

REFERENCE

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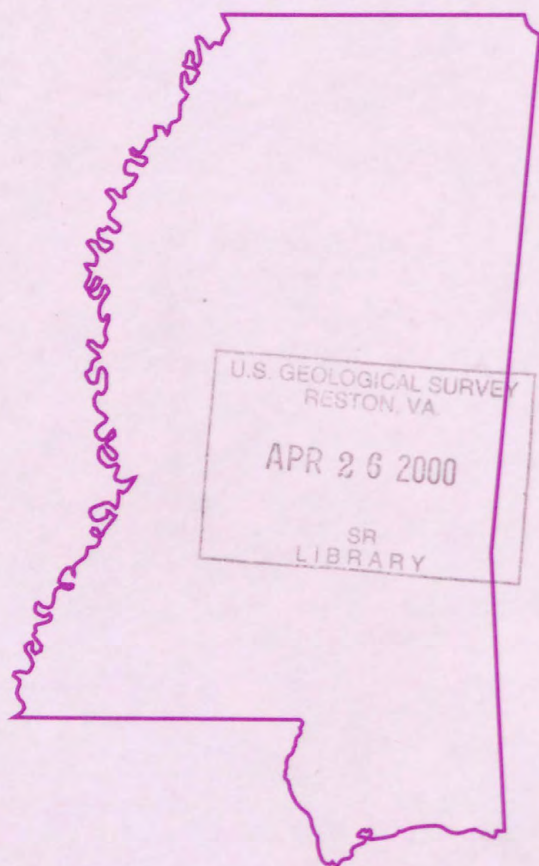
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Mississippi

1999

Water Resources Data Mississippi Water Year 1999

Water-Data Report MS-99-1



U.S. Department of the Interior
U.S. Geological Survey



Prepared in cooperation with the
Mississippi Department of Environmental
Quality and with other State, county,
municipal, and Federal agencies

CALENDAR FOR WATER YEAR 1999

1998

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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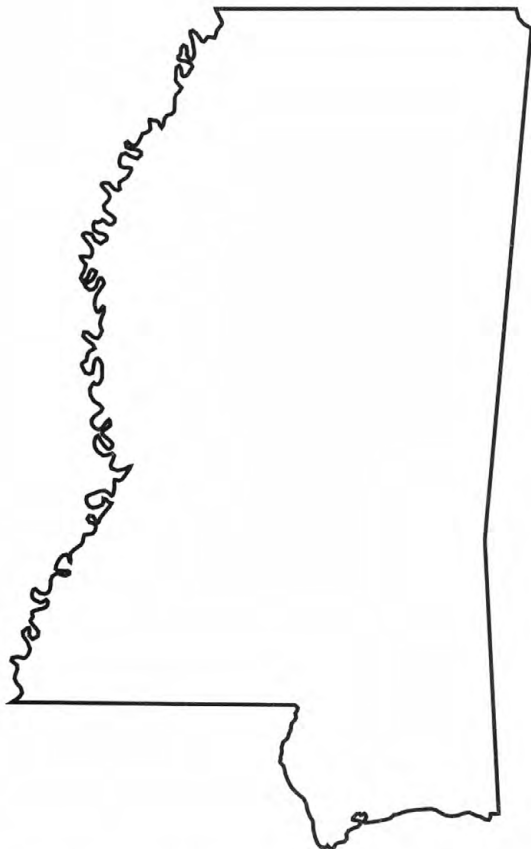
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31																				
APRIL							MAY							JUNE						
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S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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Water Resources Data Mississippi Water Year 1999

By M.L. Plunkett, F. Morris III, W.T. Oakley, and D.P. Turnipseed

Water-Data Report MS-99-1



Prepared in cooperation with the Mississippi Department of Environmental Quality
and with other State, county, municipal, and Federal agencies



U.S. DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY

Charles G. Groat, Director

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the water program in Mississippi
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U.S. Geological Survey
308 South Airport Road
Pearl, Mississippi 39208-6649

2000

PREFACE

This volume of the annual hydrologic data report of Mississippi is one of a series of annual reports that documents hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines. The following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Mississippi and with other agencies under the general supervision of Leonard R. Frost, Jr., District Chief, Mississippi.

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE March 2000		3. REPORT TYPE AND DATES COVERED Annual--Oct. 1, 1998 to Sept. 30, 1999
4. TITLE AND SUBTITLE Water Resources Data, Mississippi, Water Year 1999			5. FUNDING NUMBERS	
6. AUTHOR(S) M.L. Plunkett, F. Morris III, W.T. Oakley, D.P. Turnipseed				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Geological Survey, Water Resources Division 308 South Airport Road Pearl, Mississippi 39208-6649			8. PERFORMING ORGANIZATION REPORT NUMBER USGS-WDR-MS-99-1	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) U.S. Geological Survey, Water Resources Division 308 South Airport Road Pearl, Mississippi 39208-6649			10. SPONSORING / MONITORING AGENCY REPORT NUMBER USGS-WDR-MS-99-1	
11. SUPPLEMENTARY NOTES Prepared in cooperation with the State of Mississippi and with other agencies.				
12a. DISTRIBUTION / AVAILABILITY STATEMENT No restrictions on distribution. This report may be purchased from: National Technical Information Service, Springfield, VA 22161			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) Water resources data for the 1999 water year for Mississippi consist of records of surface water and ground water in the State. Specifically, it contains: (1) Discharge records for 97 streamflow-gaging stations, stage records for 19 of these gaging stations, discharge records for 79 partial-record or miscellaneous streamflow stations, including 7 flood hydrograph partial-record stations, 70 crest-stage partial-record stations, and 2 special study and miscellaneous sites; (2) stage only at 2 gaging stations; (3) water-quality records for 18 streamflow-gaging stations, 4 partial-record or miscellaneous sites, 11 short-term study sites, and 39 wells; and (4) water-level records for 18 observation wells. Records obtained from water-resources investigations are also included in special sections of the report. These data represent that part of the National Water Data System operated by the U.S. Geological Survey, and cooperating local, State, and Federal agencies in Mississippi.				
14. SUBJECT TERMS *Mississippi, *Hydrologic data, *Surface water, *Ground water, Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water analyses, Water levels.			15. NUMBER OF PAGES 252	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT	

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vi SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

[Letter after station name designates type of data: (d) discharge, (g) gage height, (c) chemical, (m) microbiological, (t) water temperature, (s) sediment, (r) radiochemical, (p) pesticide, (f) field values; temperature, pH, dissolved-oxygen, specific conductance]

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GROUND-WATER RECORDS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

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DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gage stations) in the Mississippi District have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as crest-stage or flood hydrograph partial-record stations. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only)]

Discontinued surface-water discharge or stage-only stations

Station name	Station number	Drainage area (mi ²)	Period of record
MOBILE RIVER BASIN			
Little Brown Cr near New Site, MS (d)	02429949	42.2	1973-89
Mackeys Cr near Dennis, MS (d)	02430000	66.9	1938-80
Mackeys Cr Bl Bay Springs Lock and Dam, MS (d)	02430012	68.2	1980-83
Rock Cr near Belmont, MS (d)	02430038	9.0	1975-80
Tombigbee R at Beans Ferry near Fulton, MS (d)	02431500	706.0	1937-47
Bull Mountain Cr near Smithville, MS (d)	02433000	336.0	1941-84
			1986-87
Burkett Cr at Amory, MS (d)	02433530	6.6	1964-67
Town Cr at Tupelo, MS (d)	02434000*	111.0	1944-46
			1952-71
Tishomingo Cr near Saltillo, MS (d)	02434250	30.1	1949-63
Euclautubba Cr at Saltillo, MS (d)	02434500	19.1	1952-67
Town Cr near Verona, MS (d)	02435500	271.0	1944-47
Chiwapa Cr at Shannon, MS (d)	02436000*	145.0	1952-67
Tombigbee R near Amory, MS (d)	02437000*	928.0	1938-85
Tombigbee R at Aberdeen, MS (d)	02437500	2171.0	1928-58
			1972-82
James Cr at Aberdeen, MS (d)	02437600*	28.4	1964-68
Buttahatchee R near Caledonia, MS (d)	02439500	831.0	1928-32
Chuquatonchee Cr near Okalona, MS (d)	02439980*	66.7	1963-68
Chuquatonchee Cr near Egypt, MS (d)	02440000*	167.0	1952-73
Houlka Cr near McCondy, MS (d)	02440400*	189.0	1963-68
Tibbee Cr near Tibbee, MS (d)	02441000*	926.0	1929-30
			1940-88
Catalpa Cr at Mayhew, MS (d)	02441300*	98.0	1963-68
Luxapallila Cr at Steens, MS (d)	02443000*	309.0	1944-47
Cedar Cr near Trinity, MS (d)	02443710	11.5	1980-82
Noxubee R near Brooksville, MS (d)	02447500	446.0	1940-42
PASCAGOULA RIVER BASIN			
Oakohay Cr at Mize, MS (d)	02471500*	185.0	1944-49
Tallahattah Cr near Waldrup, MS (d)	02473480*	30.4	1965-70
Tallahoma Cr near Laurel, MS (d)	02474000	139.0	1941-48
Leaf R at Beaumont, MS (e)	02474740	3010.0	1972-76
Okatibbee Cr near Meridian, MS (d)	02476000	236.0	1939-74
Chickasawhay R at Shubuta, MS (e)	02477350	1458.0	1972-97
Chickasawhay R near Waynesboro, MS (d,e)	02477500	1650.0	1939-97
Buckatunna Cr at Denham, MS (d)	02478000	506.0	1939-49
Flint Cr near Wiggins, MS (d)	02479200	24.9	1957-68
Bluff Cr near Vancleave, MS (d)	02480250	52.0	1974-79
TCHOUTACABOUFFA RIVER BASIN			
Tuxachanie Cr near Biloxi, MS (d)	02480500*	92.4	1953-71
WOLF RIVER BASIN			
Wolf River near Lyman, MS (d)	02481500	253.0	1945-48
JOURDAN RIVER BASIN			
Catahoula Cr near Santa Rosa, MS (d)	02481570	155.0	1962-66
PEARL RIVER BASIN			
Lobutchka Cr near Carthage, MS (d)	02482500	309.0	1937-60
Pearl R at Meeks Bridge near Canton, MS (d)	02485000	2755.0	1939-63
Pelahatchie Cr near Fannin, MS (d)	02485500	206.0	1951-60
Copiah Cr near Hazelhurst, MS (d)	02487900*	47.4	1965-68
Bahala Cr near Oma, MS (d)	02488100	150.0	1966-68
Holiday Cr at Goss, MS (d)	02488850	75.8	1965-68
Pearl R near Columbia, MS (d)	02489000*	5720.0	1928-54
Lower Little Cr near Baxterville, MS (d)	02489240	81.5	1961-70

Discontinued surface-water discharge or stage-only stations

Station name	Station number	Drainage area (mi ²)	Period of record
TENNESSEE RIVER BASIN			
Yellow Cr near Doskie, MS (d)	03592800	143.0	1938-59 1973-78
Tennessee-Tombigbee Waterway at Cross Roads (e)	03592824	indeterminate	1981-95
HATCHIE RIVER BASIN			
Hatchie R near Walnut, MS (d)	07029270	274.0	1948-73
TUCSCUMBIA RIVER BASIN			
Tuscumbia R Canal near Corinth, MS (d)	07029300	277.0	1950-59
YAZOO RIVER BASIN			
Cane Cr near New Albany, MS (d)	07266000	22.2	1939-41
Cypress Cr near Etta, MS (d)	07268500*	28.5	1939-42
North Tippah Cr near Ripley, MS (d)	07269000*	20.0	1939-42
Clear Cr near Oxford, MS (d)	07271000	10.3	1939-41 1950-74
Little Tallahatchie R at Sardis, MS (d)	07272500	1545.0	1940-80
Tallahatchie R near Sardis, MS (d)	07273000	1595.0	1932-42
Little Tallahatchie R at Batesville, MS (d)	07273500	1750.0	1907-13
Yocona R at Enid Dam, MS (d)	07275000	560.0	1928-80
Coldwater R near Lewisburg, MS (d)	07276000	218.0	1940-53
Pigeonroost Cr near Lewisburg, (d)	07277000	228.0	1940-53
Coldwater R near Coldwater, MS (d)	07277550	617.0	1928-42
Coldwater R at Arkabutla Dam, MS (d)	07278500	1000.0	1937-80
Coldwater R at Savage, MS (d)	07279500	1225.0	1909-12 1936-42
Tallahatchie R near Lambert, MS (d)	07280000	1980.0	1936-80
Tillatoba Cr Bl Oakland, MS (d)	07280270	37.1	1974-84
South Fork Tillatoba Cr near Charleston, MS (d)	07280340	53.9	1975-87
North Fork Tillatoba Cr near Teasdale, MS (d)	07280460	30.8	1984-89
Tallahatchie R at Swan Lake, MS (d)	07281000	5130.0	1939-80
Yalobusha R at Graysport, MS (d)	07282500	607.0	1940-49
Skuna R near Coffeetown, MS (d)	07283500	435.0	1940-49
Yalobusha R at Grenada Dam near Grenada, MS (d)	07285000	1320.0	1961-80
Batupan Bogue at Grenada, MS (d)	07285400	240.0	1985-97
Askalmore Cr at Retention Dam near Cascilla, MS (d)	07285900	10.5	1967-74
Thompson Cr at McCarley, MS (d)	07286500	14.4	1957-64
Yazoo R at Greenwood, MS (d)	07287000	7450.0	1908-13 1928-80
Big Sunflower R at Clarksdale, MS (d)	07288000	108.0	1937-42
Big Sunflower R at Sunflower, MS (d)	07288500	767.0	1936-80
MISSISSIPPI RIVER BASIN			
Big Black R at Pickens, MS (d)	07289500	1493.0	1936-71
Bayou Pierre near Carpenter, MS (d)	07290500	371.0	1945-51
Mississippi R at Natchez, MS (d)	07290880	1145400.0	1949-78
Homochitto R near Bude, MS (d)	07291500	399.0	1942-50
Homochitto R near Kingston, MS (d)	07293500	1000.0	1945-49
Homochitto R near Doloroso, MS (d)	07294500	1120.0	1940-51

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following continuous-record surface-water-quality stations in Mississippi have been discontinued. Daily records of specific conductance, pH, water temperature, turbidity, dissolved oxygen, or sediment were collected and published for the period of record shown for each station. Those stations with an asterisk (*) after the station number are currently operated as continuing-record, partial-record, or miscellaneous stations. Discontinued short-term project stations have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

Letters used for type of record designate type of data collected: (k) specific conductance, (h) pH, (t) water temperature, (n) turbidity, (o) dissolved oxygen, (s) sediment.

Discontinued continuous-record surface-water-quality stations

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
MOBILE RIVER BASIN				
Mackeys Creek near Dennis, MS	02430000	66.9	k,h,t,o n	1973-80 1975-80
Mackeys Creek below Bay Springs Lock & Dam, MS	02430012	68.2	s k h,t n,o	1978-80 1980, 82-83 1980-83 1980-82
Mackeys Creek near Moores Mill, MS	02430100	118	s k,h,t,o	1980, 82 1983-84
PASCAGOULA RIVER BASIN				
Okatoma Creek at Saratoga, MS	02472580	88.2	k	1970-71
Leaf River near Palmer, MS	02473260	1,809	k t	1971-75 1971-72
Chickasawhay River at Enterprise, MS	02477000	918	k	1971-73
Pascagoula River at Merrill, MS	02479000	6,590	k t	1970-75 1970-72
Pascagoula River near Benndale, MS	02479020	6,680	k t	1976-81 1958-60, 76-81
Red Creek near Carnes, MS	024791834	99.5	k,t	1985-86
WOLF RIVER BASIN				
Wolf River near Landon, MS	02481510	308	k,t	1978-81
PEARL RIVER BASIN				
Pearl River at Jackson, MS	02486000	3,171	t	1963-64
Pearl River near Monticello, MS	02488500	4,993	k,t	1966-69
Bogue Chitto near Tylertown, MS	02490500	492	k	1968-69
TENNESSEE RIVER BASIN				
Yellow Creek near Doskie, MS	03592800	143	k,h,t,o n	1973-78 1976-78
Tenn-Tom Waterway at Cross Roads, MS	03592824	-	k,h,t,n,o	1980-85
Yellow Creek at Cross Roads, MS	03592825	165	s k,h,t,n,o,s	1981-85 1978-79
YAZOO RIVER BASIN				
Hotopha Creek near Batesville, MS	07273100	35.1	k,t h s	1986-87 1987 1986-97
Otocalofa Creek Canal near Water Valley, MS	07274252	97.1	k,t,o h s	1985-87 1986-87 1985-97
Peters (Long) Creek near Pope, MS	07275530	79.2	k,h,t s	1987 1987-97
Hickahala Creek near Senatobia, MS	07277700 *	121	k,h,t,o	1986-90
Senatobia Creek near Senatobia, MS	07277730	82.0	k,h,t,o s	1986-88 1986-90
Coldwater River (Pompey Ditch) near Sledge, MS	07279800	1,404	k,t	1981-82
North Fork Tillatoba Creek near Teasdale, MS	07280460	30.8	s	1984-89
Yalobusha River at Calhoun City, MS	07281999	194	s	1997-98
Topashaw Creek Canal near Calhoun City, MS	07282100	101	s	1997-98
Skuna River at Bruce, MS	07283000	254	t	1996-98
Batupan Bogue at Grenada, MS	07285400	240	k,h,t,o s	1985-87 1985-97
Yazoo River near Shell Bluff, MS	07287120	7,650	k,t	1976-81
Fannegusha Creek near Howard, MS	07287355 *	107	s	1987-89
Bogue Phalia near Leland, MS	07288650 *	484	k,t	1996-98
Harland Creek near Howard, MS	07287404 *	62.1	k,h,t,o	1987
Yazoo River at Redwood, MS	07288800	12,603	k,t	1978-81
Yazoo River below Steele Bayou near Long Lake, MS	07288955 *	13,355	k,t	1996-98
MISSISSIPPI RIVER MAIN STEM				
Mississippi River at Vicksburg, MS	07289000 *	1,140,500	k t	1975-93 1974-93
BIG BLACK RIVER BASIN				
Big Black River near Bovina, MS	07290000	2,812	k,t	1975-81
HOMOCHITTO RIVER BASIN				
Homochitto River at Rosetta, MS	07292500	787	k,t	1975-81

INTRODUCTION

The Water Resources Division for the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Mississippi each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Mississippi."

This report includes records of surface water and ground water in the State. Specifically, it contains: (1) Discharge records for 97 streamflow-gaging stations, stage records for 19 of these gaging stations, discharge records for 79 partial-record or miscellaneous streamflow stations, including 7 flood hydrograph partial-record stations, 70 crest-stage partial-record stations and 2 special study and miscellaneous sites, (2) stage only at 2 gaging stations, (3) water-quality records for 18 streamflow-gaging stations, 4 partial-record or miscellaneous sites, 11 short-term study sites, and 39 wells, and (4) water-level records for 18 observation wells. Records obtained from water-resources investigations are also included in special sections of the report. Records included for stream stages are only a small fraction of those obtained during the water year.

This series of annual reports for Mississippi began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Mississippi were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Parts 2B, 3B and 7". For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from Distribution Branch, Text Products Section, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report MS-99-1." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The U.S. Geological Survey and agencies of the State of Mississippi have had cooperative agreements for the systematic collection of streamflow records since 1931, for ground-water levels since 1939, for water-quality records since 1964, and for atmospheric precipitation-quality since 1982. In addition, data for water-resources investigations have been collected. Organizations that assisted in the collection of data through cooperation with the Survey are:

Mississippi Department of Environmental Quality, Charles H. Chisolm, Executive Director.
Office of Land and Water Resources, Charles T. Branch, Director.
Office of Pollution Control, Phil Bass, Director.
Mississippi Department of Transportation, Kenneth Warren, Chief Engineer.
Pat Harrison Waterway District, Baxter F. Wade, Jr., Executive Director.
Pearl River Basin Development District, Mike Davis, Executive Vice President.
Pearl River Valley Water Supply District, Kenneth Griffin, General Manager.
Harrison County Board of Supervisors, Larry Benefield, President.
Harrison County Development Commission, Michael J. Olivier, Executive Director.
Jackson County Port Authority, Melody Bradley, Port Director.
City of Jackson, Harvey Johnson, Jr., Mayor.

Assistance with funds or services was provided by the U. S. Army Corps of Engineers in collecting records for 49 streamflow-gaging stations, 1 stage-only gaging station, 4 crest-stage gages, and 16 surface-water quality sites published in this report.

Organizations that provided data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow

Annual mean streamflow was normal in most streams in Mississippi during the 1999 water year. Comparisons of monthly mean and annual mean discharges in the 1999 water year with median values for the period 1961-90 were made for three representative gaging stations: Tombigbee River at Stennis Lock and Dam near Columbus, in northeastern Mississippi, Big Black River near Bovina, in central Mississippi, and Pascagoula River at Merrill, in southeastern Mississippi. The monthly mean discharges at these three sites were below the normal range (± 25 percent of the median or the reference period 1961-90) during the months of August and September. The monthly mean discharges at the Pascagoula River were below normal for 7 months of the year. The following three paragraphs discuss flow for the water year for three representative gaging stations in Mississippi.

Runoff of the Tombigbee River at Stennis Lock and Dam near Columbus was 23.03 inches for the water year, or 109 percent of the median annual runoff of 21.10 inches for the reference period 1961-90. Discharge was above normal in December, January, June, and July, when the monthly mean discharges were 201, 219, 230, and 251 of the percent of the median monthly discharges for the reference period, respectively. Discharge was below normal in August and September when the monthly mean discharge for both months was 55 percent of the median monthly discharges for the reference period. Monthly mean discharges for other months were within the normal range.

Runoff of the Pascagoula River at Merrill was 13.79 inches for the water year, or 67 percent of the median annual runoff for the reference period (20.64 inches). Discharge was above normal in October, when the monthly mean discharge was 240 percent of the monthly median discharge for the reference period. Discharge was below normal for 7 months of 1999 water year. The following table shows mean discharges, percents of the median discharges for the reference period, and median discharges for the reference period for the below-normal months.

Date	Mean discharge (ft ³ /s)	Percent of median discharge	Median discharge 1961-90 (ft ³ /s)
Dec. 1998	2853	29	9798
Jan. 1999	7568	52	14610
Apr. 1999	5686	38	14949
May 1999	2451	26	9601
Jul. 1999	2572	85	3025
Aug. 1999	1488	41	3626
Sep. 1999	1144	50	2283

Monthly mean discharges for other months were within the normal range.

Runoff of the Big Black River near Bovina was 19.46 inches for the water year, or 110 percent of the median annual runoff for the reference period (17.67 inches). Discharge was above normal in February when the monthly mean discharge was 225 percent of the monthly median discharge for the reference period. Discharge was below normal in the months of October, August, and September, when the monthly mean discharges were 57, 68, and 63 percent of the monthly median discharges, respectively, for the reference period. Monthly mean discharges for other months were within the normal range.

