.00																	
1973	21	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0
1975	11	0	0	0	0	0	0	0	9	2	0	9	0	0	2	0	0
SUM	32	0	0	0	0	0	0	0	30	2	0	9	0	0	2	0	0
302651088570000 TCHOUTACABOUFFA RIVER AT MI 3.50																	
1973	18	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0
1975	12	0	0	0	0	0	0	0	10	2	0	10	0	0	2	0	0
SUM	30	0	0	0	0	0	0	0	28	2	0	10	0	0	2	0	0

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HARRISON COUNTY, MISSISSIPPI--Continued

YEAR	NO. SAMPLE	D.S. NESS	HARD- CAT- IONS	SIL- ICA	MAN GA- IRON	JOR NESE	MA- AN- IONS	FLU- O- RIDE	CAR- BON	RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- MENT	PHE- NOL
302158089152800 WOLF RIVER AT MI 2																					
1976	6	0	0	0	0	0	0	0	0	0	4	2	2	4	0	0	0	2	0	0	0
SUM	6	0	0	0	0	0	0	0	0	0	4	2	2	4	0	0	0	2	0	0	0
302215089144300 WOLF RIVER AT MI 3																					
1976	6	0	0	0	0	0	0	0	0	0	4	2	2	4	0	0	0	2	0	0	0
SUM	6	0	0	0	0	0	0	0	0	0	4	2	2	4	0	0	0	2	0	0	0
302257089133300 WOLF RIVER AT MI 5																					
1976	7	0	0	0	0	0	0	0	0	0	5	2	2	5	0	0	0	2	0	0	0
SUM	7	0	0	0	0	0	0	0	0	0	5	2	2	5	0	0	0	2	0	0	0
302305089124400 WOLF RIVER AT MI 6																					
1976	6	0	0	0	0	0	0	0	0	0	4	2	2	4	0	0	0	2	0	0	0
SUM	6	0	0	0	0	0	0	0	0	0	4	2	2	4	0	0	0	2	0	0	0
202324089122800 WOLF RIVER AT MI 7																					
1976	6	0	0	0	0	0	0	0	0	0	4	2	2	4	0	0	0	2	0	0	0
SUM	6	0	0	0	0	0	0	0	0	0	4	2	2	4	0	0	0	2	0	0	0
302500088560000 BACK BAY OF BILOXI AT MI 5.7																					
1973	19	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0
1977	20	0	0	0	0	0	0	0	2	0	16	4	0	16	0	0	0	2	2	0	0
SUM	39	0	0	0	0	0	0	0	2	0	35	4	0	16	0	0	0	2	2	0	0
302508088573200 BACK BAY OF BILOXI AT MI 7.3																					
1973	32	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0
1977	23	0	0	0	0	0	0	0	2	0	19	4	0	19	0	0	0	2	2	0	0
SUM	55	0	0	0	0	0	0	0	2	0	51	4	0	19	0	0	0	2	2	0	0
302513088564400 BACK BAY OF BILOXI AT MI 6.5																					
1973	29	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0
1977	27	0	0	0	0	0	0	0	2	0	23	4	0	23	0	0	0	2	2	0	0
SUM	56	0	0	0	0	0	0	0	2	0	52	4	0	23	0	0	0	2	2	0	0

Appendix A.--INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HARRISON COUNTY, MISSISSIPPI--Continued

YEAR		NO.	HARD- CAT- SIL- IONS ICA		IRON NESE		GA- AN- IONS		MAN JOR FLU- O- RID		CAR- RI- BON		NUT- RI- ENTS		D.O.		BOD		COD		PH		COL- OR		PES- TI- I- LOG- IC		TUR- BID- ITY		SUS- SED- I- PHE- NOL	
SAMPL	D.S.	NESS	PORTAGE		AT MI		2.16																LONG=		089 14 19					
302104089141900			BAYOU		PORTAGE		AT MI		2.16														LONG=		089 14 19					
1974	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	
SUM	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	
302115089141600			BAYOU		PORTAGE		AT MI		2.44														LONG=		089 14 16					
1974	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	
SUM	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	
302122089140800			BAYOU		PORTAGE		AT MI		2.66														LONG=		089 14 08					
1974	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	
1975	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0	2	0	0	0	
SUM	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	2	0	0	0	0	0	0	2	0	0	0	
302125089135400			BAYOU		PORTAGE		AT MI		3.00														LONG=		089 13 54					
1974	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	
SUM	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	
302130089134700			BAYOU		PORTAGE		AT MI		3.30														LONG=		089 13 47					
1974	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
SUM	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
302133089133600			BAYOU		PORTAGE		AT MI		3.78														LONG=		089 13 36					
1974	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	
SUM	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	
302136089161800			WOLF RIVER		AT MI		1																LONG=		089 16 18					
1976	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	2	6	0	0	0	0	0	2	0	0	0	0	
SUM	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	2	6	0	0	0	0	0	2	0	0	0	0	
302140089132400			BAYOU		PORTAGE		AT MI		3.98														LONG=		089 13 24					
1974	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	
SUM	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HARRISON COUNTY, MISSISSIPPI--Continued

NO. YEAR SAMPLE	HARD- CAT- IONS	SIL- ICA	MA- JOR	MAN GA- AN- NESE	JOR IONS	FLU- O- RIDE	NUT- RI- BON	CAR- BON	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID ITY	SUS- SED- I- PHE- MENT NOL
302015089132700	JOHNSON BAYOU	AT MI	2.96															
1974	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
302015089135900	JOHNSON BAYOU	AT MI	1.80															
1974	8	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
SUM	8	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
302015089140800	JOHNSON BAYOU	AT MI	1.40															
1974	6	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
SUM	6	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
302015089142300	JOHNSON BAYOU	AT MI	0.60															
1974	6	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
SUM	6	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
302021089143200	JOHNSON BAYOU	AT MI	0.26															
1974	6	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
SUM	6	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
302033089152100	BAYOU PORTAGE	AT MI	0.50															
1974	4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
SUM	4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
302045089143400	BAYOU PORTAGE	AT MI	1.58															
1974	5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
SUM	5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
302057089143200	BAYOU PORTAGE	AT MI	1.84															
1974	6	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
SUM	6	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HARRISON COUNTY, MISSISSIPPI--Continued

NO.	YEAR	SAMPL D.S.	NESS	HARD- CAT-	SIL-	IRON	ICA	MA- JOR	MAN	JOR	FLU-	O-	CAR-	RI-	NUT-	BOD	COD	PH	COL- OR	PES- TI-	HERB- I-	BIO- LOG-	TUR- BID	SUS- SED- I-	PHE- MENT	NOL
LAT- 30 29 01 LONG- 089 16 29																										
02481510 WOLF RIVER NR LONDON, MS																										
1964	4	4	4	4	4	0	0	4	4	0	4	4	0	0	4	0	0	4	4	0	0	0	0	0	0	0
1965	15	15	15	15	15	0	0	15	15	0	15	15	0	0	15	0	0	15	15	0	0	0	0	0	0	0
1966	1	1	1	1	1	0	0	1	1	0	1	1	0	0	1	0	0	1	1	0	0	0	0	0	0	0
1978	12	12	12	12	12	4	4	12	12	8	8	12	8	0	12	0	0	12	0	0	0	12	12	12	0	0
1979	12	12	12	12	12	4	4	12	12	8	8	12	8	0	12	0	0	12	0	0	0	11	12	12	0	0
1980 10 10 10 10 4 4 10 10 6 0 4 0 0 0 0 9 0 0 10 0 0 0 10 10 9 0 0																										
1981	6	6	6	6	6	2	2	6	6	4	4	6	4	0	6	0	0	6	0	0	0	5	6	6	0	0
1982	7	5	6	6	6	2	2	6	6	0	0	6	0	0	6	0	0	6	0	0	0	6	6	6	0	0
1983	7	3	4	4	4	4	4	4	4	4	4	4	0	0	4	0	0	4	0	0	0	4	4	4	0	0
1984	2	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	0	0	0	0	1	1	0	0
SUM	76	69	71	71	71	21	21	71	71	26	26	71	26	0	20	50	0	71	20	0	0	48	51	50	0	0
02481524 WOLF RIVER NR CUEVAS, MS																										
LAT- 30 22 32 LONG- 089 13 51																										
1976	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	2	6	0	0	0	2	0	0	0
SUM	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	2	6	0	0	2	0	0	0	0
02481527 WOLF RIVER NR DE LISLE, MS																										
LAT- 30 21 24 LONG- 089 17 11																										
1976	9	1	1	1	1	1	1	1	1	0	1	0	1	0	0	7	2	3	7	1	1	1	2	0	0	1
SUM	9	1	1	1	1	1	1	1	1	0	1	0	1	0	0	7	2	3	7	1	1	1	2	0	0	1
302011089134800 JOHNSON BAYOU AT MI 2.30																										
LAT- 30 20 13 LONG- 089 13 48																										
1974	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
SUM	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
302013089133700 JOHNSON BAYOU AT MI 2.58																										
LAT- 30 20 13 LONG- 089 13 37																										
1974	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
302013089141500 JOHNSON BAYOU AT MI 1.10																										
LAT- 30 20 13 LONG- 089 14 15																										
1974	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0
SUM	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HARRISON COUNTY, MISSISSIPPI--Continued