Streamflow Quality

The surface-water quality of most of Mississippi's 84,000 miles of rivers fully or partially supports designated uses. The major cause of impaired water quality is nonpoint agricultural runoff; lesser causes are industrial and municipal point-source discharges and runoff from nonagricultural nonpoint sources.

Dissolved-solids concentrations are low, generally less than 100 mg/L (milligrams per liter), in water from most streams in Mississippi. Dissolved-oxygen concentrations are generally greater than 5.0 mg/L and are lowest during the summer months when stream temperatures are high and streamflow velocities are low. Determinations of pH indicate that most streams are neutral to slightly acidic at most times. The minimum, median, and maximum values of dissolved-solids concentrations, dissolved-oxygen concentrations, and values of pH during water year 1999 for the National Water-Quality Assessment integrator station, 07288955 Yazoo River below Steele Bayou near Long Lake, Mississippi, 8.2 miles above its confluence with the Mississippi River, are presented in the following table:

Yazoo River below Steele Bayou near Long Lake, MS

Water year 1999

	<u>Minimum</u>	<u>Median</u>	<u>Maximum</u>
Dissolved-solids concentration, in milligrams per liter	53	75	137
Dissolved-oxygen concentration, in milligrams per liter	4.2	6.7	11.3
pH, in standard units	6.7	7.1	7.7

Ground-Water Levels

Ground-water levels in most artesian aquifers statewide continued long-term declines in the latter part of the 1999 water year following seasonal water-level recoveries during the early part of the year. Fluctuations of ground-water levels in representative observation wells are shown in the hydrographs in figure 1.

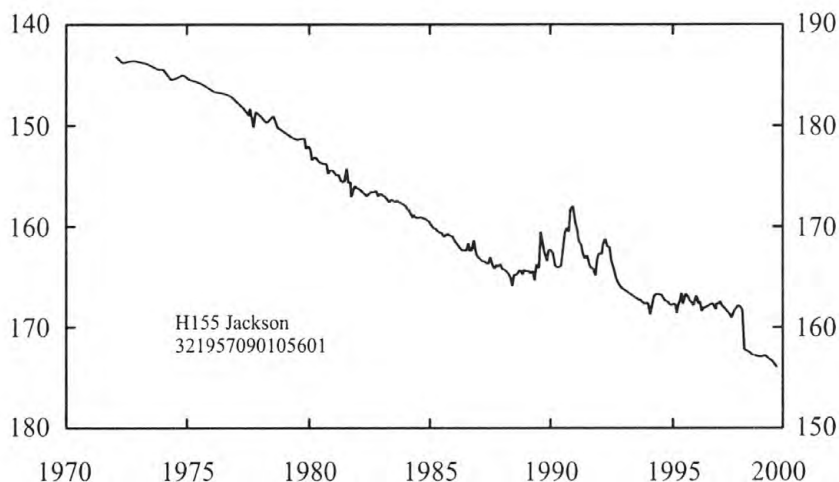


Figure 1.--Hydrograph of well in the Cockfield aquifer in the Jackson metropolitan area.

Ground-water withdrawals are concentrated in the urbanized and industrialized areas and in the Mississippi River Alluvial Plain of northwestern Mississippi. These withdrawals have resulted in significant long-term declines in water levels in some areas. Declining ground-water levels and the ability of the aquifers to meet the increasing demand for water continue to be important water-resources concerns in the State.

In central Mississippi, water levels in the Cockfield Formation declined slightly at selected sites, while levels in a few wells near pumping centers declined 1 to 4 feet. Wells screened in the Sparta Sand indicated declines of 2 to 6 feet. Record low water levels were measured in several wells in the Cockfield and Sparta aquifers in the Jackson metropolitan area. Water levels in wells screened in the Vicksburg Group and Forest Hill Sand used primarily for domestic use declined slightly at selected sites.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives: (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO₂ emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO₂ and NO_x scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the world wide web at:

<http://nadp.nrel.colostate.edu/NADP>

National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the world wide web at:

http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html

Radiochemical Program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1999 water year that began October 1, 1998, and ended September 30, 1999. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figures 4, 5, and 6. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-to-fourteen digit number for each station, such as 02429900, which appears just to the left of the station name, includes the two-digit Part number "02" plus the six-to-twelve digit downstream-order number "429900". In this report, the records are listed in downstream order by parts. The Part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 2 (South Atlantic slope and eastern Gulf of Mexico basins), Part 3 (Ohio River basin), and Part 7 (Lower Mississippi River basin). All records for a drainage basin encompassing more than one state can be arranged in downstream order by assembling pages from the various state reports by station number to include all records in that basin.

Latitude-Longitude System

The identification numbers for wells, miscellaneous surface-water quality sites, and precipitation quality sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. See figure 2 below.

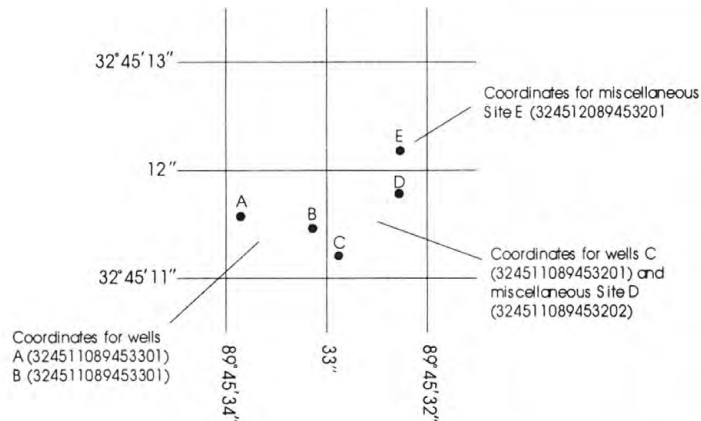


Figure 2.--System for numbering wells and miscellaneous sites (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device, and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record and crest-stage partial-record stations for which data are given in this report are shown in figures 4 and 5.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with a water-stage recorder. Measurements of discharge are made using methods adopted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI's), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of measurements, the curves are extended using: (1) logarithmic plotting, (2) velocity-area studies, (3) results of indirect measurements of peak discharge, such as slope area or contracted-opening measurements, and computations of flow over dams or weirs, or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage, at these stations the rate of change in stage is used as a factor in computing discharge. At some gaging stations, acoustic velocity meter (AVM) systems are used to compute discharge. The AVM system measures the stream's velocity at one or more paths in the cross section. Coefficients are developed to relate this path velocity to the mean velocity in the cross section. Because the AVM sensors are fixed in position, the adjustment coefficients generally vary with stage. Cross-sectional area curves are developed to relate stage, recorded as noted above, to cross section area. Discharge is computed by multiplying path velocity by the appropriate stage related coefficient and area.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as the lapsed time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1992 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised, "(m)" that only the instantaneous minimum was revised, and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see definition of terms), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--For stations meeting certain criteria, all peak discharges and stages occurring during the water year and equal to or greater than a selected base discharge are presented under this heading. The peaks equal to or greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears in the summary statistics table at the bottom of the page.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, and in some cases EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph as appropriate.

Manuscript information for stations which only provide stage or partial-record data differs from that for continuous record discharge stations in that headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, and EXTREMES FOR CURRENT YEAR are included.

Data table of daily mean values

The daily table of discharge records for stream-gaging stations give mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"); or in inches (line headed "IN."); or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontribution areas. At some stations monthly and (or) yearly observed discharges are adjusted or reservoir storage or diversion, or diversion data or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS _____, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS _____," will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings below.), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two sections. The first section contains stage and discharge data for selected events at flood hydrograph stations. The second section is a table of annual maximum stage and discharge at crest-stage stations. The partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records depends primarily on: (1) The stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values, "good," within 10 percent, and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft³/s, to the nearest tenth between 1.0 and 10 ft³/s, to whole numbers between 10 and 1,000 ft³/s, and to 3 significant figures for more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables is on file in the Mississippi District. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the office whose address is given on the back of the title page of this report.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records", as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 4.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and miscellaneous sites and for short-term studies appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are detailed in TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. These references are listed in the PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see special networks and programs) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured except pH (maximum and minimum only), and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the District Office of the Mississippi District whose address is given on the back of the title page of this report.

Water Temperature

Water temperatures are measured at most of the water-quality stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM standards and generally follow ISO standards.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. Sediment samples are analyzed in the Geological Survey laboratory in Baton Rouge, Louisiana. All other samples are analyzed in the Geological Survey laboratories in Arvada, Colorado and Ocala, Florida. Methods used to analyze sediment samples and to compute sediment records are described in TWRI Book 5, Chapter C1. Methods used by the Geological Survey laboratories are given in TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, A4 and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily, are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge," same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge," same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, NWIS. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sites and short-term studies are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Numerical codes have been assigned for agencies collecting and/or analyzing samples. A numerical code will not be given in a water-quality table when the collecting and analyzing agency is the U.S. Geological Survey. The agency codes that may be given in this report are as follows:

300	National Atmospheric Deposition Program/	55555	Individual
	National Trends Network	66666	Driller
810	Corps of Engineers, U.S. Army	80020	U.S. Geological Survey, National Water-
1028	U.S. Geological Survey		Quality Laboratory, Denver, Colorado
1053	National Park Service	81213	U.S. Geological Survey, Water-Quality
3315	Tennessee Valley Authority		Service Unit, Ocala, Florida
9728	Mississippi Department of Health	82213	U.S. Geological Survey, Water-Quality
28001	Mississippi Office of Pollution Control		Service Unit, Baton Rouge, Louisiana
28002	Mississippi Office of Geology	99001	Private Contractor
28003	Mississippi Office of Land and	99999	Other
	Water Resources		

Numerical codes have been assigned to describe the source of the sample and the conditions under which it was collected. A numerical code will not be given in a water-quality table except to describe unusual conditions. The codes that may be given in this report are as follows:

Sample Source	Sampling Condition
1 Well head	0.10 Site was being pumped
2 Drill stem test	0.11 Site had been pumped recently
5 Flow line	0.12 Nearby site tapping
8 Tank	same aquifer was being pumped
16 Casing leak	2 Undesignated
26 Pump	4 Flowing
27 Tap near well	8 Pumping
28 Tap away from well	10 Open hole
30 Pressure tank	15 Bailing
31 Discharge Pipe	24 Water flooding
33 Bailer	26 Production and development test
80 After pressure tank	27 Production by unknown method
1001 Wet deposition	30 Seeping
1003 Landfill	
1005 Landfill seep	

Codes have been assigned to qualify each determined value, if necessary. The remark codes that may be given in this report are as follows:

- > Actual value is known to be greater than the value shown
- < Actual value is known to be less than the value shown
- & Biological organism estimated as dominant
- A Average value
- D Biological organism count equal to or greater than 15 percent (dominant)
- E Estimated value
- K Results based on colony count outside the acceptance range (non-ideal colony count)
- L Biological organism count less than 0.5 percent (organism may be observed rather than counted)
- M Presence of material verified but not quantified
- N Presumptive evidence of presence of material
- S Most probable value
- U Material specifically analyzed for but not detected
- V Analyte was detected in both the environmental sample and the associated blanks.

Dissolved Sulfate Analysis

In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. Sulfate values during this period have not been corrected for this bias.

Dissolved Trace-Element Concentrations

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Change in National Trends Network Procedures

Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences, based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

Records of Ground-Water Levels

Water-level data are intended to provide a sampling and historical record of water-level changes in the Nation's most important aquifers. Locations of the observation wells in Mississippi are shown in figure 6.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, derived from the township-range location of the well.

Water-level records are obtained from direct measurements with a steel tape or from a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds), a landline location designation, the hydrologic-unit number, the distance and direction from a geographic point of reference, and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) sea level. It is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. Water levels above land surface datum are preceded by a minus (-). For wells equipped with recorders, only abbreviated tables are published. Generally, only water-level lows are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. A hydrograph for a selected period of record follows each water-level table.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly, therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey TWRI publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records, however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at:

<http://water.usgs.gov>

Some water-quality and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on magnetic tape or 3-1/2-inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of Units (SI) on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet, or about 326,000 gallons, or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials, for example, by decomposing organic matter into a form available for reuse by plants.

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria which produce pink to red colonies and black or reddish-brown precipitate after incubation at 41°C on mE agar and subsequent transfer to EIA medium. Enterococci include Streptococcus faecalis, Streptococcus faecium, Streptococcus avium, and their variants.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C $\pm$ 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C $\pm$ 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C $\pm$ 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Base flow is fair-weather flow sustained by ground-water discharge.

Bedload is the sediment which moves along in essentially continuous contact with the streambed by rolling, sliding, and making brief excursions into the flow a few diameters above the bed.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic invertebrates are invertebrate animals inhabiting the bottoms of lakes, streams, and other water bodies. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligram per liter, used for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area of volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. Ash-mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass is expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See "Bed material."

Cells/volume refers to the number of plankton cells or natural units counted using a microscope and grid or counting cell. Results are generally reported as cells or units per milliliter.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuing-record station is a specified site which meets one or all conditions listed:

1. When chemical samples are collected daily or monthly for 10 or more months during the water year.
2. When water temperature records include observations taken one or more times daily.
3. When sediment discharge records include periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (ft^3/s or ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute.

Cubic foot per second-day (ft^3/d) is the volume of water represented by a discharge of cubic feet per second for 24 hours. One cubic foot per second for 24 hours is equivalent to 86,400 cubic feet, 1.9835 acre-feet, about 646,000 gallons, or 2,445 cubic meters.

Cubic foot per second per square mile [CFSM or $(\text{ft}^3/\text{s})/\text{mi}^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Instantaneous discharge is the discharge at a particular instant of time.

Mean discharge (MEAN) is the arithmetic average of individual daily mean discharges during a specific period.

Dissolved refers to that material in a representative water sample which passes through a 0.45 μm membrane filter. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) The dissolved oxygen content of water in equilibrium with air is a function of atmospheric pressure, and temperature and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant effect. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Extractable organic halides (EOX) are organic compounds which contain halogen atoms such as chlorine. These organic compounds are semi-volatile and extractable by ethyl acetate from air-dried stream bottom sediments. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms or chlorine per gram of the dry weight of the stream bottom sediments.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as equivalent calcium carbonate (CaCO_3).

High tide is the maximum height reached by each rising tide.

Hydrologic Bench-Mark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps, each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Low tide is the minimum height reached by each falling tide.

Mean high tide is the average of all high tides over a specified period.

Mean low tide is the average of all low tides over a specified period.

Mean water level is the average of all tides over a specified period.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Membrane filter is a thin microporous material of specified size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, $\mu\text{g/g}$) is a unit expressing the concentration of a chemical constituent the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per liter (UG/L, $\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Microsiemens per centimeter (US/cm, US/CM) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of dry sediment per liter of water-sediment mixture.

Miscellaneous station is a particular site where random streamflow and/or water-quality data are collected, often on a one-time basis, to provide better areal coverage in a river basin; or where data are collected once or more frequently, but not on a regular basis, as part of a project.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. It is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic-invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives: (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO₂ emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO₂ and NO_x scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the world wide web at:

<http://nadp.nrel.colostate.edu/NADP>

National Geodetic Vertical Datum of 1929 (NGVD or NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

National Stream Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the world wide web at:

http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area habitat, usually square meter (m²), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey's computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent. The codes used in NWIS are the same as those used in the U.S. Environmental Protection Agency's data system, STORET.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analyses
Clay.	0.00024 - 0.004	Sedimentation.
Silt.	.004 - .062	Sedimentation.
Sand.	.062 - 2.0	Sedimentation or sieve.
Gravel.	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

Periphyton is the assemblage of microorganisms attached to the living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCB's) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m².time)] for periphyton and macrophytes and [mg C/(m³.time)] for phytoplankton are the units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O/(m².time)] for periphyton and macrophytes and [mg O/m³.time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radiochemical Program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

River mileage for a stream is determined in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council. Bulletin No. 14 presents the council's adopted techniques for stream mileage measurements for use in all Federal planning involving water and related land resources in accordance with its function to effectuate the policies of the United States concerning water and related land resources.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea level in this report refers to the National Geodetic Vertical Datum of 1929 (NGVD)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water, it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed-load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) X discharge (ft³/s) X 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Suspended total residue at 105°C concentration is the concentration of suspended sediment in the sampled zone expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). A small aliquot of the sample is used for the analysis.

Total-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

7-day 10-year low flow (7Q10) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton.

Natural substrate refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lives.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminate sources.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata, is the following:

Kingdom.....	Animal
Phylum.....	Arthropoda
Class.....	Insects
Order.....	Ephemeroptera
Family.....	Ephemeridae
Genus.....	<u>Hexagenia</u>
Species.....	<u>Hexagenia limbata</u>

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day (T/DAY) is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total". (Note that the word "total" does double duty here, indicating that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total, in bottom material, is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined.

Total load is the quantity of any individual constituent, as measured by dry mass or volume that passes through a section during a specified period. It is computed by multiplying the total stream discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Total, recoverable, is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses, because different digestion procedures are likely to produce different analytical results.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

Turbidity of water is the reduction of transparency due to the presence of suspended particulate matter. The unit of measure is the nephelometric turbidity unit (NTU) and is a measure of light scatter of a beam of light passed through a sample of water.

Volatile Organic Compounds (VOC's) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOC's are man-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1985, is called the "1985 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual Hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1976.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

- 1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.

Section E. Subsurface Geophysical Methods

- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W. S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.

Section F. Drilling and Sampling Methods

- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W. E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurement at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 34 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY--Continued

- 3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F. A. Kilpatrick, R. E. Rathbun, Nobuhiro Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.
- 3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1993. 38 pages.
- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS--TWRI Book 3, Chapter A21. 1995. 56 pages.

Section B. Ground-Water Techniques

- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by R. L. Cooley and R. L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 3-B4. *Supplement 1. Regression modeling of ground-water flow - Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R. L. Cooley: USGS--TWRI Book 3, Chapter B4. 1993. 8 pages.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction*, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow*, by E. J. Wexler: USGS--TWRI Book 3, Chapter B7. 1992. 190 pages.

Section C. Sedimentation and Erosion Techniques

- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by Thomas K. Edwards and G. Douglas Glysson: USGS--TWRI Book 3, Chapter C2. 1988. 80 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

Section B. Surface Water

- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

Section D. Interrelated Phases of the Hydrologic Cycle

- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

Book 5. Laboratory Analysis

Section A. Water Analysis

- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. J. Fishman and L. C. Friedman, editors: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY--Continued

- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R. L. Wershaw, M. J. Fishman, R. R. Grabbe, and L. E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L. J. Britton and P. E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

Section C. Sediment Analysis

- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

Book 6. Modeling Techniques

Section A. Ground Water

- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S. A. Leake and D. E. Prudic: USGS--TWRI Book 6, Chapter A2. 1991. 68 pages.
- 6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L. J. Torak: USGS--TWRI Book 6, Chapter A3. 1993. 136 pages.
- 6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R. L. Cooley: USGS--TWRI Book 6, Chapter A4. 1992. 108 pages.
- 6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details*, by L. J. Torak: USGS--TWRI Book 6, Chapter A5. 1993. 243 pages.
- 6-A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler: USGS--TWRI Book 6, Chapter A6. 1996. 125 pages.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

Section B. Instruments for Measurement of Discharge

- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

- 9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F. D. Wilde, D. B. Radtke, Jacob Gibs, and R. T. Iwatsubo: USGS--TWRI Book 9, Chapter A1. 1998. 47 pages.
- 9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F. D. Wilde, D. B. Radtke, Jacob Gibs, and R. T. Iwatsubo: USGS--TWRI Book 9, Chapter A2. 1998. 94 pages.

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY--Continued

- 9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F. D. Wilde, D. B. Radtke, Jacob Gibbs, and R. T. Iwatsubo: USGS--TWRI Book 9, Chapter A3. 1998. 75 pages.
- 9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F. D. Wilde, D. B. Radtke, Jacob Gibbs, and R. T. Iwatsubo: USGS--TWRI Book 9, Chapter A4. 1999. 156 pages.
- 9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F. D. Wilde, D. B. Radtke, Jacob Gibbs, and R. T. Iwatsubo: USGS--TWRI Book 9, Chapter A5. 1999. 149 pages.
- 9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F. D. Wilde and D. B. Radtke: USGS--TWRI Book 9, Chapter A6. 1998. Variously paginated.
- 9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, by D. N. Myers and F. D. Wilde: USGS--TWRI Book 9, Chapter A7. 1997 and 1999. Variously paginated.
- 9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom Material Samples*, by D. B. Radtke: USGS--TWRI Book 9, Chapter A8. 1998. 48 pages.
- 9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S. L. Lane and R. G. Fay: USGS--TWRI Book 9, Chapter A9. 1998. 60 pages.

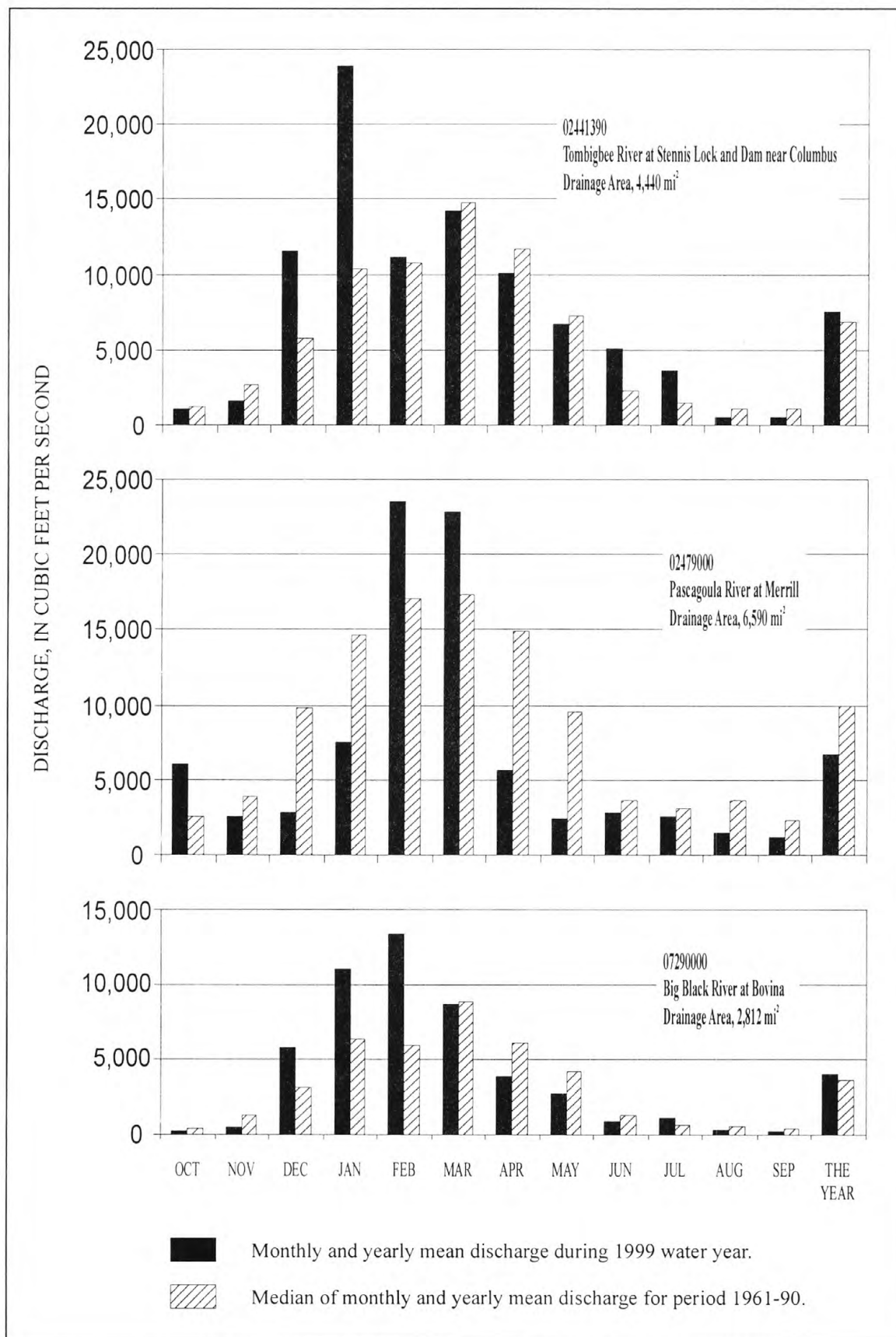


Figure 3.--Relation of discharge during 1999 water year with median discharge for period 1961-90 for three representative gaging stations.

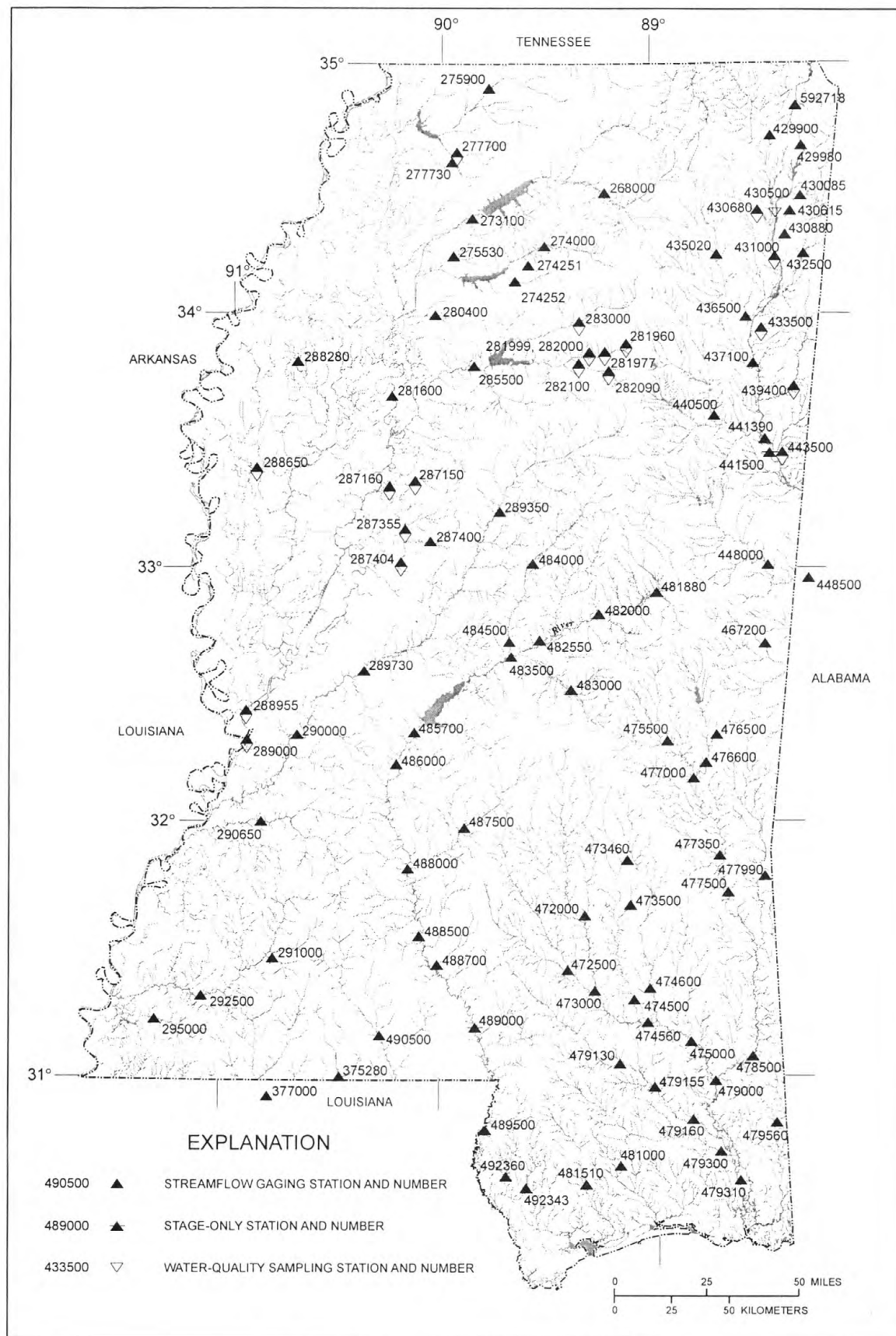


Figure 4.--Location of hydrologic-data stations.

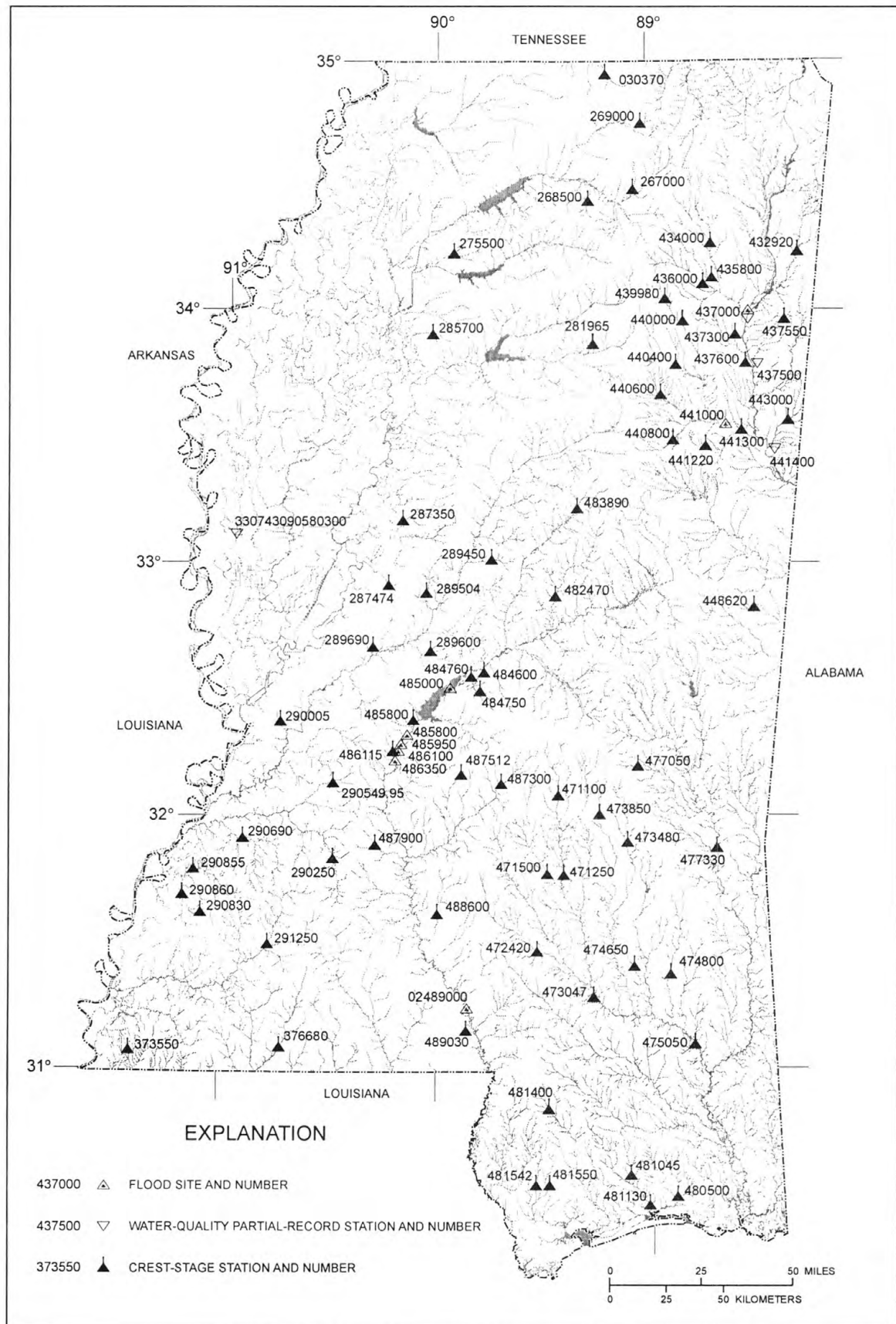


Figure 5.--Location of partial-record stations.

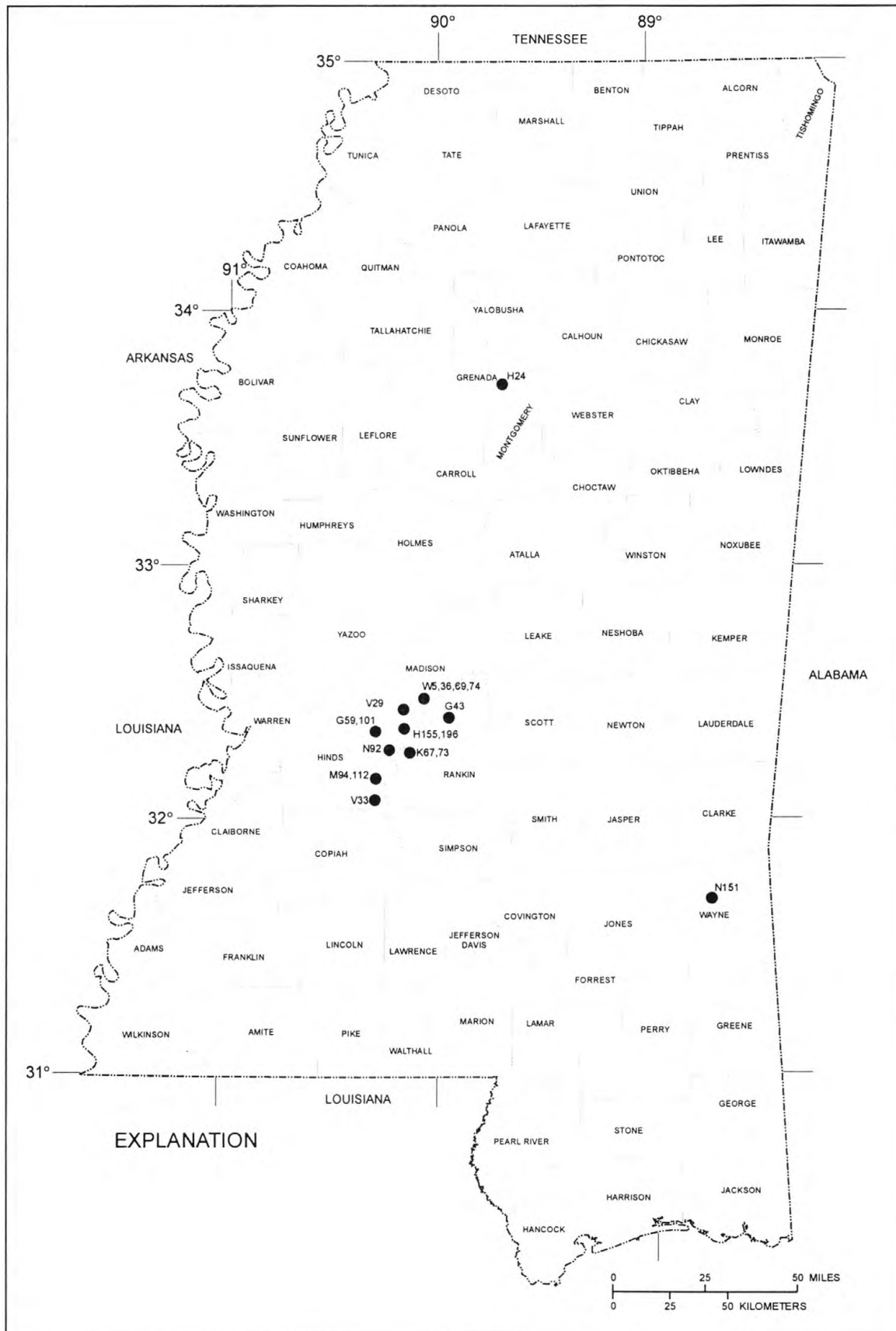


Figure 6.--Location of observation wells.

EASTERN GULF OF MEXICO BASINS

MOBILE RIVER BASIN

02429900 BIG BROWN CREEK NEAR BOONEVILLE, MS

LOCATION.--Lat 34°37'30", long 88°26'41", SW1/4 NE1/4 sec.27, T.5 S., R.8 E., Chickasaw Meridian, Prentiss County, Hydrologic Unit 03160101, on left bank, near upstream side of bridge on State Highway 30, 2.5 mi upstream from Martin Creek, 8.0 mi east of Highway 45 at Booneville, and 14.2 mi upstream from mouth.

DRAINAGE AREA.--26.7 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1952-56, 1958-60, 1972, annual maximum stage water years 1951-60, and annual maximum discharge, water years 1961-73. June 1973 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 328.81 ft above sea level (levels by Tennessee Valley Authority). Prior to June 1973, crest-stage gage at site was at datum 76.36 ft lower and from June 1973 until November 1998 at county road 0.4 mi downstream at datum, 2.25 lower.

REMARKS.--Satellite telemeter at station.

Note.--Records for 1999 Water Year will be published in a subsequent report.

02429980 POLLARD MILL BRANCH AT PADEN, MS

LOCATION.--Lat 34°39'13", long 88°14'53", in SW1/4 SE1/4 sec.9, T.5 S., R.10 E., Chickasaw Meridian, Tishomingo County, Hydrologic Unit 03160101, on left bank 30 ft upstream from culvert on State Highway 30, 0.8 mi east of Padon.

DRAINAGE AREA.--2.01 mi².

PERIOD OF RECORD.--Annual maximums, water years 1967-72. October 1972 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder and culvert control. Elevation of gage is 440 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 4 - Nov. 7, 12, Nov. 22 - Dec. 6, 10-15, Mar. 31 - Apr. 27, Jul. 1-9, Jul. 16 - Aug. 6, 11-20, and Aug. 25 - Sept. 18. Records poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 225 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 23	0245	*387	*5.31	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	e2.0	e3.0	3.9	6.8	6.1	e6.8	5.3	5.0	e6.0	e3.9	e2.5
2	3.9	e3.5	e3.9	10	6.3	7.3	e6.0	5.0	4.2	e5.0	e3.2	e1.9
3	22	e2.5	e3.0	5.5	6.2	8.0	e5.7	4.9	4.7	e4.7	e4.3	e3.1
4	e2.9	e2.2	e2.7	4.4	5.7	6.0	e15	5.0	5.6	e4.3	e4.4	e2.6
5	e2.6	e2.1	e4.0	3.9	5.7	5.8	e7.4	13	4.7	e4.0	e4.6	e2.0
6	e2.5	e2.0	e3.4	3.9	5.9	9.4	e11	15	4.5	e3.8	e3.3	e3.0
7	e12	e3.9	5.5	4.3	6.4	6.5	e8.5	7.8	4.3	e7.1	4.1	e2.4
8	e2.8	4.3	6.4	10	5.5	6.7	e7.0	6.8	4.1	e5.8	4.4	e2.0
9	e2.6	4.0	4.5	13	5.5	9.6	e6.2	6.5	4.1	e5.4	4.5	e3.3
10	e2.4	5.0	e4.2	5.5	5.5	6.6	e6.3	6.3	4.1	11	4.2	e2.5
11	e2.3	3.4	e6.4	4.7	5.3	6.6	e5.4	6.1	4.0	8.6	e3.0	e1.8
12	e2.1	e2.5	e50	4.4	7.8	6.1	e5.0	5.8	4.2	6.6	e4.3	e1.7
13	e2.0	3.7	e17	7.5	5.5	22	e4.7	5.3	4.1	5.9	e3.5	e3.1
14	e1.9	5.6	e7.0	8.3	5.4	14	e11	5.1	4.3	5.4	e2.6	e3.4
15	e1.9	4.5	e4.3	5.2	5.1	8.9	e9.0	4.9	4.0	5.5	e2.4	e2.5
16	e1.9	4.0	3.5	4.6	5.2	7.6	e8.4	4.9	4.0	e4.6	e2.3	e2.1
17	e1.9	3.7	3.3	4.3	6.5	7.0	e6.0	4.7	3.9	e4.4	e2.6	e3.7
18	e2.0	3.9	3.0	4.8	5.5	6.5	e5.3	4.8	3.5	e5.2	e2.4	e2.6
19	e2.2	4.3	4.2	4.0	5.3	6.3	e5.0	4.5	3.5	e4.8	e2.3	3.7
20	e2.3	5.7	3.3	3.9	5.1	7.3	e4.7	4.4	3.4	e4.5	e3.5	3.9
21	e2.0	4.1	3.1	3.9	4.9	6.6	e4.5	4.4	3.4	e4.2	4.5	4.2
22	e1.9	e3.5	4.0	38	4.9	6.1	e4.3	4.5	3.3	e4.0	3.8	4.0
23	e1.9	e2.8	4.9	103	5.0	5.9	e4.1	4.4	5.0	e4.8	2.6	3.3
24	e2.2	e2.6	5.6	11	4.7	6.1	e4.0	4.3	10	e4.0	3.6	3.1
25	e2.2	e3.9	3.7	8.1	4.8	5.9	e7.0	4.3	4.8	e3.7	e2.7	3.1
26	e2.0	e3.0	4.9	7.2	4.7	5.7	e11	4.5	4.8	e3.6	e2.5	3.0
27	e3.1	e2.6	4.5	6.7	11	5.5	e8.0	4.3	4.7	e4.2	e2.8	3.0
28	e2.3	e3.4	11	6.3	7.6	5.5	5.9	3.8	4.0	e4.8	e2.3	3.1
29	e2.0	e3.9	5.1	8.2	---	7.4	5.7	3.9	5.4	e3.8	e2.2	3.7
30	e2.2	e2.6	4.2	8.9	---	6.2	5.3	4.3	7.8	e3.5	e2.0	3.7
31	e2.1	---	3.8	7.6	---	e8.4	---	4.9	---	e3.9	e3.4	---
TOTAL	101.0	105.2	197.4	325.0	163.8	233.6	204.2	173.7	137.4	157.1	102.2	88.0
MEAN	3.26	3.51	6.37	10.5	5.85	7.54	6.81	5.60	4.58	5.07	3.30	2.93
MAX	22	5.7	50	103	11	22	15	15	10	11	4.6	4.2
MIN	1.9	2.0	2.7	3.9	4.7	5.5	4.0	3.8	3.3	3.5	2.0	1.7
MED	2.2	3.6	4.2	5.5	5.5	6.6	6.0	4.9	4.2	4.7	3.3	3.0
CFSM	1.62	1.74	3.17	5.22	2.91	3.75	3.39	2.79	2.28	2.52	1.64	1.46
IN.	1.87	1.95	3.65	6.01	3.03	4.32	3.78	3.21	2.54	2.91	1.89	1.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1999, BY WATER YEAR (WY)

MEAN	4.45	5.87	7.29	7.35	7.29	8.91	7.59	7.30	4.92	4.30	4.06	4.40
MAX	7.30	14.0	17.7	25.2	16.0	26.4	15.8	27.7	8.49	6.73	6.31	15.4
(WY)	1978	1978	1983	1974	1991	1973	1983	1991	1997	1994	1979	1979
MIN	3.10	3.44	3.35	3.49	4.31	4.47	3.74	2.65	2.30	2.38	2.16	2.47
(WY)	1983	1991	1994	1981	1978	1986	1986	1988	1988	1987	1988	1987

SUMMARY STATISTICS

	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1973 - 1999
ANNUAL TOTAL	2120.9	1988.6	
ANNUAL MEAN	5.81	5.45	6.14
HIGHEST ANNUAL MEAN			9.88
LOWEST ANNUAL MEAN			3.79
HIGHEST DAILY MEAN	50	103	328
LOWEST DAILY MEAN	1.9	1.7	1.7
ANNUAL SEVEN-DAY MINIMUM	2.0	2.0	1.8
INSTANTANEOUS PEAK FLOW		387	1200
INSTANTANEOUS PEAK STAGE		5.31	9.02
ANNUAL RUNOFF (CFSM)	2.89	2.71	3.05
ANNUAL RUNOFF (INCHES)	39.25	36.80	41.51
10 PERCENT EXCEEDS	9.6	7.9	9.1
50 PERCENT EXCEEDS	5.0	4.4	4.5
90 PERCENT EXCEEDS	2.7	2.4	3.1

e Estimated

02430085 RED BUD CREEK NEAR MOORES MILL, MS

LOCATION.--34°28'00", long 88°16'59", in SW1/4 SE1/4 sec.18, T.7 S., R.10 E., Chickasaw Meridian, Tishomingo County, Hydrologic Unit 03160101, near left bank on upstream side of bridge on county road, 0.18 mi south of intersection of county road and blacktop road, 2.7 mi east-southeast of Moores Mill, and 5.6 mi southwest of Belmont.

DRAINAGE AREA.--15.7 mi².