NO. YEAR	MA- JOR	HARD- CAT- IONS	SIL- ICA	IRON	NESE	GA- AN- IONS	FLU- O- RIDE	CAR- RI- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- MENT	PHE- NOL
02481317	CANAL NO.1	NR	LONG	BEACH,MS																
1975	9	0	0	0	0	0	0	0	0	9	4	0	9	0	0	0	4	0	0	0
SUM	9	0	0	0	0	0	0	0	0	9	4	0	9	0	0	0	4	0	0	0
02481318	CANAL NO.1	NR	CUEVAS,MS																	
1975	9	0	0	0	0	0	0	0	0	9	4	0	9	0	0	0	4	0	0	0
SUM	9	0	0	0	0	0	0	0	0	9	4	0	9	0	0	0	4	0	0	0
02481319	CANAL NO.1	NR	PASS	CHRISTIAN,MS																
1975	9	0	0	0	0	0	0	0	0	9	4	0	9	0	0	0	4	0	0	0
SUM	9	0	0	0	0	0	0	0	0	9	4	0	9	0	0	0	4	0	0	0
02481320	JOHNSON BAYOU	AT	WENGE	AVE.	NR	PASS	CHRISTIAN,MS													
1974	7	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	0	0	0	0
1975	2	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	2	0	0	0
SUM	9	0	0	0	0	0	0	0	0	7	4	0	2	0	0	0	2	0	0	0
02481321	JOHNSON BAYOU	AT	MOUTH	NR	PASS	CHRISTIAN,MS														
1974	8	0	0	0	0	0	0	0	0	6	2	0	0	0	0	0	0	0	0	0
SUM	8	0	0	0	0	0	0	0	0	6	2	0	0	0	0	0	0	0	0	0
02481325	BAYOU PORTAGE	AT	HENDERSON	AVE.	NR	DE	LISLE,MS													
1974	9	0	0	0	0	0	0	0	0	7	2	0	0	0	0	0	0	0	0	0
SUM	-9	0	0	0	0	0	0	0	0	7	2	0	0	0	0	0	0	0	0	0
02481500	WOLF RIVER	LYMAN,MS																		
1964	4	4	4	0	0	0	4	0	4	0	0	0	4	4	0	0	0	0	0	0
1966	1	1	1	0	0	1	1	0	1	0	0	0	1	1	0	0	0	0	0	0
SUM	20	20	20	0	0	20	20	0	20	0	0	0	20	20	0	0	0	0	0	0

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HARRISON COUNTY, MISSISSIPPI--Continued

NO. YEAR SAMPLE	D.S. NESS ICA IRON	MA- JON CAT-SIL-	MAN FOR FLU- GA- AN- O-	NUT- RI- ENTS	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT NOL
02481277 KEEGAN BAYOU AT BILOXI, MS												
1975	6	0	0	0	0	0	0	0	0	0	0	0
SUM	6	0	0	0	0	0	0	0	0	0	0	0
02481278 KEEGAN BAYOU AT HOPKINS AVE. AT BILOXI, MS												
1975	6	0	0	0	0	0	0	0	0	0	0	0
SUM	6	0	0	0	0	0	0	0	0	0	0	0
02481279 BACK BAY OF BILOXI AT D'IBERVILLE, MS												
1973	23	0	0	0	0	0	0	0	0	0	0	0
1977	24	0	0	0	0	0	0	0	0	0	0	0
SUM	47	0	0	0	0	0	0	0	0	0	0	0
02481307 CANAL NO.2 NR LONG BEACH, MS												
1975	9	0	0	0	0	0	0	0	0	0	0	0
SUM	9	0	0	0	0	0	0	0	0	0	0	0
02481309 CANAL NO.3 NR LONG BEACH, MS												
1975	9	0	0	0	0	0	0	0	0	0	0	0
SUM	9	0	0	0	0	0	0	0	0	0	0	0
02481310 BAYOU PORTAGE AT CUEVAS, MS												
1975	2	0	0	0	0	0	0	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	0	0	0	0
02481313 BAYOU PORTAGE AT MI A.20 NR CUEVAS, MS												
1974	7	0	0	0	0	0	0	0	0	0	0	0
SUM	7	0	0	0	0	0	0	0	0	0	0	0
02481316 CANAL NO.1 NR GULFPORT, MS												
1975	9	0	0	0	0	0	0	0	0	0	0	0
SUM	9	0	0	0	0	0	0	0	0	0	0	0



Appendix A.--INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HARRISON COUNTY, MISSISSIPPI--Continued

NO. YEAR SAMPLE D.S.	MA- JON	HARD- CAT- NESS	SIL- ICA	IRON	NE	SE	FLU- O- RIDE	CAR- RI- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	HERB- TI- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT	NOL
02481263	BRICKYARD	BAYOU	NE	OF	GULFPORT, MS														
1974	2	0	0	0	0	0	0	0	0	2	1	0	2	0	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	0	2	1	0	2	0	0	0	0	0	0
02481264	BRICKYARD	BAYOU	NR	MISSISSIPPI	CITY, MS														
1974	2	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0
02481265	BRICKYARD	BAYOU	AT	MISSISSIPPI	CITY, MS														
1974	2	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0
02481266	BAYOU	BERNARD	(OLD	CHANNEL)	AT	HANDSBORO, MS													
1974	7	0	0	0	0	0	0	0	0	7	2	0	2	0	0	0	0	0	0
SUM	7	0	0	0	0	0	0	0	0	7	2	0	2	0	0	0	0	0	0
02481267	BAYOU	BERNARD	(OLD	CHANNEL)	E	OF	HANDSBORO, MS												
1974	10	0	0	0	0	0	0	0	0	10	2	0	2	0	0	0	0	0	0
SUM	10	0	0	0	0	0	0	0	0	10	2	0	2	0	0	0	0	0	0
02481268	BAYOU	BERNARD	(OLD	CHANNEL)	NR	DE	BUYS, MS												
1974	10	0	0	0	0	0	0	0	0	10	2	0	2	0	0	0	0	0	0
SUM	10	0	0	0	0	0	0	0	0	10	2	0	2	0	0	0	0	0	0
02481270	BACK	BAY	OF	BILOXI	NR	BILOXI, MS													
1973	28	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0
1974	4	1	1	1	1	1	0	4	0	4	0	4	3	1	1	1	3	0	1
1975	5	2	2	2	2	2	0	5	0	4*	0	5	5	2	2	2	5	0	2
1977	22	0	0	0	0	0	0	2	0	18	4	0	18	0	0	0	2	0	0
SUM	59	3	3	3	3	3	0	11	0	54	4	9	26	3	3	10	2	9	3
02481276	KEEGAN	BAYOU	AT	BAYVIEW	DR.	AT	BILOXI, MS												
1975	6	0	0	0	0	0	0	0	0	4	2	0	2	0	0	0	2	0	0
SUM	6	0	0	0	0	0	0	0	0	4	2	0	2	0	0	0	2	0	0

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HARRISON COUNTY, MISSISSIPPI--Continued

YEAR	NO.	D.S. SAMPLE	MA-JOR		MAN GA-AN-		MA-JOR		NUT-RI-		BOD	COD	PH	COL-OR	PES-HERB-		TUR-BID-ITY	SUS-SED-IMENT	
			HARD-NESS	CATIONS	SILICA	IRON	NEUTRALIZING	FLUORIDE	CARBONATE	ENTRAPPED					TI-CIDES	BIO-LOGIC		SEDIMENT	PHENOL
		02481254	BAYOU BERNARD SHIP CHANNEL SE OF LONDON,MS																
1974	10	0	0	0	0	0	0	0	0	0	10	2	0	2	0	0	0	0	0
SUM	10	0	0	0	0	0	0	0	0	10	2	0	2	0	0	0	0	0	0
		02481255	BAYOU BERNARD SHIP CHANNEL NE OF GULFPORT,MS																
1974	10	0	0	0	0	0	0	0	0	0	10	2	0	2	0	0	0	0	0
SUM	10	0	0	0	0	0	0	0	0	10	2	0	2	0	0	0	0	0	0
		02481256	BAYOU BERNARD SHIP CHANNEL NE LORAIN,MS																
1974	9	0	0	0	0	0	0	0	0	0	9	1	0	2	0	0	0	0	0
SUM	9	0	0	0	0	0	0	0	0	9	1	0	2	0	0	0	0	0	0
		02481257	BAYOU BERNARD SHIP CHANNEL SE OF LORAIN,MS																
1974	9	0	0	0	0	0	0	0	0	0	9	0	0	2	0	0	0	0	0
SUM	9	0	0	0	0	0	0	0	0	9	0	0	2	0	0	0	0	0	0
		02481258	BAYOU BERNARD (OLD CHANNEL) SE OF LONDON,MS																
1974	7	0	0	0	0	0	0	0	0	0	7	2	0	2	0	0	0	0	0
SUM	7	0	0	0	0	0	0	0	0	7	2	0	2	0	0	0	0	0	0
		02481259	BAYOU BERNARD (OLD CHANNEL) NE OF GULFPORT,MS																
1974	9	0	0	0	0	0	0	0	0	0	8	2	0	1	0	0	0	0	0
SUM	9	0	0	0	0	0	0	0	0	8	2	0	1	0	0	0	0	0	0
		02481260	BAYOU BERNARD (OLD CHANNEL) NE HANDSBORO,MS																
1974	8	0	0	0	0	0	0	0	0	0	8	2	0	2	0	0	0	0	0
SUM	8	0	0	0	0	0	0	0	0	8	2	0	2	0	0	0	0	0	0
		02481262	BRICKYARD BAYOU AT GULFPORT,MS																
1974	2	0	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HARRISON COUNTY, MISSISSIPPI--Continued

YEAR	NO.	MA- JOR HARD- CAT- IONS	SIL- ICA	IRON	NESE	GA- AN- IONS	FLU- O- RIDE	CAR- RI- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT NOL
02481205		FLAT BRANCH TRIB NO.1 AT NUGENT,MS																	
1976	9	0	0	0	0	0	0	0	0	9	5	0	9	0	0	0	5	0	0
SUM	9	0	0	0	0	0	0	0	0	9	5	0	9	0	0	0	5	0	0
02481206		FLAT BRANCH TRIB NO.1 LONDON,MS																	
1976	9	0	0	0	0	0	0	0	0	9	5	0	9	0	0	0	5	0	0
SUM	9	0	0	0	0	0	0	0	0	9	5	0	9	0	0	0	5	0	0
02481207		FLAT BRANCH AT NUGENT,MS																	
1974	2	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0
02481209		BAYOU BERNARD SE OF LONDON,MS																	
1974	3	0	0	0	0	0	0	0	0	3	1	0	1	0	0	0	0	0	0
SUM	3	0	0	0	0	0	0	0	0	3	1	0	1	0	0	0	0	0	0
02481212		BAYOU BERNARD N OF GULFPORT,MS																	
1974	8	0	0	0	0	0	0	0	0	8	2	0	2	0	0	0	0	0	0
SUM	8	0	0	0	0	0	0	0	0	8	2	0	2	0	0	0	0	0	0
02481250		TURKEY CREEK NR GULFPORT,MS																	
1974	2	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0
02481252		TURKEY CREEK AT CREOSOTE RD NR GULFPORT,MS																	
1974	2	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0
SUM	2	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0
02481253		BAYOU BERNARD NE OF GULFPORT,MS																	
1974	11	0	0	0	0	0	0	0	0	11	2	0	2	0	0	0	0	0	0
SUM	11	0	0	0	0	0	0	0	0	11	2	0	2	0	0	0	0	0	0