PERIOD OF RECORD.--June 1975 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 360.36 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 31 - Jan. 7, Jan. 25 - Feb. 4, Feb. 11-23, May 15-17, Jun. 27 - Jul. 6, and Jul. 8-11. Records fair except for estimated daily discharges, which are poor. Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 9	0245	776	11.06	Mar. 13	1015	744	10.99
Jan. 14	0115	863	11.24	May 6	0130	758	11.02
Jan. 23	0030	*889	*11.29				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	5.0	9.1	e28	e35	41	38	12	16	e7.2	4.0	2.7
2	3.5	5.6	8.5	e130	e28	75	31	11	10	e7.0	3.8	2.7
3	14	6.4	8.1	e70	e26	201	30	9.9	8.1	e6.8	3.7	2.8
4	5.7	6.2	8.0	e38	e27	109	154	9.1	7.2	e6.4	3.6	2.7
5	4.4	6.2	8.0	e28	31	75	60	51	6.5	e6.2	3.5	2.8
6	4.2	6.1	7.5	e27	31	157	64	268	6.0	e6.1	3.4	2.7
7	6.6	6.6	21	e26	38	97	40	71	5.6	9.7	3.3	2.8
8	5.6	9.3	19	97	28	74	35	43	5.6	e17	3.6	2.8
9	4.6	8.6	14	319	52	168	30	31	5.7	e25	3.6	3.0
10	4.3	19	15	94	62	92	26	24	5.6	e50	3.5	2.8
11	3.9	11	32	55	e25	77	21	19	6.2	e28	3.3	2.8
12	3.8	9.7	258	43	e50	55	18	18	5.7	13	3.3	2.8
13	3.7	8.8	148	105	e35	368	17	36	5.7	8.4	3.2	2.8
14	3.7	21	43	343	e31	263	17	19	10	7.2	3.1	2.8
15	3.7	18	27	98	e29	131	91	e12	10	6.5	3.0	2.6
16	3.6	9.8	21	58	e26	82	30	e11	7.2	6.0	3.0	2.5
17	3.5	8.3	18	45	e58	60	22	e9.2	6.1	5.6	3.0	2.5
18	3.7	7.6	16	53	e40	48	19	11	5.6	5.3	3.0	2.5
19	4.1	8.0	25	36	e30	40	18	9.6	5.4	5.1	3.0	2.5
20	4.3	27	19	31	e28	58	16	8.4	5.3	4.9	3.0	2.6
21	4.2	15	16	28	e26	51	14	8.2	5.2	4.7	3.0	2.6
22	3.9	11	23	362	e25	37	13	9.9	5.5	4.5	2.9	2.6
23	4.0	11	33	431	e24	33	12	8.8	8.9	4.5	2.9	2.5
24	4.2	10	93	122	22	33	13	7.6	35	4.8	3.1	2.4
25	4.3	9.9	39	e75	22	27	17	7.0	65	4.4	3.3	2.3
26	4.4	9.2	47	e50	21	24	90	8.2	30	6.4	3.0	2.2
27	4.3	8.6	43	e33	61	23	52	7.8	e10	8.1	3.0	2.2
28	4.3	8.2	218	e31	91	22	22	6.8	e9.0	5.0	2.9	2.1
29	4.4	8.4	73	e30	---	52	16	6.2	e8.2	4.6	2.8	2.2
30	4.5	8.6	38	e70	---	31	14	6.5	e7.8	4.2	2.8	2.3
31	4.8	---	e27	e40	---	52	---	14	---	4.2	2.7	---
TOTAL	141.8	308.1	1375.2	2996	1002	2656	1040	774.2	328.1	286.8	99.3	77.6
MEAN	4.57	10.3	44.4	96.6	35.8	85.7	34.7	25.0	10.9	9.25	3.20	2.59
MAX	14	27	258	431	91	368	154	268	65	50	4.0	3.0
MIN	3.5	5.0	7.5	26	21	22	12	6.2	5.2	4.2	2.7	2.1
MED	4.2	8.7	23	53	30	58	22	11	6.8	6.2	3.1	2.6
CFSM	.29	.65	2.83	6.16	2.28	5.46	2.21	1.59	.70	.59	.20	.16
IN.	.34	.73	3.26	7.10	2.37	6.29	2.46	1.83	.78	.68	.24	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1999, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	11.9	25.4	43.2	41.3	45.8	50.0	38.0	36.3	19.6	11.9	9.48	7.96													
MAX	24.5	64.5	128	96.6	108	119	116	207	86.3	50.2	21.7	34.5													
(WY)	1976	1987	1991	1999	1990	1980	1991	1991	1997	1989	1997	1979													
MIN	3.68	5.00	10.2	10.2	16.6	20.2	8.58	3.85	3.25	3.15	2.54	2.08													
(WY)	1979	1982	1982	1986	1992	1982	1986	1992	1988	1977	1981	1987													

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1975 - 1999

ANNUAL TOTAL	10666.2	11085.1	
ANNUAL MEAN	29.2	30.4	28.3
HIGHEST ANNUAL MEAN			58.0
LOWEST ANNUAL MEAN			12.6
HIGHEST DAILY MEAN	258	431	1200
LOWEST DAILY MEAN	3.4	2.1	1.4
ANNUAL SEVEN-DAY MINIMUM	3.5	2.2	1.6
INSTANTANEOUS PEAK FLOW		889	2330
INSTANTANEOUS PEAK STAGE		11.29	13.13
ANNUAL RUNOFF (CFSM)	1.86	1.93	1.80
ANNUAL RUNOFF (INCHES)	25.27	26.27	24.47
10 PERCENT EXCEEDS	72	70	55
50 PERCENT EXCEEDS	16	10	15
90 PERCENT EXCEEDS	3.8	3.0	3.6

e Estimated

MOBILE RIVER BASIN

02430500 TOMBIGBEE RIVER NEAR MARIETTA, MS

LOCATION.--Lat 34°25'36", long 88°25'17", in NE1/4 SE1/4 sec.35, T.7 S., R.8 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, at bridge on unimproved road 0.5 mi downstream from confluence of Big Brown Creek Canal and Mackeys Creek, and 6 mi southeast of Marietta.

DRAINAGE AREA.--308 mi², prior to construction of Tennessee-Tombigbee Waterway.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to September 1950. October 1968 to September 1977 (annual maximums only). October 1988 to current year (low-flow records only).

GAGE.--Water-stage recorder. Datum of gage is 282.16 ft above sea level. October 1968 to September 1977, nonrecording gage.

REMARKS.--Estimated daily discharges: Nov. 6-18, Jan. 17-22, Jun. 2-22, Jun. 24 - Jul. 11 and Jul. 13-27. Records good except for estimated daily discharges, which are poor. Discharges above 500 ft³/s not determined. Satellite telemeter, telemeter, and U.S. Army Corps of Engineers radio telemeter at station.

AVERAGE DISCHARGE.--13 years (water years 1937-50), 502 ft³/s, 22.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,600 ft³/s, Mar. 17, 1973, gage height, 12.30 ft; maximum gage height, 15.24 ft, May 27, 1991 (discharge not determined); minimum discharge, 10 ft³/s, Aug. 18, 1943, gage height, 2.30 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined, maximum gage height, not determined, minimum daily discharge, 99 ft³/s, Dec. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	174	106	326	---	369	---	290	229	e168	120	129
2	133	178	106	---	435	328	497	270	e300	e155	120	129
3	411	182	137	---	386	462	459	256	e240	e153	121	129
4	304	178	136	---	346	391	---	249	e190	e160	122	130
5	152	178	137	424	315	338	---	249	e173	e170	122	130
6	127	e184	136	344	303	426	---	---	e161	e165	124	129
7	122	e184	155	323	324	393	474	---	e152	e150	130	129
8	123	e191	145	---	320	344	436	414	e144	e145	133	129
9	152	e203	135	---	296	444	417	334	e137	e148	129	130
10	155	e187	118	---	322	397	391	288	e137	e160	124	131
11	133	e160	210	---	310	357	373	258	e138	e180	124	131
12	128	e130	---	477	350	332	346	242	e145	205	134	131
13	132	e125	---	499	333	---	327	268	e153	e160	128	130
14	133	e160	---	---	294	---	320	262	e162	e145	125	130
15	138	e219	347	---	276	---	417	234	e145	e135	124	130
16	118	e194	241	---	265	462	395	221	e130	e130	125	130
17	101	e174	185	e470	306	422	349	211	e120	e127	127	130
18	99	e166	153	e417	315	389	325	221	e110	e126	129	130
19	103	156	192	e365	292	363	312	224	e105	e125	131	130
20	151	172	232	e322	272	360	300	199	e103	e124	133	130
21	151	196	188	e305	262	394	289	189	e102	e122	134	130
22	123	170	232	e499	252	365	280	189	e101	e123	133	130
23	131	162	238	---	245	349	272	188	104	e125	131	130
24	165	160	---	---	239	348	264	182	e310	e124	130	130
25	176	154	469	476	234	357	359	180	---	e123	130	130
26	177	148	391	412	238	354	492	184	---	e125	130	130
27	177	150	472	372	271	355	493	189	e300	e136	130	129
28	178	151	---	340	457	367	394	181	e240	125	130	128
29	177	147	---	342	---	444	338	176	e200	124	129	128
30	178	138	---	471	---	478	331	181	e180	122	128	128
31	177	---	397	---	---	---	---	195	---	121	129	---
TOTAL	4859	5071	---	---	---	---	---	---	---	4401	3959	3890
MEAN	157	169	---	---	---	---	---	---	---	142	128	130
MAX	411	219	---	---	---	---	---	---	---	205	134	131
MIN	99	125	---	---	---	---	---	---	---	121	120	128
CFSM	.51	.55	---	---	---	---	---	---	---	.46	.41	.42
IN.	.59	.61	---	---	---	---	---	---	---	.53	.48	.47

e Estimated

MOBILE RIVER BASIN

35

02430500 TOMBIGBEE RIVER NEAR MARIETTA, MS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-73, 1989-97, 1999 to current year.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
JUN 22...	1545	98	53	14

02430615 MUD CREEK NEAR FAIRVIEW, MS

LOCATION.--Lat 34°23'33", long 88°21'18", in NW1/4 NE1/4 sec.16, T.8 S., R.9 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03170101, at left bank on downstream side of bridge on county road 3.0 mi northwest of Fairview and 8.8 mi north-northeast of Fulton.

DRAINAGE AREA.--11.1 mi².

PERIOD OF RECORD.--June 1975 to current year.

REVISED RECORDS.--WDR MS-78-1: 1976(P), 1977(P).

GAGE.--Water-stage recorder. Elevation of gage is 313 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 22	2230	*1,040	*9.88	May 6	0215	503	9.08

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	4.5	7.4	17	32	22	27	16	24	9.4	3.5	1.9
2	9.0	5.4	7.5	55	27	66	24	16	12	8.2	3.5	1.9
3	19	5.7	7.3	29	23	98	24	15	9.8	7.4	2.7	2.0
4	8.2	5.2	7.2	19	21	34	75	15	8.9	7.3	2.7	1.9
5	6.8	4.9	7.3	17	20	29	31	36	8.2	6.4	2.8	2.3
6	6.7	4.8	7.4	18	23	72	46	138	7.6	6.3	2.8	2.2
7	12	4.9	18	18	29	32	29	27	7.3	10	2.7	2.0
8	8.3	7.8	15	39	21	29	27	20	7.0	9.3	3.0	2.1
9	6.8	7.1	11	83	60	75	25	17	6.9	8.3	3.6	3.1
10	6.4	13	12	27	54	33	23	15	7.1	8.4	3.4	2.6
11	6.0	9.5	19	22	30	32	21	14	7.4	9.2	3.2	2.6
12	5.3	6.6	148	19	45	28	19	13	7.3	9.5	3.2	2.4
13	5.2	6.0	55	35	27	136	19	26	7.3	7.3	2.8	2.5
14	5.1	17	22	77	24	93	21	15	9.8	6.5	2.5	2.4
15	4.9	14	17	27	22	46	59	13	9.8	6.1	2.4	2.1
16	4.9	8.7	16	22	22	36	27	12	7.7	5.8	2.4	1.9
17	4.9	7.7	15	20	52	32	23	11	6.8	5.7	2.4	2.3
18	5.0	7.2	14	23	27	29	22	12	6.2	5.6	2.2	1.8
19	5.7	7.7	19	18	22	26	21	11	6.2	6.5	2.1	1.8
20	5.7	16	16	17	20	35	19	9.9	6.0	5.6	2.0	2.3
21	5.3	11	15	16	22	32	17	10	5.8	5.3	1.9	2.5
22	4.8	8.3	20	286	19	26	17	12	5.7	4.9	1.9	2.7
23	4.8	8.1	21	335	18	24	16	11	15	4.9	1.9	2.6
24	4.7	7.9	36	42	18	26	19	9.7	30	5.3	2.5	2.4
25	4.9	8.2	19	30	17	23	23	9.1	42	5.8	3.2	2.3
26	4.8	7.6	22	28	17	22	56	11	27	4.5	2.7	2.3
27	4.6	7.1	21	27	47	21	29	9.8	19	4.6	2.4	2.5
28	4.4	7.3	73	24	41	21	21	8.8	14	4.4	2.3	2.5
29	4.4	7.3	26	36	---	38	18	8.7	14	4.5	2.1	2.8
30	4.5	7.2	19	57	---	26	17	10	12	4.0	1.8	3.0
31	4.6	---	17	43	---	34	---	16	---	3.8	1.8	---
TOTAL	191.3	243.7	730.1	1526	800	1276	815	568.0	357.8	200.8	80.4	69.7
MEAN	6.17	8.12	23.6	49.2	28.6	41.2	27.2	18.3	11.9	6.48	2.59	2.32
MAX	19	17	148	335	60	136	75	138	42	10	3.6	3.1
MIN	3.6	4.5	7.2	16	17	21	16	8.7	5.7	3.8	1.8	1.8
MED	5.1	7.4	17	27	23	32	23	13	7.9	6.1	2.5	2.3
CFSM	.56	.73	2.12	4.43	2.57	3.71	2.45	1.65	1.07	.58	.23	.21
IN.	.64	.82	2.45	5.11	2.68	4.28	2.73	1.90	1.20	.67	.27	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1999, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	10.0	19.1	29.2	25.4	29.2	32.6	26.0	25.8	16.0	9.64	8.25	7.93													
MAX	21.3	46.3	95.7	49.2	78.0	71.3	82.8	134	61.0	19.8	20.9	18.3													
(WY)	1976	1987	1991	1999	1991	1980	1991	1991	1997	1994	1975	1975													
MIN	4.14	4.51	8.41	8.41	12.9	10.3	5.62	6.04	2.85	3.29	2.21	2.32													
(WY)	1979	1982	1982	1986	1986	1982	1986	1981	1988	1988	1981	1999													

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1975 - 1999

	1998 CALENDAR YEAR	1999 WATER YEAR	WATER YEARS 1975 - 1999
ANNUAL TOTAL	6875.8	6858.8	
ANNUAL MEAN	18.8	18.8	19.8
HIGHEST ANNUAL MEAN			45.2
LOWEST ANNUAL MEAN			9.80
HIGHEST DAILY MEAN	150 Jan 7	335 Jan 23	984 May 3 1993
LOWEST DAILY MEAN	2.5 Jul 8	1.8 Aug 30	1.4 Aug 17 1988
ANNUAL SEVEN-DAY MINIMUM	3.2 Jul 2	1.9 Aug 29	1.5 Aug 27 1988
INSTANTANEOUS PEAK FLOW		1040 Jan 22	1510 May 3 1993
INSTANTANEOUS PEAK STAGE		9.88 Jan 22	10.49 May 3 1993
ANNUAL RUNOFF (CFSM)	1.70	1.69	1.78
ANNUAL RUNOFF (INCHES)	23.04	22.99	24.20
10 PERCENT EXCEEDS	36	35	34
50 PERCENT EXCEEDS	13	11	12
90 PERCENT EXCEEDS	4.1	2.5	4.3

02430680 TWENTYMILE CREEK NEAR GUNTOWN, MS

LOCATION.--Lat 34°27'09", long 88°34'38", in SW1/4 SW1/4 sec.21, T.7 S., R.7 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160101, on downstream side of bridge on county road, and 6.0 mi southeast of Baldwin, and 6.0 mi east of Guntown.

DRAINAGE AREA.--131 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1982 to current year. September 1964 to January 1975, discharge measurements only, and February 1975 to June 1977, discharge measurements and gage-height record only, in files of U. S. Army Corps of Engineers. July 1977 to September 1982, gage-height records only, in files of U.S. Geological Survey.

GAGE.--Water-stage recorder and sharp-crested weir since November, 1982. Datum of gage is 280.00 ft above sea level.

REMARKS.--Estimated discharges: Oct. 3-13, Dec. 12-14, Jan. 5-7, 22-25, Feb. 27 - Mar. 2, Apr. 8-14, 16-21, and Sept. 1-23. Records good except for estimated discharges, which are poor. Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharges of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 23	----	*unknown	*unknown				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	3.6	7.4	54	1050	e184	355	51	64	45	4.2	e1.4
2	2.0	3.8	7.7	1470	423	e367	164	44	34	31	3.9	e1.3
3	e1200	3.8	7.6	537	250	1220	135	38	24	24	3.6	e1.2
4	e224	4.0	7.4	120	181	261	1220	35	22	22	3.2	e1.2
5	e32	3.8	7.7	e111	134	163	295	327	19	18	3.0	e1.1
6	e16	3.7	8.4	e118	124	1430	328	3340	16	16	2.7	e1.0
7	e10	3.7	37	e135	270	335	166	283	15	37	2.6	e.97
8	e7.8	4.9	23	1380	172	192	e135	119	14	22	2.6	e.83
9	e6.3	6.6	18	2180	166	1220	e99	78	12	15	2.7	e.83
10	e5.7	9.0	25	323	197	297	e69	60	13	15	2.8	e.75
11	e5.1	12	102	161	137	214	e57	49	13	38	2.8	e.69
12	e4.1	7.1	e4600	119	222	168	e53	43	31	24	2.8	e.65
13	e3.7	5.8	e2190	408	127	5040	e52	371	72	16	2.8	e.62
14	3.9	11	e235	1520	95	1930	e51	66	55	13	2.6	e.57
15	3.6	20	75	237	87	719	219	46	26	11	2.6	e.54
16	3.4	11	51	114	82	366	e74	40	17	10	2.6	e.51
17	3.3	7.9	40	90	195	255	e59	35	14	8.9	2.4	e.47
18	3.4	6.5	33	381	120	201	e53	33	12	8.6	2.4	e.44
19	4.0	6.1	59	113	92	170	e48	30	11	8.6	2.2	e.42
20	4.3	15	58	85	75	204	e43	26	10	8.1	1.9	e.38
21	4.3	17	44	75	71	275	e39	24	10	8.1	1.7	e.35
22	4.2	11	114	e800	66	166	35	28	10	10	1.5	e.34
23	3.7	20	158	e9000	63	149	34	34	192	8.2	1.5	e.34
24	3.4	13	748	e1080	62	142	157	27	1650	7.2	1.5	.35
25	3.4	7.5	155	e300	60	139	295	22	1220	6.6	1.5	.34
26	3.6	7.2	210	205	58	130	1300	26	303	6.0	1.4	.31
27	3.8	6.8	350	158	e86	125	620	27	219	5.5	1.5	.24
28	3.8	6.7	1910	133	e540	122	148	24	71	5.2	1.6	.21
29	3.4	6.9	299	680	---	553	81	21	76	5.0	1.6	.18
30	3.5	6.8	93	1570	---	247	66	22	101	4.8	1.6	.19
31	3.6	---	63	1920	---	582	---	34	---	4.5	1.4	---
TOTAL	1585.5	252.2	11736.2	25577	5205	17566	6450	5403	4346	462.3	73.2	18.72
MEAN	51.1	8.41	379	825	186	567	215	174	145	14.9	2.36	.62
MAX	1200	20	4600	9000	1050	5040	1300	3340	1650	45	4.2	1.4
MIN	2.0	3.6	7.4	54	58	122	34	21	10	4.5	1.4	.18
MED	3.8	6.9	59	237	126	247	90	35	23	10	2.6	.52
CFSM	.39	.06	2.89	6.30	1.42	4.33	1.64	1.33	1.11	.11	.02	.00
IN.	.45	.07	3.33	7.26	1.48	4.99	1.83	1.53	1.23	.13	.02	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1999, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	33.1	206	417	377	453	365	309	315	165	41.9	43.4	17.3						
MAX	97.7	785	1157	898	1195	652	912	1946	773	282	329	80.7						
(WY)	1986	1984	1992	1989	1990	1994	1991	1991	1997	1989	1992	1996						
MIN	1.02	7.36	60.7	19.6	132	114	16.8	11.0	1.09	1.98	1.77	.62						
(WY)	1988	1991	1986	1986	1986	1988	1986	1988	1988	1990	1988	1999						

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1982 - 1999

ANNUAL TOTAL	74225.1	78675.12	
ANNUAL MEAN	203	216	
HIGHEST ANNUAL MEAN			229
LOWEST ANNUAL MEAN			435
HIGHEST DAILY MEAN			66.6
LOWEST DAILY MEAN			1991
HIGHEST SEVEN-DAY MINIMUM	4600	Dec 12	15500
LOWEST SEVEN-DAY MINIMUM	1.1	Jul 8	.00
INSTANTANEOUS PEAK FLOW	1.4	Jul 2	.05
INSTANTANEOUS PEAK STAGE			41500
INSTANTANEOUS LOW FLOW			30.88
ANNUAL RUNOFF (CFSM)	1.55		.00
ANNUAL RUNOFF (INCHES)	21.08		1.75
10 PERCENT EXCEEDS	492		23.74
50 PERCENT EXCEEDS	60		411
90 PERCENT EXCEEDS	3.1		44
			2.2

e Estimated

MOBILE RIVER BASIN

02430680 TWENTYMILE CREEK NEAR GUNTOWN, MS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989-97, 1999 to current year.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
FEB 25...	1300	62	39	6.5
JUN 23...	1645	93	162	41

02430880 CUMMINGS CREEK NEAR FULTON, MS

LOCATION.--Lat 34°18'16", long 88°22'16", in SE1/4 NE1/4 sec.17, T.9 S., R.9 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03170101, in left bank, 20 ft downstream from bridge, on county road, 3.2 mi northeast of Fulton, and 4.2 mi upstream from mouth.

DRAINAGE AREA.--19.1 mi².

PERIOD OF RECORD.--July 1975 to current year.

REVISED RECORDS.--WDR MS-97-1: 1995(M).