YEAR	NO. SAMPL	D. S.	MA-JOR				MAN JOR				FLU-O-	CAR-RI-	NUT-ENTS	D. O.	BOD	COD	PH	COL-OR	PES-TI-CIDES	HERB-I-LOG-IC	TUR-BID-ITY	SUS-SED-I-MENT	NOL		
			HARD-CAT-IONS	SIL-ICA	IRON	NESE	GA-AN-IONS	RIDE	BON	RI-ENTS															
	02480611		TCHOUTACABOUFFA RIVER AT MOUTH NR HANDSBORO, MS												LAT= 30 26 06	LONG= 088 59 32									
1975	13	0	0	0	0	0	0	0	0	0	0	0	11	2	0	11	0	0	0	2	0	0	0		
SUM	13	0	0	0	0	0	0	0	0	0	0	11	2	0	11	0	0	0	2	0	0	0			
	02481097		LITTLE BILOXI RIVER NR WORTHAM, MS												LAT= 30 31 44	LONG= 089 12 07									
1962	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	0	0	0	0	0			
SUM	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	0	0	0	0	0			
	02481130		BILOXI RIVER NR LYMAN, MS												LAT=30 29 18	LONG= 089 02 09									
1964	4	4	4	4	0	0	4	0	4	0	4	0	0	0	0	4	4	0	0	0	0	0			
1965	13	13	13	13	0	0	13	13	0	13	0	13	0	0	0	13	13	0	0	0	0	0			
1966	1	1	1	1	0	0	1	1	0	1	0	1	0	0	0	1	1	0	0	0	0	0			
SUM	18	18	18	18	0	0	18	18	0	18	0	18	0	0	0	18	18	0	0	0	0	0			
	02481150		BILOXI RIVER NR LORAIN, MS												LAT= 30 27 10	LONG= 089 00 50									
1973	14	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0			
SUM	14	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0			
	02481151		BILOXI RIVER AT I-10 NR LORAIN, MS												LAT= 30 26 52	LONG= 089 00 34									
1973	22	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0			
SUM	22	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0			
	02481198		BAYOU BERNARD AT LANDON, MS												LAT= 30 26 24	LONG= 089 05 59									
1974	2	0	0	0	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0			
SUM	2	0	0	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0	0			
	02481203		FLAT BRANCH TRIB NR LYMAN, MS												LAT= 30 28 16	LONG= 089 05 11									
1976	9	0	0	0	0	0	0	0	0	0	0	0	9	5	0	9	0	0	0	5	0	0			
SUM	9	0	0	0	0	0	0	0	0	0	0	9	5	0	9	0	0	0	5	0	0	0			
	02481204		FLAT BRANCH NR NUGENT, MS												LAT= 30 26 57	LONG= 089 05 34									
1976	86	0	0	0	0	0	0	0	0	0	0	0	86	12	0	24	0	0	0	12	0	0			
SUM	86	0	0	0	0	0	0	0	0	0	0	86	12	0	24	0	0	0	12	0	0	0			

Appendix A.--INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HARRISON COUNTY, MISSISSIPPI--Continued

YEAR	NO. SAMPLE	D.S. NESS	MA-JOR		HARD-CAT-IONS	SIL-ICA	MAN-GA-AN-IONS		FLU-O-RIDE	CAR-BON	RI-BON	NUT-ENTS	D.O.	BOD	COD	PH	COL-OR	PES-TI-CIDES	HERB-IC	BIO-LOG-IC	TUR-BID-ITY	SUS-PEND-I-MENT	PHE-NOL																			
			JOR	MA-JOR			GA-AN-IONS	FLU-O-RIDE																MAN-GA-AN-IONS	RI-BON	NUT-ENTS																
02480350 TCHOUTACABOUFFA RIVER NR BILOXI, MS																							LAT= 30 33 35		LONG= 088 53 07																	
1964	4	4	4	4	0	4	0	4	4	0	0	4	0	0	0	4	4	0	0	0	0	0	0																			
1965	15	15	15	15	0	15	0	15	15	0	15	15	0	0	0	15	15	0	0	0	0	0	0																			
1966	1	1	1	1	0	1	0	1	1	0	1	1	0	0	0	1	1	0	0	0	0	0	0																			
SUM	20	20	20	20	0	20	0	20	20	0	20	20	0	0	0	20	20	0	0	0	0	0	0																			
02480500 TUXACHANIE CREEK NR BILOXI,MS																							LAT= 30 30 35		LONG= 088 54 40																	
1964	4	4	4	4	0	4	0	4	4	0	4	4	0	0	0	4	4	0	0	0	0	0	0																			
1965	12	12	12	12	0	12	0	12	12	0	12	12	0	0	0	12	12	0	0	0	0	0	0																			
1966	1	1	1	1	0	1	0	1	1	0	1	1	0	0	0	1	1	0	0	0	0	0	0																			
SUM	17	17	17	17	0	17	0	17	17	0	17	17	0	0	0	17	17	0	0	0	0	0	0																			
02480590 TCHOUTACABOUFFA RIVER NR D'IBERVILLE,MS																							LAT= 30 28 33		LONG= 088 53 36																	
1975	9	0	0	0	0	0	0	0	0	0	0	0	7	2	0	7	0	0	0	2	0	0	0																			
SUM	9	0	0	0	0	0	0	0	0	0	0	0	7	2	0	7	0	0	2	0	0	0	0																			
0248595 CYPRESS CREEK NR D'IBERVILLE, MS																							LAT= 30 27 41		LONG= 088 53 30																	
1975	7	0	0	0	0	0	0	0	0	0	0	0	5	2	0	5	0	0	0	2	0	0	0																			
SUM	7	0	0	0	0	0	0	0	0	0	0	0	5	2	0	5	0	0	2	0	0	0	0																			
02480598 CYPRESS CREEK AT MOUTH NEAR D'IBERVILLE,MS																							LAT= 30 27 39		LONG= 088 53 58																	
1975	6	0	0	0	0	0	0	0	0	0	0	0	4	2	0	4	0	0	0	2	0	0	0																			
SUM	6	0	0	0	0	0	0	0	0	0	0	0	4	2	0	4	0	0	2	0	0	0	0																			
02480600 TCHOUTACABOUFFA RIVER NR WOOL MARKET,MS																							LAT= 30 27 34		LONG= 088 54 30																	
1975	12	0	0	0	0	0	0	0	0	0	0	0	10	2	0	10	0	0	0	2	0	0	0																			
SUM	12	0	0	0	0	0	0	0	0	0	0	0	10	2	0	10	0	0	2	0	0	0	0																			
02480605 TCHOUTACABOUFFA RIVER AT CEDAR LAKE,MS																							LAT= 30 27 34		LONG= 088 56 21																	
1973	12	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0																			
1975	10	0	0	0	0	0	0	0	0	0	0	0	8	2	0	8	0	0	0	2	0	0	0																			
SUM	22	0	0	0	0	0	0	0	0	0	0	0	20	2	0	8	0	0	0	2	0	0	0																			

Appendix A.--INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

NO. YEAR SAMPL D.S.	MA- JOR HARD- CAT- SIL- NESS	IRON	ICA	IRON	NESE	GA- AN- IONS	FLU- O- RIDE	CAR- RI- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT	NOL
02479070 BIG CEDAR CREEK NR WADE, MS																			
LAT= 30 42 10										LONG= 088 37 30									
1958	2	2	2	2	0	2	2	0	2	0	0	0	2	2	0	0	0	0	0
1959	2	2	2	2	0	2	2	0	2	0	0	0	2	2	0	0	0	0	0
1960	1	1	1	1	0	1	1	0	1	0	0	0	1	1	0	0	0	0	0
1961	1	1	1	1	0	1	1	0	1	0	0	0	1	1	0	0	0	0	0
1962	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
SUM																			
1964																			
1971	2	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
SUM	11	6	7	7	8	0	2	10	6	0	0	0	6	7	0	0	0	0	0
02479090 BLACK CREEK NORTH NR WADE, MS																			
LAT= 30 41 20										LONG= 088 34 40									
1958	2	2	2	2	0	2	1	0	2	0	0	0	2	2	0	0	0	0	0
1959	2	2	2	2	0	1	2	0	2	0	0	0	2	2	0	0	0	0	0
1960	1	1	1	1	0	1	1	0	1	0	0	0	1	1	0	0	0	0	0
1961	1	1	1	1	0	1	1	0	1	0	0	0	1	1	0	0	0	0	0
SUM	6	6	6	6	0	3	6	5	6	0	0	0	6	6	0	0	0	0	0
02479300 RED CREEK AT VESTRY, MS																			
LAT= 30 44 10										LONG= 088 46 50									
1958	5	5	5	5	2	0	5	0	5	0	0	0	5	5	0	0	0	0	0
1959	2	2	2	2	0	0	2	0	2	0	0	0	2	2	0	0	0	0	0
1960	1	1	1	1	0	1	1	0	1	0	0	0	1	1	0	0	0	0	0
1961	1	1	1	1	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0
1964	2	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
1969																			
1970	3	2	2	2	0	0	2	2	2	1	0	0	3	2	0	0	0	0	0
1971	9	1	1	1	0	0	1	1	1	8	0	0	9	1	0	0	0	0	0
1972	3	0	0	0	0	0	0	0	1	7	0	0	8	1	0	0	0	0	0
1973	2	0	0	0	0	0	0	0	1	3	0	0	3	0	0	0	0	0	0
SUM	37	13	12	13	14	2	1	15	14	21	0	0	34	13	0	0	0	0	0
02479330 PASCAGOULA RIVER AT CUMBEST BLUFF, MS																			
LAT= 30 35 02										LONG= 088 34 15									
1961	1	1	1	1	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0
1962	3	3	3	3	0	1	3	3	3	0	0	0	3	3	0	0	0	0	0
1963	1	1	1	1	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0
1964	2	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
1970	7	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