GAGE.--Water-stage recorder. Elevation of gage is 295 ft. above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-14, Mar. 16-29, Apr. 4-12, May 12-13, May 27 - Jun. 4, and Aug. 4-14, 30-31. Records good except for estimated daily discharges, which are poor. Satellite telemeter U.S. Army Corps of Engineers radio telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e9.0	11	13	28	55	30	39	33	e26	17	8.7	5.3
2	e10	13	13	84	47	59	33	34	e11	14	8.2	5.3
3	e27	13	13	57	44	105	32	52	e12	13	7.7	5.4
4	e15	13	13	37	41	50	e80	36	e11	11	e7.7	5.2
5	e12	13	13	30	39	41	e32	27	13	11	e7.6	5.3
6	e11	13	12	31	41	67	e50	27	12	11	e7.5	5.3
7	e25	13	29	31	46	42	e28	23	12	15	e7.4	5.0
8	e12	20	28	61	38	38	e24	21	11	32	e7.3	5.4
9	e10	18	20	106	47	93	e23	20	11	24	e7.2	8.3
10	e9.6	31	22	48	80	50	e23	19	27	19	e7.1	6.3
11	e9.2	20	35	37	44	45	e25	19	20	57	e7.0	5.7
12	e9.0	15	194	33	64	39	e23	e45	17	41	e7.1	5.6
13	e8.8	14	87	43	43	129	28	e60	15	24	e7.0	5.7
14	e8.6	41	37	82	36	107	27	35	17	19	e6.9	5.7
15	9.3	32	26	44	34	68	61	27	19	17	6.3	5.1
16	10	18	22	36	33	e32	37	23	14	16	6.3	5.1
17	10	15	20	32	65	e31	29	21	12	14	6.1	5.1
18	10	14	18	35	44	e25	27	19	11	15	6.0	5.2
19	12	14	30	29	35	e24	26	31	11	15	5.7	6.3
20	13	23	23	27	32	e37	25	28	11	13	5.6	13
21	11	19	20	27	31	e29	24	20	10	12	5.7	8.3
22	11	16	35	209	29	e24	22	18	10	12	5.9	7.6
23	11	15	35	263	29	e22	22	17	25	11	5.9	6.8
24	11	14	64	77	30	e27	22	16	58	11	7.0	6.5
25	11	14	33	59	30	e23	23	17	45	11	7.5	6.4
26	11	14	35	49	28	e21	33	19	50	11	6.5	6.3
27	11	13	32	42	40	e20	68	e11	35	10	6.2	7.3
28	11	13	102	38	50	e22	53	e13	22	11	6.0	6.8
29	11	13	49	49	---	e61	23	e12	19	11	5.9	7.4
30	11	13	35	79	---	38	21	e11	27	9.5	e6.6	8.1
31	11	---	29	73	---	52	---	e14	---	9.0	e6.7	---
TOTAL	361.5	508	1137	1876	1175	1451	983	768	594	516.5	210.3	190.8
MEAN	11.7	16.9	36.7	60.5	42.0	46.8	32.8	24.8	19.8	16.7	6.78	6.36
MAX	27	41	194	263	80	129	80	60	58	57	8.7	13
MIN	8.6	11	12	27	28	20	21	11	10	9.0	5.6	5.0
MED	11	14	29	43	40	38	27	21	14	13	6.9	5.7
CFSM	.61	.89	1.92	3.17	2.20	2.45	1.72	1.30	1.04	.87	.36	.33
IN.	.70	.99	2.21	3.65	2.29	2.83	1.91	1.50	1.16	1.01	.41	.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1999, BY WATER YEAR (WY)

	MEAN	18.1	31.3	44.2	41.4	47.6	51.9	43.9	41.8	25.9	17.3	14.8	15.8
MAX	42.6	71.4	135	80.6	106	116	108	173	75.0	38.1	38.1	37.0	
(WY)	1976	1987	1991	1979	1991	1980	1983	1991	1997	1989	1975	1975	
MIN	8.35	13.4	18.2	16.5	23.0	23.5	13.3	10.3	5.34	5.55	4.03	4.05	
(WY)	1997	1982	1982	1986	1986	1982	1986	1988	1988	1988	1988	1986	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1975 - 1999

ANNUAL TOTAL	8639.8	9771.1	
ANNUAL MEAN	23.7	26.8	32.6
HIGHEST ANNUAL MEAN			65.0
LOWEST ANNUAL MEAN			17.2
HIGHEST DAILY MEAN	194	Dec 12	1200
LOWEST DAILY MEAN	6.0	Jul 18	2.1
ANNUAL SEVEN-DAY MINIMUM	7.7	Aug 28	2.8
INSTANTANEOUS PEAK FLOW			2350
INSTANTANEOUS PEAK STAGE			12.71
ANNUAL RUNOFF (CFSM)	1.24		1.71
ANNUAL RUNOFF (INCHES)	16.83		23.20
10 PERCENT EXCEEDS	48		59
50 PERCENT EXCEEDS	17		22
90 PERCENT EXCEEDS	8.6		9.1

e Estimated

MOBILE RIVER BASIN

02431000 TOMBIGBEE RIVER NEAR FULTON, MS

LOCATION.--Lat 34°15'54", long 88°26'43", in SW1/4 SE1/4 sec.27, T.9 S., R.8 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, on left bank at downstream side of bridge on old U.S. Highway 78, 1,000 ft downstream from Twenty-mile-Fulton Canal, 2.2 mi west of Fulton, 6.2 mi upstream from Mantachie Creek Canal, 13.5 mi downstream from Twenty-mile Creek Canal, and at mile 421.8.

DRAINAGE AREA.--612 mi², prior to construction of Tennessee-Tombigbee Waterway.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to current year. Prior to October 1966, published as East Fork Tombigbee River near Fulton. Daily mean gage heights published since October 1971. Gage-height records collected at site 800 ft upstream 1909-12 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1032: 1944. WRD Miss. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 242.93 ft above sea level. Prior to Oct. 27, 1934, nonrecording gage at bridge 200 ft upstream, and Oct. 27, 1934 to Aug. 22, 1939, nonrecording gage at present site, all at present datum.

REMARKS.--Estimated daily discharges: Dec. 23-26, May 13-18, Jun. 28-29, and Jul. 2. Records good except for estimated daily discharge, which are poor. Some regulation by Tennessee-Tombigbee Waterway since 1985. Statistics shown below are for water years 1985 to the current year, except for instantaneous extremes, which are shown for the entire period of record. Telemeter, satellite telemeter, and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 23	2100	*30,100	*21.42	Mar. 14	1500	8,260	18.06

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	185	162	1330	4210	1870	1290	687	336	526	137	128
2	123	184	137	1270	3450	1710	1130	531	359	e450	131	129
3	418	190	151	2000	2370	2710	976	450	306	331	128	128
4	783	189	172	1830	1860	2950	1390	403	279	286	129	130
5	296	187	170	1590	1400	2270	1800	402	249	244	127	133
6	175	187	174	1260	1050	2180	1630	2550	229	214	129	131
7	148	188	191	902	922	2410	1450	4140	213	254	132	127
8	139	197	253	880	974	1950	1110	3080	204	257	143	131
9	142	202	217	2760	824	2160	855	2100	192	214	148	136
10	166	209	196	4410	998	2270	684	1380	194	201	145	134
11	156	192	269	3200	973	1900	586	937	195	303	138	133
12	136	144	1140	1960	1060	1590	511	623	190	362	138	134
13	136	135	4100	1570	1100	2120	452	e635	217	232	143	132
14	140	175	4760	2170	966	8000	420	e600	225	189	135	132
15	139	222	3030	3580	830	6900	718	e520	241	175	131	129
16	142	237	1910	2950	695	4140	744	e470	214	168	131	130
17	125	209	1150	2040	777	2500	568	e450	192	158	131	129
18	114	191	615	1740	917	1880	511	e420	182	156	135	130
19	114	185	450	1530	801	1430	477	396	174	157	137	130
20	125	190	502	1150	724	1130	442	328	171	156	139	131
21	162	223	447	890	634	1140	407	287	174	151	138	133
22	150	230	459	1120	561	991	377	272	171	154	140	134
23	130	204	e600	17100	506	842	336	271	181	151	136	136
24	148	202	e1250	21200	470	738	313	268	753	152	133	133
25	177	200	e1720	7600	439	675	591	244	2140	150	135	135
26	182	186	e1100	3600	437	601	1010	240	2190	149	132	132
27	181	182	1130	2140	442	545	1780	239	1780	167	134	133
28	184	184	1720	1660	1760	508	1620	239	e1400	153	131	132
29	185	184	2730	1340	---	619	1300	228	e900	146	132	130
30	186	181	2270	2030	---	1020	977	223	587	143	130	134
31	186	---	1800	2880	---	866	---	249	---	138	128	---
TOTAL	5709	5774	34975	101682	32150	62615	26455	23862	14838	6687	4176	3949
MEAN	184	192	1128	3280	1148	2020	882	770	495	216	135	132
MAX	783	237	4760	21200	4210	8000	1800	4140	2190	526	148	136
MIN	114	135	137	880	437	508	313	223	171	138	127	127
CFSM	.30	.31	1.84	5.36	1.88	3.30	1.44	1.26	.81	.35	.22	.22
IN.	.35	.35	2.13	6.18	1.95	3.81	1.61	1.45	.90	.41	.25	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

	MEAN	217	569	1415	1445	1777	1641	980	1108	790	299	256	164
MAX	382	2056	4885	3280	4652	2771	3244	7724	3164	1232	931	408	
(WY)	1990	1987	1992	1999	1990	1995	1991	1997	1989	1992	1992	1992	
MIN	105	147	293	152	442	540	165	148	92.6	113	82.8	82.0	
(WY)	1988	1991	1986	1986	1986	1985	1986	1988	1988	1986	1987	1986	

SUMMARY STATISTICS

	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1985 - 1999	
ANNUAL TOTAL	273339		322872			
ANNUAL MEAN	749		885			
HIGHEST ANNUAL MEAN					885	
LOWEST ANNUAL MEAN					1837	
HIGHEST DAILY MEAN	6820	Feb 18	21200	Jan 24	55100	May 27 1991
LOWEST DAILY MEAN	95	Jun 29	114	Oct 18	33	Oct 5 1984
ANNUAL SEVEN-DAY MINIMUM	97	Jun 27	128	Oct 14	36	Oct 1 1984
INSTANTANEOUS PEAK FLOW			30100	Jan 23	82200	Mar 22 1955
INSTANTANEOUS PEAK STAGE			21.42	Jan 23	27.72	May 27 1991
ANNUAL RUNOFF (CFSM)	1.22		1.45		1.45	
ANNUAL RUNOFF (INCHES)	16.61		19.63		19.64	
10 PERCENT EXCEEDS	1900		2130		1870	
50 PERCENT EXCEEDS	284		271		348	
90 PERCENT EXCEEDS	124		132		114	

e Estimated

MOBILE RIVER BASIN

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02431000 TOMBIGBEE RIVER NEAR FULTON, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.35	7.81	7.60	14.23	17.00	15.07	13.42	10.61	8.52	9.72	7.30	7.25
2	7.37	7.80	7.34	14.06	16.69	14.68	12.86	9.84	8.67	---	7.25	7.26
3	9.20	7.85	7.48	16.08	15.95	16.18	12.26	9.37	8.31	8.58	7.23	7.26
4	11.43	7.85	7.69	15.87	15.03	16.46	13.65	9.08	8.11	8.28	7.25	7.28
5	8.84	7.83	7.68	15.30	13.79	15.81	14.89	9.05	7.89	7.97	7.24	7.31
6	7.87	7.83	7.71	14.25	12.59	15.67	14.46	15.23	7.73	7.73	7.26	7.30
7	7.60	7.84	7.86	12.86	12.09	16.00	13.94	16.98	7.60	8.06	7.29	7.25
8	7.50	7.91	8.38	12.67	12.29	15.26	12.72	16.51	7.52	8.10	7.41	7.29
9	7.51	7.96	8.09	16.29	11.68	15.64	11.68	15.52	7.42	7.77	7.46	7.35
10	7.75	8.02	7.91	17.07	12.37	15.82	10.92	13.58	7.44	7.67	7.43	7.32
11	7.64	7.87	8.51	16.71	12.29	15.16	10.43	11.54	7.44	8.37	7.35	7.31
12	7.42	7.41	12.38	15.81	12.60	14.35	10.03	10.15	7.40	8.86	7.36	7.32
13	7.41	7.32	16.90	14.80	12.78	15.03	9.68	---	7.62	7.97	7.41	7.30
14	7.44	7.71	17.18	15.89	12.26	18.00	9.48	---	7.69	7.61	7.33	7.30
15	7.42	8.13	16.46	16.83	11.71	17.75	10.97	---	7.83	7.49	7.29	7.28
16	7.44	8.26	15.12	16.57	11.12	16.96	11.09	---	7.61	7.43	7.28	7.29
17	7.24	8.03	12.90	15.72	11.46	16.08	10.25	---	7.41	7.35	7.28	7.28
18	7.11	7.86	10.72	14.97	12.07	15.09	9.94	---	7.32	7.34	7.32	7.28
19	7.10	7.81	9.86	14.33	11.59	13.85	9.73	8.90	7.25	7.36	7.34	7.29
20	7.21	7.85	10.15	13.05	11.25	12.86	9.52	8.46	7.22	7.37	7.37	7.29
21	7.59	8.14	9.84	12.02	10.83	12.91	9.30	8.18	7.25	7.33	7.36	7.31
22	7.47	8.20	9.91	12.54	10.47	12.36	9.10	8.07	7.22	7.37	7.38	7.33
23	7.26	7.98	---	19.38	10.18	11.76	8.81	8.06	7.32	7.35	7.33	7.35
24	7.45	7.96	---	20.10	9.98	11.31	8.64	8.04	10.54	7.37	7.31	7.31
25	7.74	7.94	---	17.91	9.80	11.02	10.15	7.85	15.58	7.36	7.32	7.34
26	7.78	7.82	---	16.73	9.79	10.67	12.00	7.81	15.71	7.36	7.30	7.31
27	7.77	7.79	13.19	15.60	9.82	10.39	14.85	7.81	14.86	7.55	7.31	7.32
28	7.80	7.80	14.91	14.53	14.69	10.19	14.44	7.81	---	7.42	7.28	7.30
29	7.81	7.80	16.54	13.59	---	10.71	13.40	7.72	---	7.37	7.30	7.29
30	7.82	7.77	16.23	15.34	---	12.45	11.89	7.68	10.02	7.35	7.27	7.32
31	7.82	---	15.50	16.39	---	11.85	---	7.88	---	7.31	7.25	---
MEAN	7.75	7.87	---	15.40	12.29	14.11	11.48	---	---	---	7.32	7.30
MAX	11.43	8.26	---	20.10	17.00	18.00	14.89	---	---	---	7.46	7.35
MIN	7.10	7.32	---	12.02	9.79	10.19	8.64	---	---	---	7.23	7.25

MOBILE RIVER BASIN

02431000 TOMBIGBEE RIVER NEAR FULTON, MS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1962-65, 1972-85, 1989 to current year.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT					
21...	0915	163	71	31	--
JAN					
05...	1700	1540	142	590	--
09...	1230	2450	631	4170	--
09...	1550	3300	644	5740	64
09...	2230	4400	436	5180	30
11...	1220	3130	218	1840	37
12...	0830	1980	128	684	--
FEB					
24...	1000	472	40	51	--
MAR					
31...	1430	820	77	170	--
MAY					
13...	1200	706	160	305	--
JUN					
24...	1200	1820	233	1140	--
25...	1345	2260	689	4200	--
25...	1800	2380	522	3350	82
26...	1445	2280	195	1200	--
27...	1000	1670	156	703	--
AUG					
05...	1300	126	36	12	--
SEP					
14...	1240	132	42	15	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)
JAN										
09...	2230	4	8	12	18	24	30	42	94	100
JUN										
25...	1800	18	30	40	60	78	82	90	100	--

02432500 BULL MOUNTAIN CREEK AT TREMONT, MS

LOCATION.--Lat 34°14'20", long 88°16'15", in NE1/4 SW1/4 sec.5, T.10 S., R.10 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, on left bank at downstream side of bridge on U.S. Highway 78, 0.7 mi northwest of Tremont, 1.5 mi upstream from Johns Creek, 1.5 mi upstream from Cypress Creek, 8.0 mi southeast of Fulton, and 27.2 mi upstream from the mouth.

DRAINAGE AREA.--136 mi².

PERIOD OF RECORD.--October 1943 to September 1964, October 1973 to current year (low-water records only).

GAGE.--Water-stage recorder. Datum of gage is 317.39 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to July 22, 1949, staff gage at same site and datum.

REMARKS.--Estimated daily discharges: May 9-13. Records good except for estimated daily discharges, which are poor. Discharges over 200 ft³/s not determined. Satellite telemeter at station.

AVERAGE DISCHARGE.--21 years (water years 1944-64), 212 ft³/s, 21.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.06 ft, Apr. 6, 1983 (discharge not determined), minimum discharge, 3.6 ft³/s, Aug. 19, 1988, gage height, 1.84 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of March 1973 reached a stage of 13.1 ft from floodmark by U. S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge not determined, maximum gage height 7.94 ft, Jan. 24, minimum discharge, 11 ft³/s, Jul 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	33	38	194	---	---	---	83	69	96	14	13
2	25	34	38	---	---	181	---	75	68	68	14	13
3	28	34	38	---	---	---	---	70	61	55	14	13
4	57	36	38	---	---	---	---	62	57	47	14	13
5	43	38	38	---	---	---	---	58	51	41	16	13
6	34	37	39	199	---	---	---	---	48	38	14	13
7	41	35	41	179	---	---	---	---	44	55	14	13
8	101	35	61	---	---	---	---	---	43	57	14	14
9	71	40	88	---	194	---	---	e192	44	61	13	14
10	45	49	85	---	---	---	---	e182	42	45	14	24
11	38	53	96	---	---	---	193	e158	42	93	15	18
12	36	56	---	---	---	---	171	e149	40	---	14	14
13	35	48	---	---	---	---	146	e140	39	113	14	13
14	34	46	---	---	---	---	137	139	40	58	13	13
15	34	149	---	---	---	---	189	110	110	37	12	14
16	34	140	---	---	194	---	---	97	96	27	13	15
17	33	75	176	---	200	---	---	177	88	58	20	13
18	33	54	157	---	---	---	---	152	83	48	16	13
19	33	47	151	---	---	---	---	144	81	42	15	13
20	33	44	183	190	192	---	---	136	76	39	13	13
21	34	50	159	171	173	---	---	130	74	37	14	13
22	32	59	163	197	163	---	---	124	74	35	12	13
23	31	55	201	---	151	---	---	117	71	35	12	12
24	32	49	---	---	146	---	---	115	71	72	11	13
25	33	46	---	---	139	187	---	128	63	132	12	13
26	33	45	---	---	133	171	---	127	58	118	14	13
27	33	44	---	---	131	155	---	150	62	141	16	14
28	34	42	---	---	---	147	---	151	63	129	14	14
29	34	41	---	---	---	159	---	114	58	84	13	14
30	33	39	---	---	---	---	---	95	61	94	13	14
31	32	---	---	---	---	---	---	69	---	13	13	---
TOTAL	1174	1553	---	---	---	---	---	---	1958	---	420	421
MEAN	37.9	51.8	---	---	---	---	---	---	65.3	---	13.5	14.0
MAX	101	149	---	---	---	---	---	---	141	---	16	24
MIN	25	33	---	---	---	---	---	---	35	---	12	13
MED	34	46	---	---	---	---	---	---	50	---	14	14
CFSM	.28	.38	---	---	---	---	---	---	.48	---	.10	.10
IN.	.32	.42	---	---	---	---	---	---	.54	---	.11	.12

e Estimated

MOBILE RIVER BASIN

02433500 TOMBIGBEE RIVER AT BIGBEE, MS

LOCATION.--Lat 34°00'41", long 88°30'49", in SW1/4 NE1/4 sec.25, T.12 S., R.7 E., Chickasaw Meridian, Monroe County, Hydrologic Unit 03160101, near right bank on downstream side of bridge on State Highway 6, 0.2 mi upstream from St. Louis-San Francisco Railway bridge, 0.5 mi southeast of Bigbee, 2 mi northwest of Amory, 3.7 mi upstream from Town Creek, and at mile 383.1.

DRAINAGE AREA.--1,226 mi², prior to construction of Tennessee-Tombigbee Waterway.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to September 1954, October 1963 to current year. Daily mean gage heights published since October 1985. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1966, published as East Fork Tombigbee River at Bigbee.

REVISED RECORDS.--WSP 1304: 1946, 1948. WRD Miss. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 190.00 ft above sea level (levels by U. S. Army Corps of Engineers) Prior to Sept. 9, 1949, nonrecording gage at same site and datum. Water-stage recorder for Tombigbee River near Amory (Station 02437000), 4.0 mi downstream, used as an auxiliary gage for this station.

REMARKS.--Estimated daily discharges: Apr. 24-26, May 23 - Jun. 21, 24-29 and Aug. 14-17. Records good except for periods of estimated daily discharges, which are poor. Some regulation by Tennessee-Tombigbee Waterway since 1985. Statistics shown below are for water years 1985 to the current year, except for instantaneous extremes, which are shown for the entire period of record. Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of 1973 reached a stage of 27.64 ft and a discharge of 112,000 ft³/s and was the highest since at least 1890. The flood of Mar. 23, 1955, reached a stage of 26.2 ft, from floodmark, discharge, 73,000 ft³/s. Flood of December 1926 reached a stage of 24.2 ft from information by U. S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec. 13	0330	12,300	14.64	Mar. 16	0445	14,600	15.51
Jan. 25	0845	*35,400	*20.50				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	361	514	3770	7300	2610	1860	1270	e520	1060	300	267
2	253	362	335	4150	6250	2820	2230	1330	e440	759	293	263
3	779	362	297	5440	6460	8510	1680	780	e520	832	277	262
4	1170	367	289	3780	4990	5700	3590	971	e530	538	269	260
5	941	364	313	3930	3950	5280	2740	809	e425	455	263	273
6	580	361	310	3660	2310	7610	3930	7040	e400	412	269	282
7	444	365	484	2400	2020	5410	3420	4650	e380	660	261	277
8	403	392	524	2450	1800	4610	2710	5680	e370	1060	259	279
9	357	403	441	7440	2120	6470	2120	5840	e360	698	277	287
10	345	915	556	5460	4350	4930	2050	3730	e350	756	292	278
11	363	443	1190	5030	3330	4460	1170	2670	e350	1020	285	268
12	359	384	4250	5660	4210	3860	1500	1440	e350	2620	278	269
13	335	331	9380	4300	2930	6090	859	1160	e440	1330	276	276
14	321	395	4570	5590	2850	11000	972	1080	e410	951	e263	271
15	321	906	5280	4360	1950	11600	2570	897	e420	469	e255	253
16	322	646	4890	4310	1900	13900	1630	827	e430	405	e245	246
17	326	617	3600	5200	2090	9680	1820	522	e400	354	e240	240
18	310	691	2020	4660	2370	6460	1440	486	e380	330	235	245
19	286	559	1290	2910	2030	4210	1010	471	e350	386	230	250
20	274	373	929	2960	1640	3420	761	468	e320	330	231	253
21	272	383	1050	1890	1670	3020	703	480	e300	323	264	245
22	315	403	1480	3510	1060	2390	648	914	265	318	271	244
23	320	417	1170	22000	1330	2050	606	e675	286	316	269	251
24	293	391	4900	26200	773	1920	e4700	e475	e1180	314	276	276
25	296	378	3060	33000	1240	1460	e7200	e450	e6050	317	279	272
26	335	378	2650	18600	864	1570	e5200	e475	e7000	309	276	277
27	353	365	2370	9560	1000	1230	e2470	e430	e5250	300	275	281
28	352	355	5490	5430	3770	1130	2270	e415	e3900	318	275	280
29	350	354	5100	3860	---	1770	2800	e410	e2500	314	277	280
30	360	349	4170	5320	---	1830	2050	e415	2420	415	280	266
31	362	---	4370	7750	---	2260	---	e500	---	317	273	---
TOTAL	12348	13370	77272	224680	78557	149260	68709	47760	37296	18986	8313	7971
MEAN	398	446	2493	7248	2806	4815	2290	1541	1243	612	268	266
MAX	1170	915	9380	33000	7300	13900	7200	7040	7000	2620	300	287
MIN	251	331	289	1890	773	1130	606	410	265	300	230	240
MED	335	380	1480	4660	2100	4210	2050	809	415	412	273	268
CFSM	.32	.36	2.03	5.91	2.29	3.93	1.87	1.26	1.01	.50	.22	.22
IN.	.37	.41	2.34	6.82	2.38	4.53	2.08	1.45	1.13	.58	.25	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	519	1088	2948	2976	3658	3596	2252	2553	1701	678	478	489			
MAX	919	3666	9297	7248	9187	6211	7958	17810	8068	1900	897	1770			
(WY)	1985	1987	1991	1999	1991	1995	1991	1991	1997	1989	1993	1993			
MIN	247	341	593	343	858	925	382	331	242	283	219	209			
(WY)	1988	1991	1986	1986	1986	1988	1986	1988	1988	1988	1987	1986			

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1985 - 1999
ANNUAL TOTAL	599391	744522	
ANNUAL MEAN	1642	2040	1904
HIGHEST ANNUAL MEAN			4530
LOWEST ANNUAL MEAN			613
HIGHEST DAILY MEAN	11400	33000	89500
LOWEST DAILY MEAN	168	230	54
ANNUAL SEVEN-DAY MINIMUM	213	243	83
INSTANTANEOUS PEAK FLOW		35400	101000
INSTANTANEOUS PEAK STAGE		20.50	27.49
INSTANTANEOUS LOW FLOW		222	102
ANNUAL RUNOFF (CFSM)	1.34	1.66	1.55
ANNUAL RUNOFF (INCHES)	18.19	22.59	21.10
10 PERCENT EXCEEDS	4620	5280	4180
50 PERCENT EXCEEDS	696	646	759
90 PERCENT EXCEEDS	268	272	264

e Estimated

02433500 TOMBIGBEE RIVER AT BIGBEE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.62	3.83	4.15	8.86	12.04	7.58	6.38	5.49	---	5.21	3.72	3.59
2	3.63	3.83	3.75	9.21	11.31	7.85	6.94	5.58	---	4.77	3.70	3.57
3	4.57	3.83	3.64	10.54	11.47	12.73	6.10	4.81	---	4.88	3.65	3.57
4	5.23	3.84	3.62	8.89	10.16	10.81	8.60	5.07	---	4.36	3.62	3.56
5	4.91	3.83	3.69	9.05	9.07	10.44	7.63	4.82	---	4.19	3.60	3.61
6	4.32	3.83	3.68	8.75	7.23	12.15	9.05	11.73	---	4.07	3.62	3.64
7	4.04	3.84	4.07	7.16	6.85	10.51	8.47	9.80	---	4.58	3.60	3.62
8	3.94	3.91	4.20	7.19	6.55	9.77	7.59	10.78	---	5.22	3.59	3.63
9	3.82	3.94	4.03	12.02	6.98	11.40	6.78	10.96	---	4.66	3.64	3.64
10	3.78	4.78	4.18	10.58	9.47	10.09	6.65	8.81	---	4.74	3.69	3.61
11	3.83	4.03	5.24	10.19	8.42	9.61	5.36	7.58	---	5.12	3.67	3.58
12	3.82	3.89	8.46	10.79	9.35	8.97	5.86	5.86	---	7.39	3.64	3.58
13	3.75	3.74	13.14	9.46	7.98	10.81	4.93	5.47	---	5.51	3.64	3.61
14	3.71	3.89	9.73	10.69	7.88	14.11	5.09	5.36	---	4.98	---	3.59
15	3.71	4.83	10.44	9.52	6.75	14.33	7.35	5.09	---	4.16	---	3.53
16	3.72	4.39	10.05	9.45	6.69	15.24	6.03	4.98	---	4.01	---	3.51
17	3.73	4.36	8.68	10.36	6.95	13.43	6.32	4.46	---	3.88	---	3.49
18	3.68	4.44	6.59	9.80	7.32	11.41	5.75	4.38	---	3.81	3.46	3.50
19	3.61	4.20	5.53	7.85	6.87	9.34	5.14	4.35	---	3.95	3.48	3.52
20	3.57	3.86	5.03	7.91	6.33	8.47	4.78	4.34	---	3.81	3.47	3.53
21	3.56	3.88	5.20	6.41	6.36	7.98	4.68	4.36	---	3.79	3.59	3.50
22	3.70	3.94	5.84	8.15	5.53	7.15	4.58	5.11	3.67	3.78	3.61	3.50
23	3.71	3.97	5.37	17.60	5.90	6.68	4.51	---	3.74	3.77	3.60	3.51
24	3.63	3.91	10.00	18.66	5.11	6.48	---	---	---	3.76	3.63	3.60
25	3.64	3.87	8.02	20.06	5.78	5.77	---	---	---	3.77	3.64	3.59
26	3.75	3.87	7.51	16.67	5.24	5.95	---	---	---	3.75	3.63	3.60
27	3.80	3.84	7.11	13.43	5.42	5.44	7.27	---	---	3.72	3.62	3.61
28	3.80	3.81	10.21	10.55	8.89	5.31	6.98	---	---	3.78	3.62	3.61
29	3.80	3.81	10.16	8.96	---	6.24	7.71	---	---	3.76	3.63	3.61
30	3.82	3.79	9.31	10.45	---	6.34	6.64	---	7.17	4.01	3.63	3.56
31	3.83	---	9.52	12.35	---	6.98	---	---	---	3.77	3.61	---
MEAN	3.87	3.99	6.78	10.70	7.64	9.33	---	---	---	4.35	---	3.57
MAX	5.23	4.83	13.14	20.06	12.04	15.24	---	---	---	7.39	---	3.64

MOBILE RIVER BASIN

02433500 TOMBIGBEE RIVER AT BIGBEE, MS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-71, 1989 to current year.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
JAN 07...	1200	2250	74	450
FEB 25...	1200	1130	39	119
APR 08...	1515	2770	68	509

02435020 TOWN CREEK AT EASON BOULEVARD AT TUPELO, MS

LOCATION.--Lat 34°14'06", long 88°41'40", in NE1/4 NW1/4 sec.8, T.10 S., R.6 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160102, on left bank at downstream side of bridge on Eason Boulevard in Tupelo, 400 ft upstream from Kings Creek, 0.2 mi downstream from Mud Creek, 0.4 mi downstream from St. Louis and San Francisco Railroad, 2.0 mi upstream from Tulip Creek, and 22.8 mi upstream from mouth.

DRAINAGE AREA.--233 mi², includes that of Kings Creek.

PERIOD OF RECORD.--October 1970 to current year. Daily mean gage heights published since October 1971.

REVISED RECORDS.--WDR MS 80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 230.00 ft above sea level.

REMARKS.--Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station

Note.--Records for 1999 Water Year will be published in a subsequent report.

MOBILE RIVER BASIN

02436500 TOWN CREEK NEAR NETTLETON, MS

LOCATION.--Lat 34°03'33", long 88°37'43", in NW1/4 NW1/4 sec.12, T.12 S., R.6 E., Chickasaw Meridian, Monroe County, Hydrologic Unit 03160102, near right bank on upstream side of upstream bridge on U.S. Highway 45, 1.5 mi downstream from Chiwapa Creek, 2.1 mi south of Nettleton, and 9.2 mi upstream from mouth.

DRAINAGE AREA. -- 620 mi².

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October and November 1939, published in WSP 1304. Prior to October 1970, published as West Fork Tombigbee River near Nettleton.

REVISED RECORDS.--WSP 1504: 1948. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 194.01 ft above sea level (levels by U. S. Army Corps of Engineers).
Prior to Oct. 1, 1947, at datum 10.00 ft higher.

REMARKS.--Estimated daily discharges: Oct. 22 - Nov. 8. Records fair except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1892, that of Mar. 22, 1955. Flood of Dec. 24, 1926, reached a stage of 32.5 ft, present datum, from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec. 12	0745	16,200	23.94	Mar. 13	1100	15,900	23.11
Jan. 23	0045	*37,000	*28.69	Apr. 24	1730	18,600	25.23

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	e29	43	612	2970	1200	1040	806	169	943	60	25
2	28	e29	43	5420	1860	5410	727	612	131	651	55	26
3	1430	e29	44	2160	1370	6610	1060	514	174	477	55	25
4	305	e29	44	1010	1060	2280	4800	439	182	361	49	25
5	102	e30	43	704	823	2380	1690	2440	103	303	47	27
6	69	e30	44	623	711	5780	3590	5640	85	251	45	27
7	59	e30	150	600	777	2020	1500	1860	78	718	44	29
8	61	e30	165	5380	654	2970	1040	1170	72	791	43	28
9	53	36	124	6090	1320	4380	834	811	66	588	45	27
10	47	77	281	1990	4530	1780	663	625	65	481	45	28
11	43	64	653	1290	1540	1260	553	512	64	1020	41	25
12	39	41	11700	986	1950	1040	455	416	265	1010	39	25
13	37	37	3310	1760	887	11600	403	390	180	304	36	25
14	40	797	1200	4120	646	6380	846	334	229	217	34	24
15	40	286	678	1590	557	3040	2500	281	266	192	33	23
16	39	108	478	1040	511	2070	749	249	132	161	31	22
17	38	72	386	821	1750	1590	504	227	89	139	31	23
18	37	57	337	1170	986	1250	418	228	70	127	31	23
19	38	52	450	767	682	1010	376	199	60	119	30	23
20	39	112	379	623	542	1360	332	176	53	105	29	22
21	37	98	334	553	466	1270	296	168	47	101	28	23
22	e32	66	1030	13400	425	869	268	170	47	96	28	24
23	e29	57	2740	23700	402	740	249	172	2390	86	27	23
24	e29	51	3400	5760	374	703	10600	144	7830	83	30	23
25	e28	49	940	3410	361	633	4350	128	8580	75	39	23
26	e28	45	726	2520	362	561	7680	141	4590	94	35	23
27	e28	42	1080	2000	2750	512	2790	130	2640	94	32	22
28	e28	41	6740	1570	2890	487	1760	119	1560	80	30	23
29	e28	42	1860	4200	---	1280	1340	112	1350	74	28	28
30	e29	41	1030	7650	---	850	1070	111	2340	69	27	26
31	e29	---	719	8390	---	1380	---	167	---	63	25	---
TOTAL	2898	2507	41151	111909	34156	74695	54483	19491	33907	9873	1152	740
MEAN	93.5	83.6	1327	3610	1220	2410	1816	629	1130	318	37.2	24.7
MAX	1430	797	11700	23700	4530	11600	10600	5640	8580	1020	60	29
MIN	28	29	43	553	361	487	249	111	47	63	25	22
CFSM	.15	.13	2.14	5.82	1.97	3.89	2.93	1.01	1.82	.51	.06	.04
IN.	.17	.15	2.47	6.71	2.05	4.48	3.27	1.17	2.03	.59	.07	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

MEAN	152	707	1407	1720	1960	2171	1543	1019	510	371	175	203
MAX	1043	6074	8062	6105	5740	6215	5434	8377	3924	2512	1381	2208
(WY)	1976	1958	1983	1949	1948	1975	1991	1991	1997	1940	1967	1958
MIN	3.97	14.7	40.3	66.6	323	240	105	63.6	19.0	22.4	7.12	5.39
(WY)	1944	1954	1966	1956	1978	1954	1986	1943	1988	1942	1954	1954

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1940 - 1999
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ANNUAL TOTAL	297749			386962				
ANNUAL MEAN	816			1060			990	
HIGHEST ANNUAL MEAN							2342	1991
LOWEST ANNUAL MEAN							306	1954
HIGHEST DAILY MEAN	15000	Feb 17		23700	Jan 23		95300	Mar 22 1955
LOWEST DAILY MEAN	23	Sep 29		22	Sep 16		1.0	Sep 14 1942
ANNUAL SEVEN-DAY MINIMUM	25	Sep 24		23	Sep 15		1.6	Oct 8 1942
INSTANTANEOUS PEAK FLOW				37000	Jan 23		151000	Mar 22 1955
INSTANTANEOUS PEAK STAGE				28.69	Jan 23		33.88	Mar 22 1955
ANNUAL RUNOFF (CFSM)	1.32			1.71			1.60	
ANNUAL RUNOFF (INCHES)	17.86			23.22			21.70	
10 PERCENT EXCEEDS	2040			2770			2160	
50 PERCENT EXCEEDS	213			251			202	
90 PERCENT EXCEEDS	30			28			21	

e Estimated

02437100 TOMBIGBEE RIVER AT ABERDEEN LOCK AND DAM AT ABERDEEN, MS

LOCATION.--Lat. 33°49'48", long 88°31'12" in NE1/4 SW1/4 sec. 22, T.14 S., R.19 W., Huntsville Meridian, Hydrologic Unit 03160101, Monroe County, 0.85 mi upstream from (02437500) Tombigbee River at Aberdeen and at mile 362.98.

DRAINAGE AREA.--2,047 mi², prior to construction of Tennessee-Tombigbee Waterway.

PERIOD OF RECORD.--August 1928 to September 1958, October 1958 to September 1971 (annual maximums only), October 1971 to September 1982, May 1984 to current year. Prior to October 1982, published as "02437500 Tombigbee River at Aberdeen." Daily mean gage-heights published from October 1971 to September 1982. Gage-height records collected at site 0.45 mi upstream since 1909 are contained in reports of National Weather Service.

GAGE.--Water-stage, gate-position, and lockage recorder. Datum of gage is 150 ft above national Geodetic Vertical Datum of 1929 (levels by U. S. Army Corps of Engineers). Prior to October 1, 1982, water-stage recorder at site 0.85 mi downstream at datum 4.71 ft higher (see 02437500 Tombigbee River at Aberdeen, MS).

REMARKS.--No estimated daily discharges. Records fair above 1,000 ft³/s and poor below due to variable backwater from Columbus Lock and Dam. Regulation for maintenance of navigational pool only since May 1984. Statistics shown below are for water years 1984 to the current year, except for instantaneous extremes, which are shown for the entire period of record. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	600	1000	1440	6440	15800	6020	5010	3080	2010	3120	664	292
2	497	838	1100	10700	10500	5750	5070	3130	1760	2230	769	525
3	2950	588	699	13100	9780	20400	4200	2100	1620	2230	492	598
4	2080	606	385	7370	8130	11500	10600	2650	1780	2010	649	538
5	1410	687	976	6740	6560	8770	6850	3030	682	1650	630	566
6	1410	686	720	6010	4770	16500	9610	18300	1560	1400	297	575
7	1490	781	1630	4990	4400	10800	7000	10600	1410	3010	824	533
8	981	937	1780	6100	4220	8300	5220	8850	793	3170	578	773
9	504	873	1600	20200	4510	15200	4080	8170	549	2000	557	402
10	725	1930	1390	11800	11700	9860	4290	6030	1560	2690	661	606
11	932	961	3400	8570	8410	7490	3060	5070	1360	3470	702	427
12	719	941	14900	8940	8790	6840	3150	2760	739	6640	387	393
13	799	1590	22500	7280	5960	14200	2340	2800	1360	3150	351	548
14	426	1940	9110	12300	5240	25000	2550	2380	1800	2640	672	582
15	878	3510	8710	8730	4120	17000	7740	2280	2540	1630	356	547
16	962	1950	7550	7100	4190	17400	4260	2280	988	1400	393	223
17	995	1720	5740	8130	5760	13600	3730	1760	1110	822	424	526
18	692	1730	3480	7760	6440	9990	2930	1890	869	1000	289	203
19	1090	1440	2990	5470	4550	7190	2160	1550	753	1450	689	702
20	712	1190	2630	5340	3940	5780	2490	1790	752	563	420	562
21	1280	1680	2520	3910	3670	6540	2050	1360	680	1130	416	513
22	640	1120	4100	9560	2810	4780	2150	2090	439	559	485	244
23	753	821	3620	44600	3370	4270	1230	1560	1270	848	268	264
24	478	1150	14200	45400	2200	3750	7130	1990	9170	948	732	292
25	653	1040	7190	38900	3190	3410	17400	841	18400	861	397	579
26	525	642	5050	26100	2910	3490	14300	1170	12600	994	730	346
27	826	1170	5090	13200	3230	2770	10600	1530	9610	721	417	560
28	1090	1110	15100	9220	11800	2730	5840	614	7390	554	594	428
29	487	700	11600	7700	---	4090	5680	1350	4540	1060	689	767
30	774	805	7730	15100	---	4510	3960	1500	6470	1270	369	356
31	751	---	7370	18900	---	4760	---	1480	---	691	576	---
MEAN	939	1205	5687	13090	6105	9119	5556	3419	3219	1804	532	482
MAX	2950	3510	22500	45400	15800	25000	17400	18300	18400	6640	824	773
MIN	426	588	385	3910	2200	2730	1230	614	439	554	268	203

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1999, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	1335	2667	5935	6325	7728	7196	4847	4979	3584	2043	1196	921				
MAX	2305	8154	15520	13090	17580	11750	16630	29390	14180	10680	2306	1693				
(WY)	1995	1987	1991	1999	1991	1995	1991	1991	1997	1989	1998	1996				
MIN	474	958	1816	978	2822	2571	929	853	479	411	349	220				
(WY)	1988	1991	1985	1986	1986	1985	1986	1988	1988	1984	1984	1984				

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1984 - 1999
ANNUAL MEAN	3841	4266	4080
HIGHEST ANNUAL MEAN			8424
LOWEST ANNUAL MEAN			1781
HIGHEST DAILY MEAN	26300	Mar 8	103000
LOWEST DAILY MEAN	374	Sep 12	77
ANNUAL SEVEN-DAY MINIMUM	594	Jun 27	138
INSTANTANEOUS PEAK FLOW			123000
INSTANTANEOUS PEAK STAGE			28.06
10 PERCENT EXCEEDS	10100		9400
50 PERCENT EXCEEDS	2120		1890
90 PERCENT EXCEEDS	680		502

02439400 BUTTAHATCHEE RIVER NEAR ABERDEEN, MS

LOCATION.--Lat 33°47'24", long 88°18'55", in NW1/4 SW1/4 sec.3, T.15 S., R.17 W., Huntsville Meridian, Monroe County, Hydrologic Unit 03160103, near right bank on downstream side of bridge on county highway, 10.1 mi downstream from Sipsey Creek, 13.7 mi southeast of Aberdeen, and 28.6 mi upstream from the mouth.

DRAINAGE AREA.--798 mi².

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--July 1966 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 220.77 ft Mississippi Department of Transportation datum.

REMARKS.--Estimated daily discharges: Oct. 21 - Dec. 17. Records good except for estimated daily discharges, which are poor. Satellite telemeter and U. S. Army Corps of Engineers telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1892 and 1893 reached stages of 21 ft, and floods Feb. 4, 1951 and Mar. 30, 1951, reached stages of 19.46 ft and 19.56 ft, respectively, from information by local residents, flood of Apr. 12, 1962, reached a stage of 19.01 ft, from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec. 27	0700	6,460	14.40	Feb. 2	2100	7,180	14.72
Jan. 25	0245	*25,700	*18.35	May 8	0745	13,100	16.52

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	e207	e351	3670	4970	2060	1410	1780	562	701	226	118
2	164	e208	e372	2160	6510	2330	1660	1250	614	588	211	114
3	160	e210	e394	2340	6180	2080	1580	1040	776	500	197	112
4	157	e220	e415	3110	4230	2440	1590	916	710	478	187	111
5	161	e227	e436	3620	2990	3050	2040	854	576	459	175	113
6	180	e237	e458	2770	2180	3050	2550	3060	493	399	169	114
7	204	e242	e479	1790	1810	2890	2510	6720	479	376	163	125
8	294	e250	e500	1630	1710	3370	2720	11500	439	495	159	137
9	498	e275	e580	2220	1620	3500	2450	7230	406	665	155	153
10	404	e320	e700	3140	1470	3270	1850	4000	387	557	161	191
11	292	e370	e750	4350	1620	3670	1520	2030	373	499	160	295
12	251	e425	e800	5370	1650	3440	1300	1370	356	742	162	221
13	235	e475	e1000	3640	1550	2550	1120	1380	335	965	160	172
14	223	e485	e1190	2240	1430	2430	1010	1190	342	849	157	155
15	214	e538	e1290	1910	1260	3140	1280	1050	409	616	142	144
16	210	e630	e1270	2180	1170	4010	1900	916	753	487	134	138
17	205	e670	e1150	1910	1350	4070	2130	825	699	425	128	124
18	196	e670	906	1690	2180	2990	1540	755	498	525	125	114
19	192	e570	800	1700	2810	2160	1210	711	401	472	124	110
20	200	e500	820	1680	2790	1780	1070	792	345	397	123	110
21	e208	e435	901	1440	2030	1710	978	731	316	364	122	111
22	e205	e382	980	1550	1550	1890	899	681	296	346	119	114
23	e203	e350	1540	4490	1360	1740	834	640	286	311	117	112
24	e200	e343	2540	13600	1250	1490	789	611	363	287	121	114
25	e202	e346	3530	21000	1180	1370	810	611	797	281	121	114
26	e204	e357	4890	9570	1120	1290	968	567	1120	305	129	111
27	e204	e360	5880	5670	1090	1190	1660	538	944	371	146	112
28	e203	e350	4000	3710	1340	1110	2490	549	1040	412	148	113
29	e203	e341	3310	2730	---	1060	2790	496	1080	302	142	119
30	e204	e330	4090	2920	---	1160	2660	453	862	261	132	124
31	e205	---	5110	3940	---	1360	---	538	---	241	126	---
TOTAL	6847	11283	51432	123740	62400	73650	49318	55784	17057	14676	4641	4015
MEAN	221	376	1659	3992	2229	2376	1644	1799	569	473	150	134
MAX	498	670	5880	21000	6510	4070	2790	11500	1120	965	226	295
MIN	157	207	351	1440	1090	1060	789	453	286	241	117	110
MED	204	350	906	2770	1620	2330	1560	854	486	459	146	114
CFSM	.28	.47	2.08	5.00	2.79	2.98	2.06	2.25	.71	.59	.19	.17
IN.	.32	.53	2.40	5.77	2.91	3.43	2.30	2.60	.80	.68	.22	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1999, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999			
MEAN	524	986	1974	2506	2365	2830	2280	1794	856	579	398	373																									
MAX	2349	2938	5698	4954	5459	6815	6130	8329	5020	1880	1175	1051																									
(WY)	1976	1978	1968	1974	1991	1980	1991	1991	1997	1994	1975	1979																									
MIN	134	275	464	519	904	703	461	315	136	164	117	134																									
(WY)	1988	1988	1988	1986	1968	1988	1986	1992	1988	1988	1988	1999																									

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1966 - 1999

ANNUAL TOTAL	497145	474843	
ANNUAL MEAN	1362	1301	1452
HIGHEST ANNUAL MEAN			2747
LOWEST ANNUAL MEAN			503
HIGHEST DAILY MEAN	22000	21000	63900
LOWEST DAILY MEAN	139	110	90
ANNUAL SEVEN-DAY MINIMUM	155	112	99
INSTANTANEOUS PEAK FLOW		25700	80000
INSTANTANEOUS PEAK STAGE		18.35	23.48
INSTANTANEOUS LOW FLOW		108	89
ANNUAL RUNOFF (CFSM)	1.71	1.63	1.82
ANNUAL RUNOFF (INCHES)	23.18	22.14	24.72
10 PERCENT EXCEEDS	3350	3120	3120
50 PERCENT EXCEEDS	653	630	767
90 PERCENT EXCEEDS	195	140	228

e Estimated

02439400 BUTTAHATCHEE RIVER NEAR ABERDEEN, MS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-75, 1989 to current year.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
JAN 06...	1500	2570	26	180
FEB 25...	0900	1190	17	55
APR 07...	1725	2510	35	237

02440500 CHUQUATONCHEE CREEK NEAR WEST POINT, MS

LOCATION.--Lat 33°36'27", Long 88°42'33", in NW1/4 NE1/4 sec.18, T.17 S., R.6 E., Chickasaw Meridian, Clay County, Hydrologic Unit 03160104, at bridge on State Highway 50, 3.0 mi west of West Point.