YEAR	NO.	D.S.	SAMPL	MA-JOR		MAN-GA-AN-		FLU-O-		CAR-RI-		NUT-ENTS	D.O.	BOD	COD	PH	COL-OR	PRES-TI-CIDES		HERB-I-CIDES	BIO-LOG-IC	TUR-BID-ITY	SUS-SED-I-MENT	PHE-NOL
				HARD-CAT-IONS	SIL-ICA	IRON	NESE	IONS	RIDE	BON	ENTS							LONG=	LAT=					
02479330 PASCAGOULA RIVER AT CUMBEST BLUFF, MS--Continued																								
LAT= 30 35 02												LONG= 088 34 15												
1971	4	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	
1972	3	0	0	0	0	0	0	0	0	2	3	0	0	0	3	0	0	0	0	0	0	0	0	
1973	2	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	
SUM	23	5	5	7	0	1	7	5	0	7	16	0	0	21	5	0	0	0	0	0	0	0	0	
02479340 PASCAGOULA RIVER AT MI 17.3 NR COLL TOWN, MS																								
LAT= 30 30 56												LONG= 088 36 10												
1972	5	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	
SUM	5	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	
02479341 PASCAGOULA RIVER AT MI 13 NR COLL TOWN, MS																								
LAT= 30 29 50												LONG= 088 34 04												
1972	22	0	0	0	0	0	0	0	0	0	21	1	0	0	0	0	0	0	0	0	0	0	0	
1978	6	0	0	0	0	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	0	0	0	
1980	6	0	0	0	0	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	0	0	0	
1981	8	0	0	0	0	0	0	0	0	0	8	0	0	0	8	0	0	0	0	0	0	0	0	
1982	8	0	0	0	0	0	0	0	0	0	8	0	0	0	8	0	0	0	0	0	0	0	0	
1983																								
LAT= 30 34 06												LONG= 088 34 06												
SUM	57	0	0	0	0	0	0	0	0	0	55	1	0	34	0	0	0	0	1	0	0	0	0	
02479342 PASCAGOULA RIVER AT MI 12 NR COLL TOWN, MS																								
LAT= 30 29 07												LONG= 088 33 42												
1972	22	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	
1978	15	0	0	0	0	0	0	0	2	0	13	2	0	13	2	0	0	0	2	0	0	0	0	
1980	13	0	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	0	0	0	
1981	15	0	0	0	0	0	0	0	0	0	15	0	0	15	0	0	0	0	0	0	0	0	0	
1982	14	0	0	0	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	0	0	0	0	
1983																								
LAT= 30 29 07												LONG= 088 33 42												
SUM	92	0	0	0	0	0	0	0	2	0	90	2	0	68	2	0	0	0	2	0	0	0	0	
02479343 PASCAGOULA RIVER AT MI 8 NR ESCATAWPA, MS																								
LAT= 30 26 17												LONG= 088 33 28												
1972	23	0	0	0	0	0	0	0	0	0	20	3	0	0	0	0	0	0	0	0	0	0	0	
1974	5	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	
1975	13	0	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	0	0	0	
1976	13	0	0	0	0	0	0	0	0	0	11	2	0	6	0	0	0	0	2	0	0	0	0	
1977	29	0	0	0	0	0	0	0	2	0	25	4	0	25	0	0	0	0	2	2	0	0	0	

Appendix A. ---INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI---Continued

NO. YEAR	SAMPL D.S. NESS	HARD- CAT- IONS	SIL- ICA	IRON	NESE	GA- AN- IONS	FLU- O- RIDE	CAR- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- MENT	PHE- NOL
02479343 PASCAGOULA RIVER AT MI 8 NR ESCATAWPA, MS																				
LAT= 30 26 17										LONG= 088 33 28										
1978	14	0	0	0	0	0	0	0	2	0	12	2	0	12	2	0	0	2	0	0
1979	14	0	0	0	0	0	0	2	0	12	2	0	12	0	0	0	2	0	0	0
1980	14	0	0	0	0	0	0	2	0	12	2	0	12	0	0	0	2	0	0	0
1981	15	0	0	0	0	0	0	2	0	13	2	0	13	0	0	0	2	0	0	0
1982	15	0	0	0	0	0	0	2	0	13	1	0	13	0	0	0	2	0	0	0
1983	12	0	0	0	0	0	0	2	0	10	1	0	10	0	0	0	2	0	0	0
SUM	167	0	0	0	0	0	0	14	0	146	19	0	116	2	0	0	16	2	0	0
02479580 ESCATAWPA RIVER NR HARELSTON, MS																				
LAT=30 43 40										LONG= 088 27 20										
1969	2	1	1	1	1	0	1	1	0	1	1	0	0	2	1	0	0	0	0	0
1970	9	0	0	0	0	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0
1971	6	0	0	0	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	0
1972	4	0	0	0	0	0	0	0	2	4	0	0	4	0	0	0	0	0	0	0
1973	2	0	0	0	0	0	0	0	2	0	2	0	0	2	0	0	0	0	0	0
SUM	23	1	1	1	1	0	1	0	3	22	0	0	23	1	0	0	0	0	0	0
02479600 ESCATAWPA RIVER NR HURLEY, MS																				
LAT= 30 37 45										LONG= 088 26 00										
1958	5	5	5	5	5	0	5	0	5	0	0	0	0	5	5	0	0	0	0	0
1959	2	2	2	2	2	0	2	0	2	0	0	0	0	2	2	0	0	0	0	0
1960	5	5	5	5	5	3	5	0	5	0	0	0	5	5	0	0	0	0	0	0
1961	2	2	2	2	2	1	2	2	2	0	0	0	2	2	0	0	0	0	0	0
1971	2	0	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	0	0
SUM	16	14	14	14	14	4	15	14	14	1	0	0	15	15	0	0	0	0	0	0
02480050 BIG CREEK NR BIG POINT, MS																				
LAT= 30 32 40										LONG= 088 24 45										
1958	4	4	4	4	4	0	4	0	4	0	0	0	0	4	4	0	0	0	0	0
1959	4	4	4	4	4	0	4	0	4	0	0	0	0	4	4	0	0	0	0	0
1960	2	2	2	2	2	2	2	2	2	0	0	0	0	2	2	0	0	0	0	0
1961	2	2	2	2	2	2	2	2	2	0	0	0	0	2	2	0	0	0	0	0
1964	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SUM	13	12	12	13	12	4	13	12	12	0	0	0	0	12	12	0	0	0	0	0



Appendix A.--INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

YEAR	SAMPL	D.S.	NO.	MA-JOR										NUT-RI-ENTS	D.O.	BOD	COD	PH	COL-OR	PES-TI-CIDES		HERB-I-LOG-IC	TUR-BID-ITY	SUS-SED-I-MENT
				HARD-CAT-IONS	NESS	ICA	IRON	NESE	GA-AN-	FLU-O-	CAR-BON	TI-CIDES	IC											
02480100 JACKSON CREEK NR ORANGE GROVE,MS																								
LAT= 30 30 30 LONG= 088 24 55																								
1958	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	5	5	0	0	0	0	0		
1959	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	2	2	0	0	0	0	0		
1960	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0		
1961	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0		
SUM	9	9	9	9	9	9	9	9	9	9	9	9	0	0	0	9	9	0	0	0	0	0		
02480180 ESCATAWPA RIVER AT MI 13 NR ORANGE GROVE,MS																								
LAT= 30 27 52 LONG= 088 26 58																								
1972	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0		
SUM	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0		
02480181 ESCATAWPA RIVER NR ORANGE GROVE,MS																								
LAT= 30 26 12 LONG= 30 27 10																								
1961	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0		
1971	1	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0		
SUM	2	1	2	1	0	0	2	1	0	2	1	0	2	0	0	1	2	0	0	0	0	0		
02480182 ESCATAWPA RIVER AT MI 10 NR MOSS POINT,MS																								
LAT= 30 26 01 LONG= 088 27 45																								
1972	39	0	0	0	0	0	0	0	0	0	0	0	38	1	0	0	0	0	0	1	0	0		
1974	5	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0		
SUM	44	0	0	0	0	0	0	0	0	0	0	0	43	1	0	0	0	0	0	1	0	0		
02480183 ESCATAWPA RIVER AT MI 9 NR MOSS POINT,MS																								
LAT= 30 26 22 LONG= 088 28 18																								
1972	64	0	0	0	0	0	0	0	0	0	0	0	58	6	0	0	0	0	3	0	0	0		
1974	7	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0		
1981	10	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0		
SUM	81	0	0	0	0	0	0	0	0	0	0	0	75	6	0	10	0	0	3	0	0	0		
02480184 ESCATAWPA RIVER AT MI 8 NR MOSS POINT,MS																								
LAT= 30 26 14 LONG= 088 28 48																								
1972	84	0	0	0	0	0	0	0	0	0	0	0	78	6	0	0	0	0	3	0	0	0		
1974	8	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0		
1977	20	0	0	0	0	0	0	0	0	0	2	0	16	4	0	16	0	0	2	2	0	0		
1981	8	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0		
1982	6	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0		
02480185 ESCATAWPA RIVER AT MI 7 NR MOSS POINT,MS																								
LAT= 30 26 01 LONG= 088 27 45																								
1983	16	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	2	0	0	0		
SUM	142	0	0	0	0	0	0	0	0	0	2	0	130	10	0	44	0	0	7	2	0	0		

Appendix A. ---INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI---Continued