DRAINAGE AREA.--505 mi².

PERIOD OF RECORD.-- October 1943 to September 1946, October 1947 to September 1973, and April 1996 to current water year.

REVISED RECORDS.--WDR MS-98-1: Drainage area.

GAGE.--Water stage recorder. Datum of gage is 170.00 ft above sea level (U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Aug. 21-26 and Aug. 31 - Sept. 9 Records good except for periods of estimated daily discharges, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	4.0	36	1790	7680	1550	366	933	69	6370	33	e14
2	8.5	5.5	35	1280	6090	793	320	690	72	3860	28	e14
3	11	7.1	35	2360	3240	1970	266	546	71	1470	25	e13
4	400	8.1	36	2890	1190	2140	817	415	66	374	22	e12
5	147	7.4	35	2270	622	1380	1810	341	63	264	20	e12
6	69	6.9	35	716	489	987	2720	3860	62	217	19	e11
7	52	7.6	36	485	439	2140	3140	5670	56	1410	18	e12
8	41	16	102	554	425	3540	3170	5520	51	2830	18	e13
9	36	19	238	2450	377	3160	1710	2730	48	2570	17	e20
10	30	32	136	3660	423	2850	547	483	44	625	17	115
11	26	29	376	5130	1490	3380	380	255	45	638	17	71
12	23	38	1580	3870	1670	1660	295	211	44	1650	17	61
13	21	32	3140	1300	1230	873	239	195	371	2010	17	58
14	19	34	7390	584	633	2560	211	187	573	761	16	56
15	17	659	8080	590	437	4220	1440	164	275	290	16	54
16	17	660	4120	459	364	5370	2060	144	465	212	16	52
17	16	185	1070	368	603	2970	1930	128	166	170	15	51
18	14	108	323	401	1620	915	579	114	94	135	15	50
19	15	78	255	469	1430	527	291	103	68	116	16	50
20	16	66	308	357	630	429	237	95	54	101	17	48
21	13	66	271	299	420	479	203	88	47	89	e15	47
22	11	79	1030	678	336	492	169	82	40	77	e14	47
23	8.9	67	2010	3860	293	376	147	98	38	70	e14	45
24	7.0	56	3670	9650	271	331	650	98	442	62	e13	42
25	8.5	51	4530	11700	250	393	4550	81	1230	54	e14	40
26	9.0	47	5770	6810	241	380	11000	70	1840	49	e33	40
27	7.9	43	4330	3280	245	300	10800	69	2920	56	23	41
28	6.8	41	2850	1470	908	256	8370	72	5350	107	16	37
29	5.6	37	3210	1340	---	234	5730	68	12700	72	15	37
30	4.4	36	4550	3840	---	285	2500	67	10200	50	15	56
31	4.4	---	4590	6200	---	285	---	68	---	39	e15	---
TOTAL	1074.7	2525.6	64177	81110	34046	47225	66647	23645	37564	26798	566	1219
MEAN	34.7	84.2	2070	2616	1216	1523	2222	763	1252	864	18.3	40.6
MAX	400	660	8080	11700	7680	5370	11000	5670	12700	6370	33	115
MIN	4.4	4.0	35	299	241	234	147	67	38	39	13	11
MED	15	38	1030	1470	546	915	734	144	70	212	17	44
CFSM	.07	.17	4.10	5.18	2.41	3.02	4.40	1.51	2.48	1.71	.04	.08
IN.	.08	.19	4.73	5.97	2.51	3.48	4.91	1.74	2.77	1.97	.04	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1999, BY WATER YEAR (WY)

	MEAN	79.2	323	946	1525	1911	1865	1300	705	309	287	92.3	116
MAX	1177	4459	5071	4927	5088	4970	4060	3106	2978	1794	694	2096	
(WY)	1958	1958	1962	1949	1948	1973	1964	1997	1997	1963	1946	1950	
MIN	.000	.000	7.87	19.0	194	233	123	42.9	11.3	10.6	.000	.000	
(WY)	1953	1954	1944	1956	1963	1954	1967	1965	1965	1969	1954	1954	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1944 - 1999

ANNUAL TOTAL	333905.3	386597.3	
ANNUAL MEAN	915	1059	783
HIGHEST ANNUAL MEAN			1371
LOWEST ANNUAL MEAN			249
HIGHEST DAILY MEAN	10900	Mar 8	48400
LOWEST DAILY MEAN	4.0	Nov 1	.00
ANNUAL SEVEN-DAY MINIMUM	5.4	Oct 28	.00
INSTANTANEOUS PEAK FLOW			14500
INSTANTANEOUS PEAK STAGE			18.91
ANNUAL RUNOFF (CFSM)	1.81		2.10
ANNUAL RUNOFF (INCHES)	24.60		28.48
10 PERCENT EXCEEDS	2840		2280
50 PERCENT EXCEEDS	188		100
90 PERCENT EXCEEDS	16		2.2

e Estimated

02441390 TOMBIGBEE RIVER AT STENNIS LOCK AND DAM, NEAR COLUMBUS, MS
(Formerly published as Tombigbee River at Columbus Lock and Dam, near Columbus, MS)

LOCATION.--Lat 33°31'03", long 88°29'22", in NE1/4 sec.11, T.18 S., R.19 W., Huntsville Meridian, Lowndes County, Hydrologic Unit 03160101, at control tower on right bank of lock, 3.5 mi northwest of Columbus, 4.1 mi upstream from 02441500 Tombigbee River at Columbus, 6.4 mi upstream from Luxapallila Creek, and at mile 325.3.

DRAINAGE AREA.--4,440 mi², prior to construction of Tennessee-Tombigbee Waterway.

PERIOD OF RECORD.--October 1899 to December 1912. August 1928 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to April 1981, published as "02441500 Tombigbee River at Columbus". Gage-height records collected in this vicinity, 1890 to 1971, are contained in reports of National Weather Service, and 1972 to present at site 02441500 Tombigbee River at Columbus.

GAGE.--Water-stage, gate-position, and lockage recorder. Datum of gage is 100.00 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to April 1, 1982, water-stage recorder at site 4.1 mi downstream at datum 28.91 ft higher (see 02441500 Tombigbee River at Columbus). Water-stage recorder for Tombigbee River at Columbus (station 02441500) is used as base gage for this station when tail water gage-heights exceed 63 ft.

REMARKS.--No estimated daily discharges. Records fair except those below 1,000 ft³/s, which are poor. Reservoir is formed by earth fill dam with concrete spillway with five 60 ft wide tainter gates with sill elevation of 138.0 ft above sea level and 110 ft by 600 ft lock with maximum lift of 27 ft at normal pool elevation of 163.0 ft above sea level. Minimum flow structure with manually operated gates and maximum discharge of about 300 ft³/s at normal pool. Storage began Jan. 16, 1981, dam completed Jan. 29, 1981. Capacity 59,500 acre-ft at normal pool. Regulation for maintenance of navigational pool only. Beginning April 1, 1981, daily discharge computed from relation between discharge, head, gate openings, lockages, and minimum flow structure. Statistics shown below are for water years 1982 to the current year, except for instantaneous extremes, which are shown for the entire period of record at the datum then in use. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1892, the greatest since at least 1867, reached an elevation of 173.0 ft above sea level at site 3.93 mi downstream, discharge 278,000 ft³/s estimated by U. S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	608	747	1690	15800	44400	9850	5990	6400	2550	17600	832	478
2	1050	1190	1090	18200	28400	8550	6230	4640	2130	10500	668	350
3	2620	1340	1140	26500	23500	27000	4810	3160	2620	6060	716	590
4	2220	692	901	14900	17800	21200	14000	2970	2240	2150	718	641
5	1940	811	1380	13500	12200	15900	12400	2980	1150	2640	652	702
6	1420	716	1090	11200	8530	22200	17000	33900	2210	1680	524	475
7	2020	819	1850	8250	6900	19300	14000	24500	1780	5850	408	342
8	704	1670	2680	7720	6330	13300	11900	24100	1050	6840	527	743
9	1110	874	2400	31200	5830	25900	10700	27300	1010	5050	785	496
10	1370	2610	2500	23600	11700	19800	7370	16000	1540	5180	506	750
11	1260	1480	4570	18700	12000	15400	4660	8440	1520	4950	662	482
12	823	1130	16600	19300	11900	14300	3960	5110	1740	10500	821	441
13	1330	1790	37300	15600	9890	16200	3560	3880	1760	5500	348	525
14	510	2740	16700	15500	8990	37400	3170	4160	3800	4620	382	868
15	1390	4720	17900	11900	7220	27200	12800	3530	2940	2270	285	451
16	669	3690	18800	9630	8070	27100	8890	2960	1660	2040	662	423
17	1110	3160	12900	9200	8200	24300	9240	2920	2120	1490	380	506
18	1250	2380	5420	10800	10600	16400	6310	2640	1210	1630	495	402
19	1110	2470	3720	7860	9430	10900	3810	2380	1250	1660	516	690
20	838	1600	4750	6920	9200	8330	3980	1780	1290	1230	770	507
21	1320	1470	3680	5740	8600	8720	2820	2310	740	1130	666	582
22	799	1610	7800	11900	6580	6810	2930	2530	548	1080	349	386
23	694	1370	7940	66600	4990	6020	2790	2420	1840	1070	333	415
24	944	1520	32900	65000	3840	5980	8510	2390	9000	1150	728	543
25	742	1300	20400	66800	4450	5330	31200	1620	21000	1080	740	544
26	726	1110	15700	67800	3680	5430	20400	1830	18000	1410	568	922
27	1020	1620	17000	38700	3800	4140	24400	2130	16300	804	601	828
28	948	1320	31900	19600	14100	3980	18700	1490	13800	819	409	460
29	990	921	29900	15800	---	4080	16400	1910	11600	1070	824	1270
30	643	1320	18300	37300	---	5480	11200	2640	22200	1710	439	520
31	978	---	17900	49000	---	5570	---	2040	---	861	478	---
TOTAL	35156	50190	358801	740520	311130	442070	304130	207060	152598	111624	17792	17332
MEAN	1134	1673	11570	23890	11110	14260	10140	6679	5087	3601	574	578
MAX	2620	4720	37300	67800	44400	37400	31200	33900	22200	17600	832	1270
MIN	510	692	901	5740	3680	3980	2790	1490	548	804	285	342
CFSM	.26	.38	2.61	5.38	2.50	3.21	2.28	1.50	1.15	.81	.13	.13
IN.	.29	.42	3.01	6.20	2.61	3.70	2.55	1.73	1.28	.94	.15	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1999, BY WATER YEAR (WY)

	MEAN	2109	4220	12640	12870	14890	13370	11640	10610	5641	3221	1824	1383
MAX	5896	12940	36640	26290	33900	22820	37260	56740	24690	12310	3701	3001	
(WY)	1985	1987	1983	1989	1991	1995	1983	1991	1997	1994	1998	1996	
MIN	585	483	1627	1799	4961	4308	1613	1284	626	1013	574	305	
(WY)	1988	1982	1982	1986	1986	1985	1986	1992	1988	1984	1999	1984	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1982 - 1999

ANNUAL TOTAL	2653613	2748403	
ANNUAL MEAN	7270	7530	7838
HIGHEST ANNUAL MEAN			15970
LOWEST ANNUAL MEAN			2742
HIGHEST DAILY MEAN	60900	Mar 8	166000
LOWEST DAILY MEAN	375	Jul 2	120
ANNUAL SEVEN-DAY MINIMUM	718	Jun 27	170
INSTANTANEOUS PEAK FLOW			194000
INSTANTANEOUS PEAK STAGE			42.22
ANNUAL RUNOFF (CFSM)	1.64		1.77
ANNUAL RUNOFF (INCHES)	22.23		23.99
10 PERCENT EXCEEDS	18400		18800
50 PERCENT EXCEEDS	3480		3200
90 PERCENT EXCEEDS	823		720

02441500 TOMBIGBEE RIVER AT COLUMBUS, MS

LOCATION.--Lat 33°29'25", long 88°25'22", in NE1/4 NE1/4 sec.29, T.18 S., R.18 W., Huntsville Meridian, Lowndes County, Hydrologic Unit 03160101, on left bank at Columbus, 1,200 ft downstream from bridge on old U.S. Highway 45E and 82, 1,800 ft upstream from Gulf, Mobile and Ohio Railroad bridge, 2.3 mi upstream from Luxapallila Creek, 4.1 mi downstream from 02441390 Tombigbee River at Stennis Lock and Dam, near Columbus, 6.7 mi downstream from Tibbee Creek, and at mile 319.7.

DRAINAGE AREA.--4,463 mi², prior to construction of Tennessee-Tombigbee Waterway.

PERIOD OF RECORD.--October 1899 to December 1912, August 1928 to March 1981, April 1981 to current year (gage heights only). Monthly discharge only for some periods, published in WSP 1304. Daily mean gage heights published since January 1972. Gage-height records collected in this vicinity, 1890 to 1971, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 662: Drainage area, WSP 727: 1928-29. WSP 802: 1929(M). WSP 1504: 1900-03, 1950.

GAGE.--Water-stage recorder. Datum of gage is 128.91 ft above sea level. Prior to Nov. 7, 1934, nonrecording gage at various sites within 0.2 mi of present site, at datum 4.00 ft higher prior to Mar. 13, 1934, and at present datum thereafter. Mar. 3, 1941 to Sept. 30, 1968, auxiliary nonrecording at gage site 3.7 mi upstream at different datum. Oct. 1, 1968, to Sept. 30, 1971, auxiliary nonrecording gage 2.1 mi upstream from base gage at datum 128.82 ft above sea level.

REMARKS.--Stage affected since Dec. 27, 1979, by Aliceville Lock and Dam 32.0 mi downstream, normal pool elevation 136.0 ft above sea level and since Jan. 16, 1981, by Columbus Lock and Dam, 4.1 mi upstream. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 194,000 ft³/s, March 19, 1973, gage height, 42.22 ft, site and datum then in use, minimum daily discharge, 120 ft³/s, Sept. 25, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1892, the greatest since at least 1867, reached an elevation of 173.0 ft above National Geodetic Vertical of 1929 at site 1,100 ft upstream (corresponding stage at gage about 44 ft) discharge 268,000 ft³/s estimated by U. S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--See 02441390 for discharge records. Maximum gage height, 25.14 ft, Jan.24, minimum daily, 7.66 ft, Oct. 1.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.66	7.91	8.02	11.01	20.42	9.49	8.65	8.63	8.09	11.11	---	7.94
2	7.75	8.08	7.93	11.05	17.06	9.20	8.63	8.37	8.13	9.50	---	7.92
3	7.98	8.14	8.02	13.56	14.45	13.02	8.51	8.19	8.09	8.55	7.87	7.89
4	7.97	7.96	7.95	11.00	12.14	12.75	9.65	8.14	8.07	7.93	7.90	7.94
5	8.03	7.94	8.08	10.51	10.39	11.06	10.08	8.20	8.01	7.91	7.93	7.99
6	8.06	8.02	8.05	9.95	9.32	11.94	10.67	13.65	8.02	7.82	7.83	8.02
7	8.04	8.01	8.09	9.17	8.89	12.14	10.40	13.16	7.92	8.36	7.74	7.99
8	7.75	8.00	8.11	9.03	8.75	10.35	9.86	12.64	8.03	8.49	7.76	8.04
9	7.90	7.95	8.01	13.47	8.66	12.98	9.51	13.37	8.07	8.22	7.84	8.07
10	8.05	8.17	8.08	13.11	9.67	12.47	8.89	11.06	8.05	8.34	7.89	7.87
11	7.94	7.91	8.31	11.63	9.99	10.88	8.40	9.11	8.08	8.32	7.95	7.95
12	7.87	7.95	10.10	11.67	9.70	10.57	8.20	8.54	8.04	9.20	7.94	7.96
13	7.99	8.06	14.86	11.02	9.35	10.51	8.20	8.23	8.07	8.26	7.82	7.99
14	7.83	8.07	11.26	10.64	8.90	15.76	8.26	8.12	8.25	8.21	7.77	8.06
15	7.89	8.36	10.72	10.13	8.45	14.46	9.87	8.08	8.09	7.86	7.77	8.07
16	8.01	8.25	11.32	9.53	8.56	13.87	9.27	8.08	7.97	7.93	7.78	8.02
17	8.07	8.11	10.07	9.26	8.62	13.21	9.29	8.12	8.05	7.77	7.82	8.00
18	8.05	8.12	8.53	9.56	9.55	11.25	8.72	7.95	7.91	7.75	7.76	7.99
19	7.95	8.11	8.31	9.11	9.37	9.72	8.28	7.89	8.04	7.87	7.75	7.99
20	7.89	8.02	8.27	8.94	8.98	9.09	8.25	7.90	8.07	7.90	7.77	8.00
21	7.96	7.96	8.33	8.73	8.74	9.08	8.15	8.14	7.97	7.81	7.84	7.95
22	7.82	8.10	8.80	9.93	8.38	8.73	8.18	8.14	7.91	7.79	7.80	7.97
23	7.82	8.02	9.07	21.75	8.52	8.63	8.06	7.96	7.98	7.80	7.77	7.94
24	7.88	8.00	14.10	25.14	8.26	8.47	8.82	8.10	8.74	7.89	7.78	7.93
25	7.92	7.99	12.84	24.82	8.36	8.46	14.13	8.01	11.06	7.96	7.96	7.95
26	7.95	8.03	11.43	24.79	8.28	8.47	11.57	7.99	11.02	7.99	7.92	7.99
27	7.97	8.01	11.52	18.13	8.37	8.27	12.78	7.97	10.61	7.96	7.97	8.10
28	8.00	7.99	13.90	12.61	10.24	8.36	11.43	7.89	10.47	---	7.94	7.99
29	8.04	8.05	15.06	10.97	---	8.31	10.81	8.01	9.39	---	7.99	8.04
30	7.93	8.03	12.03	16.57	---	8.45	9.81	8.02	11.64	---	8.01	7.90
31	7.89	---	11.57	20.05	---	8.50	---	8.06	---	---	8.00	---
MEAN	7.93	8.04	10.02	13.12	10.01	10.60	9.51	8.89	8.59	---	---	7.98
MAX	8.07	8.36	15.06	25.14	20.42	15.76	14.13	13.65	11.64	---	---	8.10
MIN	7.66	7.91	7.93	8.73	8.26	8.27	8.06	7.89	7.91	---	---	7.87
MED	7.95	8.02	8.80	11.01	8.94	10.35	9.08	8.12	8.07	---	---	7.99

LOCATION. --Lat 33°30'51", lon 88°23'43". in NW1/4 SW1/4 sec.11, T.18 S., R.18 W., Huntsville Meridian, Lowndes County, Hydrologic Unit 031601005, on right bank at Columbus Water Works pumping plant, 175 ft upstream from bridge on county highway (formerly State Highway 50), 0.6 mi upstream from Magby Creek, 1.4 mi upstream from U. S. Highway 82 and 6.2 mi upstream from mouth.

WATER-DISCHARGE RECORDS

REVISED RECORDS.--WSP 1304: 1929, 1930 (Monthly values only). WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 142.23 ft above sea level. Prior to Nov. 3, 1974, nonrecording gage at same site. September 1928 to September 1930 at undetermined datum, but believed to be same as present datum.