NO.	HARD- CAT- IONS	SIL- ICA	IRON	NESE	GA- AN-	MA- JOR	FLU- O-	CAR- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- MENT	PHE- NOL
YEAR	SAMPL	D.S.	NESS	BLACK CREEK SOUTH AT HELENA, MS	02480200	02480200	02480200	02480200	02480200	02480200	02480200	02480200	02480200	02480200	02480200	02480200	02480200	02480200	02480200	02480200
1958	3	3	3	3	2	0	3	2	0	0	0	0	3	3	0	0	0	0	0	0
1959	2	2	2	2	0	1	2	2	0	0	0	0	2	2	0	0	0	0	0	0
1960	1	1	1	1	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0
1961	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0
SUM	7	7	7	7	2	2	7	6	0	0	0	0	7	7	0	0	0	0	0	0
1969	4	0	2	2	0	0	2	0	0	3	1	0	2	2	0	0	0	0	0	0
1970	11	0	6	6	0	0	6	0	0	6	6	0	6	6	0	0	0	0	0	0
1971	18	1	8	8	0	0	9	0	0	12	8	0	9	9	1	1	2	0	0	0
1972	85	0	6	6	0	0	6	0	1	78	12	0	7	5	0	0	5	0	0	0
1973	5	0	2	2	0	0	2	0	2	5	1	0	2	2	0	0	0	0	0	0
1974	17	4	1	1	1	1	1	0	4	17	0	4	4	1	1	1	3	0	4	1
1975	18	5	2	2	2	2	2	0	5	17	0	5	17	2	2	2	5	0	4	2
1976	14	0	0	0	0	0	0	0	0	12	2	0	6	0	0	0	2	0	0	0
1977	26	1	1	1	1	1	1	0	3	21	4	0	22	1	1	1	2	3	0	1
1978	11	1	1	1	1	1	1	1	3	8	2	0	9	3	1	1	2	1	0	1
1979	13	1	1	1	1	1	1	1	2	10	2	0	10	1	1	0	2	0	0	1
1980	20	0	1	1	0	0	1	0	2	18	2	0	18	0	0	0	2	0	0	1
1981	12	0	1	1	0	0	1	0	2	10	2	0	10	0	0	0	2	0	0	1
1982	13	1	1	1	0	0	1	0	2	11	1	0	11	0	0	0	2	1	0	0
1983	12	1	1	1	0	0	1	0	2	10	1	0	10	0	0	0	1	1	0	0
SUM	279	15	34	35	6	6	35	2	28	238	44	9	143	32	7	6	30	6	8	8

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

YEAR	NO.	SAMPL	D.S.	NESS	ICA	IRON	MA- JON	MA- AN- GA- NESE	MA- JON	FLU- O- RIDE	NUT- RI- BON	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID ITY	SUS- SED- I- PHE- MENT NOL
02480208 ESCATAWPA RIVER AT MI 0 NR ESCATAWPA, MS												LAT= 30 25 13 LONG 088 33 28									
1972	61	0	0	0	0	0	0	0	0	0	0	56	5	0	0	0	0	0	4	0	0
1974	12	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
1975	12	0	0	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	0
1976	16	0	0	0	0	0	0	0	0	0	0	14	2	0	7	0	0	0	2	0	0
1977	28	0	0	0	0	0	0	0	0	0	2	24	4	0	24	0	0	0	2	2	0
1978 12 0 0 0 0 0 0 0 0 0 0 10 2 0 0 10 2 0 0 0 0																					
1979	14	0	0	0	0	0	0	0	0	0	2	12	2	0	12	0	0	0	2	0	0
1980	20	0	0	0	0	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	0
1981	13	0	0	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0
1982	13	0	0	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0
1983 12 0 0 0 0 0 0 0 0 0 0 12 0 0 12 0 0 0 0 0 0																					
SUM	213	0	0	0	0	0	0	0	0	0	6	198	15	0	123	2	0	0	12	2	0
02480210 PASCAGOULA RIVER AT HWY 90 AT PASCAGOULA, MS												LAT= 30 22 18 LONG 088 33 46									
1972	24	0	0	0	0	0	0	0	0	0	0	21	3	0	0	0	0	0	1	0	0
1974	12	4	1	1	1	1	1	1	1	0	4	12	0	4	3	1	1	1	3	0	0
1975	16	5	2	2	2	2	2	2	2	0	5	16	0	5	16	2	2	2	4	0	2
1976	10	0	0	0	0	0	0	0	0	0	0	8	2	0	4	0	0	0	2	0	0
1977	27	1	1	1	1	1	1	1	1	0	3	22	4	0	23	1	1	1	2	3	1
1978 14 1 1 1 1 1 1 1 1 1 1 11 2 0 12 3 1 1 2 1 0 0																					
1979	13	1	1	1	1	1	1	1	1	1	2	10	2	0	10	1	1	1	2	0	1
1980	15	0	1	1	0	0	1	0	1	0	2	13	2	0	13	0	0	0	2	0	1
1981	12	0	1	1	0	0	1	0	1	0	2	10	2	0	10	0	0	0	2	0	1
1982	15	1	1	1	0	0	1	0	2	0	13	1	0	13	0	13	0	0	2	1	0
1983	13	1	1	1	0	0	1	0	2	0	11	1	0	11	0	11	0	0	2	1	0
SUM	171	14	10	10	6	6	6	6	10	2	24	147	19	9	115	8	6	6	24	6	8

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

YEAR	NO.	MA- JOR	HARD- CAT- IONS	SIL- ICA	IRON	NESE	MA- MAN GA- AN- IONS	FLU- O- RIDE	NUT- RI- BON	ENTs	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- LOG-	BIO- IC	TUR- BID ITY	SUS- SED- I- PHE- MENT NOL
02480212 PASCAGOULA RIVER AT MI 1 AT PASCAGOULA, MS																				
1972	42	0	0	0	0	0	0	0	0	0	39	3	0	0	0	0	0	0	0	0
1974	16	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
1975	21	0	0	0	0	0	0	0	0	0	21	0	0	21	0	0	0	0	0	0
1976	20	0	0	0	0	0	0	0	0	0	18	2	0	18	0	0	0	2	0	0
1977	42	0	0	0	0	0	0	0	2	0	38	4	0	38	0	0	0	2	2	0
LAT- 30 21 42 LONG- 088 33 57																				
1978	20	0	0	0	0	0	0	0	2	0	18	2	0	18	2	0	0	2	0	0
1979	13	0	0	0	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	0
1980	18	0	0	0	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	0
1981	16	0	0	0	0	0	0	0	0	0	16	0	0	16	0	0	0	0	0	0
1982	20	0	0	0	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	0
LAT- 30 31 00 LONG- 088 36 40																				
1983	17	0	0	0	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	0
SUM	250	0	0	0	0	0	0	0	4	0	239	11	0	184	2	0	0	6	2	0
02480218 WEST PASCAGOULA RIVER AT MI 17 NR COLL TOWN, MS																				
1972	18	0	0	0	0	0	0	0	0	0	15	3	0	0	0	0	0	0	0	0
SUM	18	0	0	0	0	0	0	0	0	0	15	3	0	0	0	0	0	0	0	0
LAT- 30 32 52 LONG- 088 42 56																				
1958	2	2	2	2	0	0	2	2	0	2	0	0	0	2	2	0	0	0	0	0
1959	2	2	2	2	0	0	2	2	0	2	0	0	0	2	2	0	0	0	0	0
1960	1	1	1	1	0	1	1	1	0	1	0	0	0	1	1	0	0	0	0	0
1961	1	1	1	1	0	1	1	1	0	1	0	0	0	1	1	0	0	0	0	0
SUM	6	6	6	6	0	2	6	6	0	6	0	0	0	6	6	0	0	0	0	0
02480250 BLUFF CREEK NR VANCELEAVE, MS																				
1958	2	2	2	2	0	0	2	2	0	2	0	0	0	2	2	0	0	0	0	0
1959	2	2	2	2	0	0	2	2	0	2	0	0	0	2	2	0	0	0	0	0
1960	1	1	1	1	0	1	1	1	0	1	0	0	0	1	1	0	0	0	0	0
1961	1	1	1	1	0	1	1	1	0	1	0	0	0	1	1	0	0	0	0	0
SUM	6	6	6	6	0	2	6	6	0	6	0	0	0	6	6	0	0	0	0	0
02480258 MOUNGER'S CREEK NR VANCELEAVE, MS																				
1958	2	2	2	2	0	0	2	2	0	2	0	0	0	2	2	0	0	0	0	0
1959	2	2	2	2	0	0	2	2	0	2	0	0	0	2	2	0	0	0	0	0
1960	1	1	1	1	0	1	1	1	0	1	0	0	0	1	1	0	0	0	0	0
1961	1	1	1	1	0	1	1	1	0	1	0	0	0	1	1	0	0	0	0	0
SUM	6	6	6	6	0	2	6	6	0	6	0	0	0	6	6	0	0	0	0	0
LAT- 30 38 08 LONG- 088 41 40																				

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

NO.	MA- JOR	MA- MAN	MA- JOR	MA- AN-	MA- O-	MA- FLU-	MA- CAR-	MA- RIDE	MA- BON	MA- ENTS	MA- D.O.	MA- BOD	MA- COD	MA- PH	MA- COL- OR	MA- PES- TI- CIDES	MA- HERB- I- CIDES	MA- BIO- LOG- IC	MA- TUR- BID- ITY	MA- SUS- SED- I- PHE- MENT	MA- NOL
YEAR	SAMPL	D.S.	NESS	IRON	NESE	IONS	RIDE	BON	ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT	NOL	
02480285	WEST	PASCAGOULA	RIVER	AT	HWY	90	AT	GAUTIER,MS			LAT=	30	22	58	LONG=	088	36	32			
1972	17	0	0	0	0	0	0	0	0	16	1	0	0	0	0	0	0	0	0	0	
1974	4	1	1	1	1	1	0	4	0	4	0	4	3	1	1	1	3	0	4	1	
1975	11	2	2	2	2	2	0	5	0	11	0	5	5	2	2	2	4	0	5	2	
SUM	32	3	3	3	3	3	0	9	0	31	1	9	8	3	3	3	7	0	9	3	
02480292	TIDEWATER	BAYOU	AT	OCEAN	SPRINGS,MS					LAT=	30	24	22	LONG	08	49	06				
1975	6	0	0	0	0	0	0	0	0	4	2	0	2	0	0	0	2	0	0	0	
SUM	6	0	0	0	0	0	0	0	0	4	2	0	2	0	0	0	2	0	0	0	
02480293	TIDEWATER	BA	AT	PERSHING	AVE	AT	OCAEN	SPRINGS,MS			LAT=	30	24	19	LONG=	088	49	16			
1975	8	0	0	0	0	0	0	0	0	6	2	0	2	0	0	0	2	0	0	0	
SUM	8	0	0	0	0	0	0	0	0	6	2	0	2	0	0	0	2	0	0	0	
02480294	TIDEWATER	BAYOU	AT	MOUTH	AT	OCEAN	SPRINGS,MS			LAT=	3024	08	LONG=	088	49	26					
1975	8	0	0	0	0	0	0	0	0	6	2	0	2	0	0	0	2	0	0	0	
SUM	8	0	0	0	0	0	0	0	0	6	2	0	2	0	0	0	2	0	0	0	
02480592	CYPRESS	CREEK	NR	BILOXI,MS						LAT=	30	27	51	LONG=	088	52	58				
1975	4	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	2	0	0	0	
SUM	4	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	2	0	0	0	
02481286	ST. MARTIN	BAYOU	NR	D'IBERVILLE,MS						LAT=	30	26	02	LONG=	088	52	40				
1975	6	0	0	0	0	0	0	0	0	4	2	0	2	0	0	0	2	0	0	0	
SUM	6	0	0	0	0	0	0	0	0	4	2	0	2	0	0	0	2	0	0	0	
02481287	ST MARTIN	BAYOU	NE	OF	D'IBERVILLE,MS					LAT=	30	25	53	LONG=	088	52	28				
1975	6	0	0	0	0	0	0	0	0	4	2	0	2	0	0	0	2	0	0	0	
SUM	6	0	0	0	0	0	0	0	0	4	2	0	2	0	0	0	2	0	0	0	
02481288	ST MARTIN	BAYOU	NE	OF	BILOXI,MS					LAT=	30	25	53	LONG=	088	52	22				
1975	6	0	0	0	0	0	0	0	0	4	2	0	2	0	0	0	2	0	0	0	
SUM	6	0	0	0	0	0	0	0	0	4	2	0	2	0	0	0	2	0	0	0	

Appendix A.--INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

YEAR	SAMPL	D.S.	NO.	MA-JOR										NUT-RI-ENTS	D.O.	BOD	COD	PH	COL-OR	PES-TI-CIDES	HERB-I-CIDES	BIO-LOG-IC	TUR-BID-ITY	SUS-SED-I-MENT	NOL
				HARD-CAT-IONS	CAT-IONS	SIL-ICA	MAN-GA-AN-IONS	JOR-AN-IONS	FLU-O-RIDE	CAR-BON	RI-BON														
02480285 WEST PASCAGOULA RIVER AT HWY 90 AT GAUTIER,MS																									
1972	17	0	0	0	0	0	0	0	0	0	0	0	0	16	1	0	0	0	0	0	0	0	0	0	
1974	4	1	1	1	1	1	0	4	0	4	0	4	0	4	0	4	3	1	1	1	3	0	4	1	
1975	11	5	2	2	2	2	0	5	0	5	0	5	0	11	0	5	5	2	2	2	4	0	5	2	
SUM	32	9	3	3	3	3	0	9	0	31	1	9	8	31	1	9	8	3	3	7	0	9	3		
02480292 TIDEWATER BAYOU AT OCEAN SPRINGS,MS																									
1975	6	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	2	0	0	2	0	0	0	0	
SUM	6	0	0	0	0	0	0	0	0	4	2	0	2	4	2	0	2	0	0	2	0	0	0	0	
02480293 TIDEWATER BA AT PERSHING AVE AT OCAEN SPRINGS,MS																									
1975	8	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	2	0	0	2	0	0	0	0	
SUM	8	0	0	0	0	0	0	0	0	6	2	0	2	6	2	0	2	0	0	2	0	0	0	0	
02480294 TIDEWATER BAYOU AT MOUTH AT OCEAN SPRINGS,MS																									
1975	8	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	2	0	0	2	0	0	0	0	
SUM	8	0	0	0	0	0	0	0	0	6	2	0	2	6	2	0	2	0	0	2	0	0	0	0	
02480592 CYPRESS CREEK NR BILOXI,MS																									
1975	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	2	0	0	2	0	0	0	0	
SUM	4	0	0	0	0	0	0	0	0	2	2	0	2	2	0	2	0	0	0	2	0	0	0	0	
02481286 ST. MARTIN BAYOU NR D'IBERVILLE,MS																									
1975	6	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	2	0	0	2	0	0	0	0	
SUM	6	0	0	0	0	0	0	0	0	4	2	0	2	4	2	0	2	0	0	2	0	0	0	0	
02481287 ST MARTIN BAYOU NE OF D'IBERVILLE,MS																									
1975	6	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	2	0	0	2	0	0	0	0	
SUM	6	0	0	0	0	0	0	0	0	4	2	0	2	4	2	0	2	0	0	2	0	0	0	0	
02481288 ST MARTIN BAYOU NE OF BILOXI,MS																									
1975	6	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	2	0	0	2	0	0	0	0	
SUM	6	0	0	0	0	0	0	0	0	4	2	0	2	4	2	0	2	0	0	2	0	0	0	0	

Appendix A.--INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

NO. YEAR	HARD- SAMPL D.S. NESS	MA- JOR CAT- IONS	SIL- ICA	IRON	NESE	MA- JOR GA- AN- IONS	FLU- O- RIDE	CAR- RI- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- MENT	PHE- NOL
302345088343800 PASCAGOULA RIVER AT MI 4																				
LAT= 30 23 45											LONG= 088 34 38									
1972	23	0	0	0	0	0	0	0	0	0	20	3	0	0	0	0	1	0	0	0
1974	10	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
1975	10	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
1976	12	0	0	0	0	0	0	0	0	0	10	2	0	0	0	0	2	0	0	0
1977	24	0	0	0	0	0	0	2	0	0	20	4	0	0	0	0	2	2	0	0
302345088343800 PASCAGOULA RIVER AT MI 4																				
1978	8	0	0	0	0	0	0	0	0	0	6	2	0	0	0	0	2	0	0	0
1979	12	0	0	0	0	0	0	2	0	0	10	2	0	0	0	0	2	0	0	0
1980	11	0	0	0	0	0	0	2	0	0	9	2	0	0	0	0	2	0	0	0
1981	13	0	0	0	0	0	0	2	0	0	11	2	0	0	0	0	2	0	0	0
1982	14	0	0	0	0	0	0	2	0	0	12	1	0	0	0	0	2	0	0	0
1983	12	0	0	0	0	0	0	2	0	0	10	1	0	0	0	0	0	0	0	0
SUM	149	0	0	0	0	0	0	14	0	0	128	19	0	93	2	0	0	15	2	0
302352088363400 WEST PASCAGOULA RIVER AT MI 3																				
LAT= 30 23 52											LONG= 088 36 34									
1972	10	0	0	0	0	0	0	0	0	0	9	1	0	0	0	0	0	0	0	0
SUM	10	0	0	0	0	0	0	0	0	0	9	1	0	0	0	0	0	0	0	0
302430088350400 PASCAGOULA RIVER AT MI 5																				
LAT= 30 24 30											LONG= 088 35 04									
1972	23	0	0	0	0	0	0	0	0	0	20	3	0	0	0	0	0	0	0	0
1974	7	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
1975	9	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
1976	10	0	0	0	0	0	0	0	0	0	8	2	0	0	0	0	2	0	0	0
1977	21	0	0	0	0	0	0	2	0	0	17	4	0	0	0	0	2	2	0	0
302430088350400 PASCAGOULA RIVER AT MI 5																				
1978	10	0	0	0	0	0	0	0	0	0	8	2	0	0	0	0	2	0	0	0
1979	7	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
1980	9	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
1981	7	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
1982	10	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
302430088350400 PASCAGOULA RIVER AT MI 5																				
1983	7	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
SUM	120	0	0	0	0	0	0	4	0	0	109	11	0	78	2	0	0	6	2	0

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

NO. YEAR	MA- JOR	HARD- D.S. NESS	MA- JOR	MAN GA- NESE	MA- JOR	FLU- O- RIDE	CAR- RI- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- MENT	PHE- NOL
302436088370600 WEST PASCAGOULA RIVER AT MI 4										LAT- 36 24 36 LONG- 088 37 06									
1972 28	0	0	0	0	0	0	0	0	27	1	0	0	0	0	0	0	0	0	0
SUM 28	0	0	0	0	0	0	0	0	27	1	0	0	0	0	0	0	0	0	0
302455088313100 ESCATAWPA RIVER AT MI 3										LAT- 30 24 55 LONG- 088 31 31									
1972 41	0	0	0	0	0	0	0	0	36	5	0	0	0	0	0	4	0	0	0
1974 8	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0
1975 10	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	0
1976 10	0	0	0	0	0	0	0	0	8	2	0	4	0	0	0	2	0	0	0
1977 21	0	0	0	0	0	0	2	0	17	4	0	17	0	0	0	2	2	0	0
302436088370600 WEST PASCAGOULA RIVER AT MI 4										LAT- 36 24 36 LONG- 088 37 06									
1978 12	0	0	0	0	0	0	0	0	10	2	0	10	2	0	0	2	0	0	0
1979 10	0	0	0	0	0	0	2	0	8	2	0	8	0	0	0	2	0	0	0
1980 15	0	0	0	0	0	0	2	0	13	2	0	13	0	0	0	2	0	0	0
1981 13	0	0	0	0	0	0	2	0	11	2	0	11	0	0	0	2	0	0	0
1982 15	0	0	0	0	0	0	2	0	13	1	0	13	0	0	0	2	0	0	0
1983 11	0	0	0	0	0	0	2	0	9	1	0	9	0	0	0	0	0	0	0
SUM 166	0	0	0	0	0	0	14	0	143	21	0	95	2	0	0	18	2	0	0
302459088320800 ESCATAWPA RIVER AT MI 2										LAT- 30 24 59 LONG- 088 32 08									
1972 53	0	0	0	0	0	0	0	0	47	6	0	0	0	0	0	5	0	0	0
1974 11	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0
1975 11	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	0
1976 12	0	0	0	0	0	0	0	0	10	2	0	5	0	0	0	2	0	0	0
1977 23	0	0	0	0	0	0	2	0	19	4	0	19	0	0	0	2	2	0	0
302459088320800 ESCATAWPA RIVER AT MI 2										LAT- 30 24 59 LONG- 088 32 08									
1978 12	0	0	0	0	0	0	2	0	10	2	0	10	2	0	0	2	0	0	0
1979 10	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	0
1980 19	0	0	0	0	0	0	0	0	19	0	0	19	0	0	0	0	0	0	0
1981 10	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	0
1982 13	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	0
302459088320800 ESCATAWPA RIVER AT MI 2										LAT- 30 24 59 LONG- 088 32 08									
1983 10	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	0
SUM 184	0	0	0	0	0	0	4	0	170	14	0	107	2	0	0	11	2	0	0



Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

YEAR	NO. SAMPLE	D.S. NESS	HARD- CAT- IONS	MA- JOR ICA	SIL- IRON	MA- JOR GA- AN- NESE	FLU- O- RIDE	CAR- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- MENT	PHE- NOL
302507088342800 PASCAGOULA RIVER AT MI 6																			
LAT= 30 25 07										LONG= 088 34 28									
1972	17	0	0	0	0	0	0	0	0	14	3	0	0	0	0	0	1	0	0
1974	8	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
1975	6	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0
1976	8	0	0	0	0	0	0	0	0	6	2	0	3	0	0	0	2	0	0
1977	16	0	0	0	0	0	0	2	0	12	4	0	12	0	0	0	2	2	0
1978	11	0	0	0	0	0	0	2	0	9	2	0	9	2	0	0	2	0	0
1979	12	0	0	0	0	0	0	2	0	10	2	0	10	0	0	2	0	0	0
1980	12	0	0	0	0	0	0	2	0	10	2	0	10	0	0	2	0	0	0
1981	8	0	0	0	0	0	0	2	0	6	2	0	6	0	0	2	0	0	0
1982	12	0	0	0	0	0	0	2	0	10	1	0	10	0	0	2	0	0	0
1983	10	0	0	0	0	0	0	2	0	8	1	0	8	0	0	0	0	0	0
SUM	120	0	0	0	0	0	0	14	0	99	19	0	74	2	0	0	15	2	0
302511088475700 OLD FORT BAYOU AT MI 4																			
LAT= 30 25 11										LONG= 088 47 57									
1977	4	0	0	0	0	0	0	0	0	3	1	1	3	0	0	0	1	1	0
SUM	4	0	0	0	0	0	0	0	0	3	1	1	3	0	0	0	1	1	0
302512088292200 ESCATAWPA RIVER AT MI 6																			
LAT= 30 25 12										LONG= 088 29 22									
1972	49	0	0	0	0	0	0	0	0	43	6	0	0	0	0	0	2	0	0
1974	9	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
1975	5	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0
1976	11	0	0	0	0	0	0	0	0	9	2	0	4	0	0	0	2	0	0
1977	20	0	0	0	0	0	0	2	0	16	4	0	16	0	0	0	2	2	0
1978	10	0	0	0	0	0	0	2	0	8	2	0	8	2	0	0	2	0	0
1979	8	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0
1980	16	0	0	0	0	0	0	0	0	16	0	0	16	0	0	0	0	0	0
1981	10	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0
1982	10	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0
1983	10	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0
SUM	158	0	0	0	0	0	0	4	0	144	14	0	87	2	0	0	8	2	0

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

NO. YEAR SAMPL	D.S. NESS	MA- JON	HARD- CAT- IONS	SIL- ICA	IRON	NESE	GA- AN- IONS	FLU- O- RIDE	CAR- RI- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT	NOL
302513088502100 OLD FORT BAYOU AT MI 1																					
1977	3	0	0	0	0	0	0	0	0	0	2	1	1	2	0	0	0	1	1	0	0
SUM	3	0	0	0	0	0	0	0	0	0	2	1	1	2	0	0	0	1	1	0	0
302514088365800 WEAST PASCAGOULA RIVER AT MI 5																					
1972	17	0	0	0	0	0	0	0	0	0	15	2	0	0	0	0	0	0	0	0	0
SUM	17	0	0	0	0	0	0	0	0	0	15	2	0	0	0	0	0	0	0	0	0
302515088301300 ESCATAWPA RIVER AT MI 5																					
1972	49	0	0	0	0	0	0	0	0	0	43	6	0	0	0	0	0	5	0	0	0
1974	12	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0
1975	6	0	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0
1976	12	0	0	0	0	0	0	0	0	0	10	2	0	5	0	0	0	2	0	0	0
1977	26	0	0	0	0	0	0	0	2	0	22	4	0	22	0	0	0	2	2	0	0
302516088492500 OLD FORT BAYOU AT MI 2																					
1978	10	0	0	0	0	0	0	0	0	2	8	2	0	8	2	0	0	2	0	0	0
1979	11	0	0	0	0	0	0	0	2	0	9	2	0	9	0	0	0	2	0	0	0
1980	21	0	0	0	0	0	0	0	2	0	19	2	0	19	0	0	0	2	0	0	0
1981	13	0	0	0	0	0	0	0	2	0	11	2	0	11	0	0	0	2	0	0	0
1982	13	0	0	0	0	0	0	0	2	0	11	1	0	11	0	0	0	2	0	0	0
302518088492500 OLD FORT BAYOU AT MI 2																					
1983	14	0	0	0	0	0	0	0	2	0	12	1	0	12	0	0	0	0	0	0	0
SUM	187	0	0	0	0	0	0	0	14	0	163	22	0	103	2	0	0	19	2	0	0
302522088471500 OLD FORT BAYOU AT MI 5																					
1977	5	0	0	0	0	0	0	0	0	0	4	1	1	4	0	0	0	1	1	0	0
SUM	5	0	0	0	0	0	0	0	0	0	4	1	1	4	0	0	0	1	1	0	0
302522088471500 OLD FORT BAYOU AT MI 5																					
1977	5	0	0	0	0	0	0	0	0	0	4	1	1	4	0	0	0	1	1	0	0
SUM	5	0	0	0	0	0	0	0	0	0	4	1	1	4	0	0	0	1	1	0	0

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

NO. YEAR SAMPL	D.S. NESS	MA- JON CAT- IONS	SIL- ICA	MAN GA- AN-	FLU- O- RIDE	BON	CAR- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT	NOL
302526088333600 PASCAGOULA RIVER AT MI 7																		
LAT= 30 25 26										LONG= 088 33 36								
1972	21	0	0	0	0	0	0	18	3	0	0	0	0	0	0	0	0	0
1974	9	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0
1975	10	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	0
1976	10	0	0	0	0	0	0	8	2	0	4	0	0	0	2	0	0	0
1977	20	0	0	0	0	1	0	16	4	0	16	0	0	0	2	2	0	0
1978	10	0	0	0	0	0	0	8	2	0	8	2	0	0	2	0	0	0
1979	8	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0
1980	10	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	0
1981	9	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0	0
1982	9	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0	0
1983	8	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0
SUM	124	0	0	0	0	3	0	113	11	0	82	2	0	0	6	2	0	0
302527088484500 OLD FORT BAYOU AT MI 3																		
LAT= 30 25 27										LONG= 088 48 45								
1977	5	0	0	0	0	0	0	4	1	1	4	0	0	0	1	1	0	0
SUM	5	0	0	0	0	0	0	4	1	1	4	0	0	0	1	1	0	0
302528088304400 ESCATAWPA RIVER AT MI 4																		
LAT= 30 25 28										LONG= 088 30 44								
1972	47	0	0	0	0	0	0	41	6	0	0	0	0	0	5	0	0	0
1974	10	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0
1975	10	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	0
1976	11	0	0	0	0	0	0	9	2	0	5	0	0	0	2	0	0	0
1977	24	0	0	0	0	2	0	20	4	0	20	0	0	0	2	2	0	0
1978	12	0	0	0	0	0	0	10	2	0	10	2	0	0	2	0	0	0
1979	8	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0
1980	18	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	0	0
1981	13	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	0
1982	14	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	0	0
1983	11	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	0
SUM	178	0	0	0	0	4	0	164	14	0	109	2	0	0	11	2	0	0



Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

NO. YEAR SAMPLE	HARD- D.S. NESS	MA- JOR CAT- IONS	SIL- ICA	MAN GA- NESE	FOR IRON	FLU- O- RIDE	NUT- CAR- BON	RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT NOL
302621088441000 OLD FORT BAYOU AT MI 9																		
1977 4	0	0	0	0	0	0	0	0	3	1	1	3	0	0	0	1	1	0
SUM 4	0	0	0	0	0	0	0	0	3	1	1	3	0	0	0	1	1	0
302626088271000 ESCATAWPA RIVER AT MI 11																		
1972 11	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0
SUM 11	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0
302640088371200 WEST PASCAGOULA RIVER AT MI 7																		
1972 16	0	0	0	0	0	0	0	0	14	2	0	0	0	0	0	0	0	0
SUM 16	0	0	0	0	0	0	0	0	14	2	0	0	0	0	0	0	0	0
302648088340600 PASCAGOULA RIVER AT MI 9																		
1972 26	0	0	0	0	0	0	0	0	25	1	0	0	0	0	0	0	0	0
1975 6	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0
1976 10	0	0	0	0	0	0	0	0	8	2	0	4	0	0	0	2	0	0
1977 29	0	0	0	0	0	0	0	2	25	4	0	25	0	0	0	2	0	0
1978 8	0	0	0	0	0	0	0	2	6	2	0	6	2	0	0	2	0	0
302715088270700																		
1979 6	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0
1980 12	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	0
1981 9	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0
1982 14	0	0	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	0
1983 11	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0
SUM 131	0	0	0	0	0	0	4	0	122	9	0	93	2	0	0	6	2	0
302716088372400 WEST PASCAGOULA RIVER AT MI 8																		
1972 4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
SUM 4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
302716088372400 WEST PASCAGOULA RIVER AT MI 8																		
1972 13	0	0	0	0	0	0	0	0	12	1	0	0	0	0	0	0	0	0
SUM 13	0	0	0	0	0	0	0	0	12	1	0	0	0	0	0	0	0	0

Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

NO. YEAR SAMPL	HARD- D.S. NESS	MA- JOR CAT- IONS	MA- JOR CAT- IONS	SIL- ICA	IRON	GA- NESE	MAN IONS	FLU- RIDE	MA- AN- O-	CAR- BON	NUT- RI- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- PHE- MENT NOL
30272508833700 PASCAGOULA RIVER AT MI 10																					
1972	22	0	0	0	0	0	0	0	0	0	0	21	1	0	0	0	0	0	0	0	0
1975	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
1976	10	0	0	0	0	0	0	0	0	0	0	8	2	0	4	0	0	0	2	0	0
1977	23	0	0	0	0	0	0	0	2	0	0	19	4	0	19	0	0	0	2	2	0
1978	10	0	0	0	0	0	0	0	2	0	0	8	2	0	8	2	0	0	2	0	0
1980	8	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
LAT= 30 27 25 LONG= 088 33 37																					
1981	8	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
1982	15	0	0	0	0	0	0	0	0	0	0	15	0	0	15	0	0	0	0	0	0
1983	9	0	0	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0
SUM	111	0	0	0	0	0	0	0	4	0	0	102	9	0	77	2	0	0	6	2	0
LAT= 30 27 32 LONG= 088 43 24																					
302732088432400 OLD FORT BAYOU AT MI 12																					
1977	5	0	0	0	0	0	0	0	0	0	0	4	1	1	4	0	0	0	1	1	0
SUM	5	0	0	0	0	0	0	0	0	0	0	4	1	1	4	0	0	0	1	1	0
LAT= 30 27 36 LONG= 088 36 26																					
302736088362600 WEST PASCAGOULA RIVER AT MI 10																					
1972	22	0	0	0	0	0	0	0	0	0	0	21	1	0	0	0	0	0	0	0	0
SUM	22	0	0	0	0	0	0	0	0	0	0	21	1	0	0	0	0	0	0	0	0
LAT= 30 27 40 LONG= 088 36 46																					
302740088364600 WEST PASCAGOULA RIVER AT MI 9																					
1972	17	0	0	0	0	0	0	0	0	0	0	16	1	0	0	0	0	0	0	0	0
SUM	17	0	0	0	0	0	0	0	0	0	0	16	1	0	0	0	0	0	0	0	0
LAT= 30 28 22 LONG= 088 33 25																					
302822088332500 PASCAGOULA RIVER AT MI 11																					
1972	21	0	0	0	0	0	0	0	0	0	0	20	1	0	0	0	0	0	1	0	0
1977	24	0	0	0	0	0	0	0	2	0	0	20	4	0	20	0	0	0	2	2	0
1978	8	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0
1980	10	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0
1981	9	0	0	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0
LAT= 30 28 22 LONG= 088 33 25																					
1982	11	0	0	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0
1983	8	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0
SUM	91	0	0	0	0	0	0	0	2	0	0	86	5	0	66	0	0	0	3	2	0



Appendix A. --INDEX TO SURFACE WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR JACKSON COUNTY, MISSISSIPPI--Continued

NO.	HARD- CAT- IONS	SIL- ICA	MA- JOR	MAN	GA- AN-	FLU- O-	CAR- RI-	NUT- ENTS	D.O.	BOD	COD	PH	COL- OR	PES- TI- CIDES	HERB- I- CIDES	BIO- LOG- IC	TUR- BID- ITY	SUS- SED- I- MENT	PHE- NOL
YEAR	SAMPL	D.S.	NESS	PASCAGOULA RIVER AT MI 15															
1972	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0
1983	5	0	0	0	0	0	0	0	4	0	0	4	0	0	0	1	0	0	0
SUM	21	0	0	0	0	0	0	0	20	0	0	4	0	0	0	1	0	0	0
303018088351800				PASCAGOULA RIVER AT MI 15															
1972	19	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0
SUM	19	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0
303034088370400				WEST PASCAGOULA RIVER AT MI 16															
1972	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0
1975	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
SUM	15	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0
303044088353000				PASCAGOULA RIVER AT MI 16															
1972	14	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0
SUM	14	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0
303048088355800				PASCAGOULA RIVER AT MI 17															
1972	14	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0
SUM	14	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0



WELL DEPTH (FT)	CON- DUCT- ANCE (UMHOS)	PH (UNITS)	HARD- NESS AS CACO3	COL- OR	CAL- CIUM (CA)	MAG- NESI- UM (MG)	SODIUM (NA)	TAS- SIUM (K)	SUL- FATE (SO4)	CHLO- RIDE (CL)	FLUR- RIDE (F)	ALKAL- LITY- AS CACO3	SILICA (SIO2)	IRON (FE) (UG/L)	DIS- SOLVED SOLIDS
(DISSOLVED CONSTITUENTS AND HARDNESS IN MILLIGRAMS PER LITER, EXCEPT AS INDICATED)															
HANCOCK COUNTY															
CITRONELLE AQUIFER															
MINIMUM	140	366	6.9	4	20	1.0	0.4	83.0	0.9	4.6	14.0	0.40	162	22.0	232
MEDIAN	142	366	7.2	5	25	1.2	0.4	94.5	1.0	6.3	17.0	0.45	183	23.5	264
MAXIMUM	144	366	7.5	6	30	1.5	0.5	106.0	1.1	8.0	20.0	0.50	203	25.0	297
SAMPLES	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2
MIOCENE AQUIFER SYSTEM															
MINIMUM	259	55	5.7	0	1	0.0	0.0	51.0	0.3	0.0	1.6	0.00	95	4.4	135
MEDIAN	874	406	8.6	6	10	2.0	0.1	103.5	0.8	8.7	20.0	0.30	205	20.0	271
MAXIMUM	2500	700	9.1	30	50	12.0	2.0	190.0	3.7	20.0	62.0	0.70	320	33.0	433
SAMPLES	158	115	81	64	50	55	56	50	45	64	158	60	35	53	50
HARRISON COUNTY															
TERRACE DEPOSITS															
MINIMUM	60	190	7.2	67	22	21.0	3.6	11.0	1.7	6.5	7.3	0.10	.	19.0	126
MEDIAN	60	190	7.2	67	22	21.0	3.6	11.0	1.7	6.5	7.3	0.10	.	19.0	126
MAXIMUM	60	190	7.2	67	22	21.0	3.6	11.0	1.7	6.5	7.3	0.10	.	19.0	126
SAMPLES	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
CITRONELLE AQUIFER															
MINIMUM	70	90	6.0	18	5	4.0	1.1	3.9	1.0	0.4	2.6	0.20	.	10.0	66
MEDIAN	84	158	6.7	21	5	4.7	2.2	23.9	1.7	3.7	4.4	0.25	.	34.0	130
MAXIMUM	220	226	7.4	24	5	5.4	3.4	44.0	2.4	7.0	5.3	0.30	.	58.0	194
SAMPLES	3	2	2	2	2	2	2	2	2	2	3	2	0	2	2
MIOCENE AQUIFER SYSTEM															
MINIMUM	66	78	6.5	0	0	0.0	0.0	5.2	0.2	0.0	0.8	0.00	.	2.9	8
MEDIAN	727	280	8.0	4	5	1.0	0.2	65.0	0.8	8.8	5.0	0.20	126	35.0	205
MAXIMUM	2460	2800	9.2	200	80	30.0	30.0	598.0	74.0	29.0	743.0	6.30	537	61.0	1660
SAMPLES	707	479	441	351	287	347	342	325	282	362	692	314	216	337	323

Appendix B. --SUMMARY OF GROUND WATER-QUALITY DATA AVAILABLE TO MAY 1984  
FOR HANCOCK, HARRISON, AND JACKSON COUNTIES, MISSISSIPPI

WELL DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	HARD- NESS AS CACO3	COL- OR	CAL- CIUM (CA)	MAG- NESI- UM (MG)	SODIUM (NA)	TAS- SIUM (K)	SUL- FATE (SO4)	CHLO- RIDE (CL)	FLUR- RIDE (F)	ALKA- LINIT- AS CACO3	SILICA (SIO2)	IRON (FE) (UGIL)	DIS- SOLVED SOLIDS	
(DISSOLVED CONSTITUENTS AND HARDNESS IN MILLIGRAMS PER LITER, EXCEPT AS INDICATED)																
JACKSON COUNTY																
TERRACE DEPOSITS																
MINIMUM	52	24	8.2	4	30	0.5	0.0	208.0	1.4	0.0	4.5	0.40	.	19.0	.	523
MEDIAN	61	61	8.2	11	30	2.1	1.2	208.0	1.4	0.2	7.4	0.40	.	19.0	.	523
MAXIMUM	119	946	8.2	99	30	7.0	9.0	208.0	1.4	1.6	148.0	0.40	.	19.0	.	523
SAMPLES	49	46	1	29	1	27	27	1	1	3	48	1	0	1	0	1
ALLUVIAL AQUIFER																
MINIMUM	35	106	6.8	21	10	2.9	2.0	6430.0	430.0	15.0	4.1	1.10	.	9.3	.	25400
MEDIAN	40	379	6.8	29	10	4.7	4.0	6430.0	430.0	21.0	17.0	1.10	.	9.3	.	25400
MAXIMUM	88	34900	6.8	4500	10	355.0	860.0	6430.0	430.0	2050	12100	1.10	.	9.3	.	25400
SAMPLES	73	7	1	33	1	33	33	1	1	3	73	1	0	1	0	1
TERRACE DEPOSITS																
MINIMUM	15	113	8.5	12	30	0.6	1.9	216.0	16.0	0.0	12.0	0.80	.	16.0	.	683
MEDIAN	80	449	8.5	99	30	15.0	7.9	216.0	16.0	0.0	34.0	0.80	.	16.0	.	683
MAXIMUM	145	1460	8.5	210	30	47.0	29.0	216.0	16.0	0.0	419.0	0.80	.	16.0	.	683
SAMPLES	20	15	1	13	1	13	13	1	1	1	20	1	0	1	0	1
CITRONELLE AQUIFER																
MINIMUM	63	25	4.9	4	0	0.2	0.1	3.2	0.3	0.0	4.5	0.00	4	6.0	10.0	33
MEDIAN	180	563	7.3	60	17	13.0	7.1	75.0	5.1	1.3	106.0	0.20	110	11.5	770.0	337
MAXIMUM	342	1810	8.5	190	50	29.0	30.0	284.0	15.0	318.0	640.0	1.10	340	40.0	3900	1040
SAMPLES	144	56	34	69	24	69	70	24	24	26	144	24	13	24	9	24
MIOCENE AQUIFER SYSTEM																
MINIMUM	40	1	5.0	0	0	0.0	0.0	1.9	0.0	0.0	0.0	0.00	12	0.1	10.0	15
MEDIAN	351	943	8.3	12	30	3.2	0.9	196.0	1.9	2.0	146.0	0.60	253	17.0	45.0	513
MAXIMUM	1807	5510	9.2	840	110	179.0	96.0	1100.0	35.0	340.0	1560.0	2.70	444	52.0	8800	3140
SAMPLES	884	400	298	287	146	279	277	169	149	190	883	163	70	163	28	160