REMARKS.--Estimated daily discharges: Apr. 25-28. Records good except for estimated daily discharges, which are poor. Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1892, 35.3 ft, April 1892, from information by U. S. Army Corps of Engineers. The flood of January 1949, reached a stage of 32.8 ft and the flood of December 1961, reached a stage of 31.8 ft, according to information by U. S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 25	1030	*18,500	*18.88	Feb. 1	1200	13,700	16.06

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	124	233	1880	13400	1080	966	800	490	1210	174	75
2	120	128	231	1670	11800	1110	1150	684	463	1120	160	73
3	118	131	228	1970	5820	1520	1090	578	570	832	145	72
4	117	139	226	2470	3020	2190	1140	507	582	639	132	76
5	116	156	227	2030	2090	2110	1240	473	506	492	124	74
6	117	158	227	1660	1650	1860	1290	815	463	397	117	75
7	119	149	253	1490	1420	2080	1250	1540	330	397	113	93
8	133	165	267	1370	1280	2070	1390	2440	303	465	110	106
9	180	185	372	1730	1190	1960	1200	1610	363	515	108	113
10	203	254	457	2230	1150	2360	1060	1230	324	519	107	115
11	179	335	545	2570	1070	2270	943	853	293	470	117	119
12	160	383	655	2090	1010	1740	836	640	259	550	125	109
13	149	414	888	1820	947	1570	744	623	272	611	117	98
14	145	404	1070	1550	891	2160	670	590	268	547	108	100
15	140	460	1090	1470	836	3520	999	555	355	436	100	99
16	136	559	931	1680	788	3070	1540	483	479	363	96	103
17	131	579	825	1460	800	2310	1720	421	436	332	91	105
18	128	482	714	1370	1020	1850	1230	391	334	316	88	92
19	125	404	642	1440	1390	1500	1090	353	271	311	86	87
20	122	341	638	1510	1250	1290	908	326	229	283	83	83
21	123	295	660	1340	1130	1250	769	313	201	248	80	77
22	126	272	782	1530	1000	1230	679	369	184	222	77	77
23	121	264	939	8150	890	1170	615	370	175	203	76	78
24	118	263	1990	15200	809	1070	585	434	242	189	80	81
25	119	268	2850	17800	762	1050	e780	374	471	214	87	82
26	120	278	3670	11200	749	1060	e1310	325	965	426	91	79
27	123	274	2680	3540	747	1010	e1530	297	1040	496	93	78
28	124	259	2760	2110	895	935	e1160	281	1540	339	92	82
29	125	250	3100	1800	---	876	1240	268	1200	265	88	109
30	125	239	3530	3530	---	835	995	290	1050	219	82	120
31	124	---	2400	9410	---	857	---	481	---	192	79	---
TOTAL	4108	8612	36080	111070	59804	50963	32119	19714	14658	13818	3226	2730
MEAN	133	287	1164	3583	2136	1644	1071	636	489	446	104	91.0
MAX	203	579	3670	17800	13400	3520	1720	2440	1540	1210	174	120
MIN	116	124	226	1340	747	835	585	268	175	189	76	72
MED	124	266	714	1820	1040	1520	1090	481	359	397	96	85
AC-FT	8150	17080	71560	220300	118600	101100	63710	39100	29070	27410	6400	5410
CFSM	.19	.40	1.63	5.01	2.99	2.30	1.50	.89	.68	.62	.15	.13
IN.	.21	.45	1.88	5.78	3.11	2.65	1.67	1.03	.76	.72	.17	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1999, BY WATER YEAR (WY)

MEAN	392	816	1410	2084	1993	2429	2094	1357	597	480	279	279
MAX	1675	3011	5840	3857	4650	6465	5671	7073	2886	1855	1201	1901
(WY)	1976	1930	1984	1979	1990	1980	1991	1991	1997	1994	1975	1979
MIN	68.3	139	268	463	666	461	308	154	55.8	73.9	49.7	69.1
(WY)	1988	1988	1988	1986	1986	1988	1986	1988	1988	1988	1988	1987

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1929 - 1999
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ANNUAL TOTAL	400129		356902				
ANNUAL MEAN	1096		978			1184	
HIGHEST ANNUAL MEAN						2277	1991
LOWEST ANNUAL MEAN						320	1988
HIGHEST DAILY MEAN	19100	Jan 9	17800	Jan 25		38000	Apr 14 1979
LOWEST DAILY MEAN	116	Oct 5	72	Sep 3		25	Aug 18 1988
HIGHEST DAILY MEAN	118	Oct 1	75	Aug 31		29	Aug 14 1988
ANNUAL SEVEN-DAY MINIMUM							
INSTANTANEOUS PEAK FLOW			18500	Jan 25		40400	Apr 14 1979
INSTANTANEOUS PEAK STAGE			18.88	Jan 25		32.35	Apr 14 1979
INSTANTANEOUS LOW FLOW			71	Sep 3, 4		28	Sep 2 1988
ANNUAL RUNOFF (AC-FT)	793700		707900			858100	
ANNUAL RUNOFF (CFSM)	1.53		1.37			1.66	
ANNUAL RUNOFF (INCHES)	20.82		18.57			22.51	
10 PERCENT EXCEEDS	2510		2010			2540	
50 PERCENT EXCEEDS	515		471			587	
90 PERCENT EXCEEDS	133		100			125	

e Estimated

MOBILE RIVER BASIN

02443500 LUXAPALLILA CREEK NEAR COLUMBUS, MS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
JAN 06...	0950	1680	18	82
FEB 23...	1650	868	19	45
APR 07...	1100	1230	27	90

LOCATION.--Lat 33°06'08", long 88°33'40", in NW1/4 NE1/4 sec.4, T.14 N., R.17 E., Choctaw Meridian, Noxubee County, Hydrologic Unit 03160108, on left bank at downstream side of bridge on old U.S. Highway 45 at Macon, 0.2 mi upstream from Cedar Creek, 1.0 mi downstream from Illinois Central and Gulf Railroad bridge, 1.5 mi downstream from Horse Hunters Creek, and 6.2 mi upstream from Running Water Creek.

PERIOD OF RECORD.--August 1928 to September 1932, September 1938 to current year. Monthly discharge only June to September 1932, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 142.38 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to May 31, 1932, nonrecording gage at site 40 ft downstream at different datum. Sept. 21, 1938 to Aug. 10, 1939, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1892 reached a stage of about 34 ft, present site and datum, from information by local residents. Flood in December 1926 reached a stage of about 30 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 24	1900	8,730	27.11	Mar. 14	1300	5,290	22.69
Jan. 31	1600	*17,700	*29.81				

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	53	73	1540	13800	1590	815	336	134	415	109	57
2	62	56	73	2050	11300	1340	727	266	154	237	106	54
3	63	58	72	3090	9810	3180	643	231	147	175	98	53
4	66	69	71	2390	7920	3490	678	205	131	141	85	53
5	70	56	68	1600	6660	2580	1380	192	115	120	78	55
6	69	53	65	1520	4990	2050	1430	257	106	105	77	74
7	67	53	64	1520	2110	2080	1410	335	101	1720	72	65
8	65	56	76	1510	970	1990	1360	380	116	729	67	83
9	66	66	124	2550	779	2210	1090	467	116	259	65	74
10	66	87	106	2920	687	2390	736	351	98	274	71	96
11	75	92	185	2080	605	1850	540	267	91	256	80	71
12	79	117	1120	1670	532	1680	431	230	90	241	70	61
13	78	88	1070	1620	467	2050	362	196	99	151	65	74
14	77	101	547	1880	411	4960	315	177	110	135	93	85
15	77	117	372	2020	374	4880	356	192	263	152	87	77
16	77	116	325	1330	345	3740	456	191	216	154	72	65
17	77	110	239	973	345	2270	560	166	133	119	65	58
18	75	95	180	967	389	2050	792	147	120	115	62	54
19	72	93	152	1020	439	1810	626	141	127	165	60	53
20	71	87	150	792	555	1250	424	135	112	147	59	53
21	70	80	144	641	704	982	335	119	99	151	57	53
22	67	86	142	1060	716	820	289	112	91	147	55	52
23	61	81	457	6330	598	648	262	123	88	122	55	51
24	57	79	2810	8170	494	604	289	169	88	108	56	50
25	56	79	2820	7810	425	1860	988	141	95	106	56	49
26	56	83	1460	6040	382	2280	602	129	178	132	69	52
27	57	82	1140	4390	456	1330	396	121	610	293	62	53
28	56	77	2360	3810	1810	1140	653	128	2060	213	61	52
29	54	76	3280	3840	---	969	495	125	770	180	70	59
30	53	75	2470	6980	---	740	420	156	398	132	72	84
31	51	---	1640	15700	---	730	---	171	---	114	63	---
TOTAL	2054	2421	23855	99813	69073	61543	19860	6356	7056	7508	2217	1870
MEAN	66.3	80.7	770	3220	2467	1985	662	205	235	242	71.5	62.3
MAX	79	117	3280	15700	13800	4960	1430	467	2060	1720	109	96
MIN	51	53	64	641	345	604	262	112	88	105	55	49
CFSM	.09	.11	1.00	4.19	3.21	2.58	.86	.27	.31	.32	.09	.08
IN.	.10	.12	1.16	4.83	3.35	2.98	.96	.31	.34	.36	.11	.09

MEAN	171	422	1142	1996	2343	2424	2060	1046	358	428	199	203
MAX	1970	2518	6913	8286	6013	6396	11290	6567	2046	5315	1335	2520
(WY)	1976	1958	1962	1974	1983	1980	1979	1991	1997	1940	1946	1979
MIN	32.1	46.4	78.3	69.5	293	423	118	93.9	57.3	53.6	34.4	28.4
(WY)	1944	1964	1944	1956	1943	1967	1963	1988	1988	1956	1954	1954

ANNUAL TOTAL	339692		303626			
ANNUAL MEAN	931		832		1060	
HIGHEST ANNUAL MEAN					2666	1983
LOWEST ANNUAL MEAN					248	1963
HIGHEST DAILY MEAN	9810	Jan 9	15700	Jan 31	110000	Apr 13 1979
LOWEST DAILY MEAN	51	Oct 31	49	Sep 25	23	Aug 26 1943
ANNUAL SEVEN-DAY MINIMUM	54	Oct 26	51	Sep 22	25	Aug 24 1943
INSTANTANEOUS PEAK FLOW			17700	Jan 31	125000	Apr 13 1979
INSTANTANEOUS PEAK STAGE			29.81	Jan 31	38.97	Apr 13 1979
INSTANTANEOUS LOW FLOW			48	Sep 26	22	Aug 25 1943
ANNUAL RUNOFF (CFSM)	1.21		1.08		1.38	
ANNUAL RUNOFF (INCHES)	16.45		14.71		18.75	
10 PERCENT EXCEEDS	2770		2080		3190	
50 PERCENT EXCEEDS	205		151		235	
90 PERCENT EXCEEDS	66		58		59	

02448500 NOXUBEE RIVER NEAR GEIGER, AL

LOCATION.--Lat 32°55'57", long 88°17'52", in NE¹/₄ sec. 33, T. 23 N., R. 3 W., Sumter County, Hydrologic Unit 03160108, near right bank on downstream side of bridge on State Highway 17, 0.1 mi upstream from Woodward Creek, 2.1 mi upstream from St. Louis-San Francisco Railroad bridge, 5 mi north of Geiger, and at mile 16.9.

DRAINAGE AREA.--1,097 mi².

PERIOD OF RECORD.--March 1939 to September 1940, August 1944 to September 1965, October 1965 to September 1966 (gage heights only), October 1966 to current year. Monthly discharge only for period October to December 1966.

REVISED RECORDS.--WDR AL-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 86.08 ft above sea level. Prior to Sept. 30, 1940, nonrecording gage at site of old highway bridge 1 mi downstream at datum 1.44 ft lower. July 26, 1944 to June 5, 1949, nonrecording gage at site on old river channel 1 mi south at same datum. June 6, 1949 to Sept. 30, 1984, at site on old river channel 1 mi south at same datum.

REMARKS.--Estimated daily discharges: May 14-29, and June 2, 3. Records good except those estimated, which are fair. Discharge includes flow of old river channel at bridge on State Highway 17, 1 mi south of gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	78	93	1640	17000	2100	1320	447	283	872	148	87
2	73	79	92	1660	18100	1630	1090	370	e200	493	138	78
3	73	81	90	3220	18500	3970	877	304	e170	305	134	72
4	71	82	90	3530	16000	5150	751	265	173	220	129	69
5	70	87	91	2440	13300	4160	859	251	157	179	116	70
6	73	96	92	1600	11200	3120	1380	582	140	153	104	74
7	83	86	88	1510	9150	2510	1370	626	126	174	98	80
8	82	85	86	1640	5400	2270	1330	377	117	1740	95	100
9	78	87	85	2880	1340	2590	1230	390	125	849	90	96
10	75	98	106	4220	905	3110	964	447	140	338	92	142
11	76	125	183	3430	789	2650	703	378	121	406	87	125
12	77	145	430	2230	701	1960	548	311	105	306	97	112
13	86	160	1370	1730	624	2460	460	285	100	285	101	87
14	90	154	1190	1620	560	6200	403	e240	112	207	89	76
15	90	140	648	1970	507	6880	389	e210	526	162	88	88
16	89	152	439	1880	472	6210	442	e200	445	166	113	100
17	89	160	375	1280	462	4700	492	e190	284	186	103	94
18	89	139	299	945	503	2660	544	e170	176	164	91	88
19	90	132	235	963	536	2040	698	e160	136	142	84	78
20	88	117	197	958	555	1700	595	e150	132	169	81	68
21	84	115	187	787	629	1200	449	e140	129	181	78	67
22	82	107	185	889	736	967	372	e130	113	170	76	66
23	80	103	183	5400	739	819	329	e120	104	176	76	66
24	79	108	1770	7770	654	686	306	e200	107	164	74	66
25	86	103	4030	8110	571	1620	688	e170	120	144	75	66
26	83	102	3090	8360	512	3870	908	e150	199	137	73	65
27	82	97	1530	8330	479	2640	615	e140	365	135	74	67
28	82	98	1600	7390	1440	1440	556	e130	1680	249	87	71
29	83	97	3540	5340	---	1140	612	e130	1920	281	81	76
30	82	94	3660	8830	---	971	557	e180	840	213	79	74
31	81	---	2520	15400	---	1090	---	e220	---	176	88	---
TOTAL	2518	3307	28574	117952	122364	84513	21837	8063	9345	9542	2939	2468
MEAN	81.2	110	922	3805	4370	2726	728	260	312	308	94.8	82.3
MAX	90	160	4030	15400	18500	6880	1380	626	1920	1740	148	142
MIN	70	78	85	787	462	686	306	120	100	135	73	65
CFM	.07	.10	.84	3.47	3.98	2.49	.66	.24	.28	.28	.09	.07
IN.	.09	.11	.97	4.00	4.15	2.87	.74	.27	.32	.32	.10	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1999, BY WATER YEAR (WY)

	MEAN	264	612	1668	3031	3545	3444	3151	1437	597	644	315	294
MAX	2515	2958	9407	9782	9415	9230	17520	10340	2794	7432	2064	3067	
(WY)	1976	1958	1962	1949	1983	1980	1979	1991	1997	1940	1946	1950	
MIN	31.0	49.5	105	91.1	527	542	180	107	61.3	62.8	34.1	27.5	
(WY)	1955	1955	1963	1956	1963	1967	1963	1965	1988	1952	1954	1954	

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1939 - 1999

ANNUAL TOTAL	500551	413422	
ANNUAL MEAN	1371	1133	1572
HIGHEST ANNUAL MEAN			3967
LOWEST ANNUAL MEAN			327
HIGHEST DAILY MEAN	19000	Jan 8	18500
LOWEST DAILY MEAN	70	Oct 5	65
ANNUAL SEVEN-DAY MINIMUM	72	Sep 29	66
INSTANTANEOUS PEAK FLOW			19200
INSTANTANEOUS PEAK STAGE			38.69
ANNUAL RUNOFF (CFM)	1.25		1.03
ANNUAL RUNOFF (INCHES)	16.97		14.02
10 PERCENT EXCEEDS	4600		2750
50 PERCENT EXCEEDS	261		185
90 PERCENT EXCEEDS	82		79

e Estimated

02467200 SUCARNOOCHEE RIVER NEAR PORTERVILLE, MS

LOCATION.--Lat 32° 41'53", Long 88° 29'06", in NE 1/4 SE 1/4 sec. 19, T.20 N., R.18E., Choctaw Meridian, Kemper County, Hydrologic Unit 03160202, on right downstream end of the northbound bridge on U.S. Highway 45, 4.9 miles south of Electric Mills, MS.

DRAINAGE AREA.--135 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1942-77, 1986-88. April, 1996 to current water year.

GAGE.--Water stage recorder. Datum of gage is 175.00 ft above sea level (Mississippi Department of Transportation datum).

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of April 13, 1979, reached a stage of approximately 22.10 ft, discharge, 27,800 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	43	61	132	3500	186	329	78	80	45	33	32
2	43	44	62	142	1670	144	241	72	70	43	37	32
3	41	55	62	300	612	488	203	68	60	40	33	32
4	41	62	62	216	418	500	185	66	53	38	31	32
5	42	51	63	156	329	265	182	70	50	37	30	38
6	43	49	68	135	281	208	161	83	46	36	29	47
7	44	48	66	138	253	195	146	116	43	37	30	39
8	45	53	67	155	229	162	136	84	43	42	29	38
9	51	71	69	241	207	272	130	70	43	52	30	65
10	45	75	70	328	193	337	122	63	43	44	55	77
11	44	136	94	217	180	213	115	58	42	39	66	48
12	42	103	408	170	171	174	106	68	42	38	44	40
13	42	69	273	149	155	451	98	143	44	46	38	36
14	41	67	190	138	147	991	95	112	45	40	38	36
15	41	85	130	131	142	771	114	84	47	37	33	44
16	41	80	104	127	138	388	213	69	48	38	31	36
17	41	69	91	119	132	286	131	65	47	44	31	33
18	40	64	82	117	174	241	110	61	43	52	31	32
19	40	63	79	111	156	210	101	58	40	43	31	33
20	42	62	103	102	134	189	97	55	38	47	30	32
21	43	64	93	99	124	197	93	52	38	39	29	33
22	41	69	85	126	118	176	87	51	38	37	33	33
23	39	65	87	863	112	158	82	51	37	36	29	33
24	39	66	223	1290	114	149	80	52	40	38	28	32
25	42	70	359	1050	110	391	81	50	43	40	28	32
26	43	67	195	345	106	575	88	48	51	41	53	33
27	39	65	148	257	109	303	85	49	56	48	50	32
28	42	62	187	215	197	221	88	52	55	39	39	33
29	42	62	353	239	---	190	82	52	56	36	38	38
30	42	62	212	1550	---	195	81	70	46	36	35	56
31	42	---	155	5290	---	314	---	68	---	34	34	---
TOTAL	1306	2001	4301	14648	10211	9540	3862	2138	1427	1262	1106	1157
MEAN	42.1	66.7	139	473	365	308	129	69.0	47.6	40.7	35.7	38.6
MAX	51	136	408	5290	3500	991	329	143	80	52	66	77
MIN	39	43	61	99	106	144	80	48	37	34	28	32
CFSM	.31	.49	1.03	3.50	2.70	2.28	.95	.51	.35	.30	.26	.29
IN.	.36	.55	1.19	4.04	2.81	2.63	1.06	.59	.39	.35	.30	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

MEAN	58.2	105	206	540	446	297	268	104	131	90.3	70.8	53.7
MAX	69.5	153	306	823	595	316	362	165	325	151	87.0	74.4
(WY)	1997	1998	1998	1998	1997	1999	1997	1997	1997	1997	1996	1996
MIN	43.1	68.6	141	320	371	260	128	67.2	47.0	40.6	35.7	38.6
(WY)	1999	1999	1999	1997	1999	1997	1999	1999	1999	1999	1999	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1996 - 1999	
ANNUAL TOTAL	74522		52959			
ANNUAL MEAN	204		145		197	
HIGHEST ANNUAL MEAN					227	
LOWEST ANNUAL MEAN					147	
HIGHEST DAILY MEAN	5710 Jan 8		5290 Jan 31		5710 Jan 8 1998	
LOWEST DAILY MEAN	39 Oct 23		28 Aug 24		28 Aug 24 1999	
ANNUAL SEVEN-DAY MINIMUM	41 Oct 18		30 Aug 19		30 Aug 19 1999	
INSTANTANEOUS PEAK FLOW			6440 Jan 31		7170 Jan 8 1998	
INSTANTANEOUS PEAK STAGE			19.77 Jan 31		19.93 Jan 8 1998	
INSTANTANEOUS LOW FLOW			25 Aug 25		25 Aug 25 1999	
ANNUAL RUNOFF (CFSM)	1.51		1.07		1.46	
ANNUAL RUNOFF (INCHES)	20.53		14.59		19.86	
10 PERCENT EXCEEDS	405		241		351	
50 PERCENT EXCEEDS	83		65		93	
90 PERCENT EXCEEDS	43		34		43	

02472000 LEAF RIVER NEAR COLLINS, MS

LOCATION.--Lat 31°42'25", long 89°24'25", in NE1/4 SW1/4 NE1/4 sec.33, T.9 N., R.14 W., St. Stephens Meridian, Covington County, Hydrologic Unit 031700004, on right bank at downstream side of bridge on U.S. Highway 84, 2.0 mi downstream from Oakahoy Creek, 10.6 mi upstream from Big Creek, 9.5 mi northeast of Collins, and at mile 114.5.

DRAINAGE AREA.--743 mi².

PERIOD OF RECORD.--September 1938 to current year.

REVISED RECORDS.--WSP 2106: 1950 (M). WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 197.01 ft above sea level. Prior to Dec. 8, 1938, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Sept. 8-27. Records good except for estimated daily discharges, which are poor. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1856 reached a stage of about 33 ft, and the flood in April 1900 reached a stage of 32 ft, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 2	0645	*15,300	*21.89	Mar. 14	1015	9,980	18.04

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	129	164	411	12700	2110	1020	225	383	234	100	83
2	170	133	164	402	14400	1980	1110	196	288	211	91	89
3	158	139	165	719	6630	1130	834	179	207	159	87	85
4	153	143	166	898	2900	775	650	169	169	139	83	94
5	150	140	168	812	1880	740	590	167	148	125	80	94
6	148	136	170	532	1200	676	533	173	137	115	77	91
7	158	135	169	429	954	691	501	162	129	107	74	106
8	173	135	172	398	796	599	445	153	123	104	71	e100
9	170	137	183	433	697	1930	397	142	122	107	75	e103
10	161	168	196	547	652	3450	359	136	129	107	143	e110
11	153	203	204	568	606	3600	328	134	137	106	172	e115
12	149	220	260	470	554	2510	298	168	128	138	124	e110
13	147	194	283	389	501	3220	276	187	135	171	91	e105
14	144	202	301	334	457	9360	262	166	151	161	87	e100
15	143	288	277	299	422	7810	403	153	190	135	85	e94
16	157	280	249	275	397	7230	356	147	173	123	82	e82
17	163	248	227	256	397	3890	286	139	157	121	79	e79
18	150	225	213	242	695	2090	248	133	144	140	78	e76
19	144	204	217	231	907	1190	236	128	140	150	75	e72
20	141	193	239	219	1050	900	223	124	127	133	75	e68
21	141	185	234	212	817	754	213	122	116	119	89	e70
22	139	175	226	216	644	666	203	120	109	110	83	e72
23	135	170	231	1380	553	603	194	119	133	103	79	e74
24	133	168	282	2980	500	554	186	124	140	107	81	e72
25	132	168	425	3230	452	587	179	122	141	113	93	e74
26	132	166	594	2190	412	1710	183	120	300	136	121	e76
27	132	164	561	1050	393	2390	216	119	260	142	102	e78
28	131	164	446	618	1020	1600	614	119	185	166	91	79
29	130	165	495	502	---	863	464	147	171	154	88	137
30	129	164	522	3310	---	675	291	185	256	126	86	224
31	129	---	543	8710	---	835	---	450	---	111	83	---
TOTAL	4589	5341	8746	33262	53586	67118	12098	4928	5128	4173	2825	2812
MEAN	148	178	282	1073	1914	2165	403	159	171	135	91.1	93.7
MAX	194	288	594	8710	14400	9360	1110	450	383	234	172	224
MIN	129	129	164	212	393	554	179	119	109	103	71	68
CFSM	.20	.24	.38	1.44	2.58	2.91	.54	.21	.23	.18	.12	.13
IN.	.23	.27	.44	1.67	2.68	3.36	.61	.25	.26	.21	.14	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1999, BY WATER YEAR (WY)

MEAN	290	595	1151	1863	2361	2327	2145	1098	447	508	334	277
MAX	1660	3674	6085	5792	7841	5649	7455	4750	1609	4373	980	1264
(WY)	1985	1994	1962	1962	1990	1980	1974	1991	1989	1940	1960	1957
MIN	67.8	89.7	177	233	361	385	217	119	121	102	82.4	69.2
(WY)	1953	1957	1953	1956	1957	1955	1963	1963	1988	1952	1954	1954

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1938 - 1999
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ANNUAL TOTAL	466708		204606			
ANNUAL MEAN	1279		561		1110	
HIGHEST ANNUAL MEAN					2291	1980
LOWEST ANNUAL MEAN					393	1963
HIGHEST DAILY MEAN	14600	Jan 10	14400	Feb 2	51000	Apr 14 1974
LOWEST DAILY MEAN	125	Sep 8	68	Sep 20	55	Aug 29 1957
ANNUAL SEVEN-DAY MINIMUM	128	Sep 5	72	Sep 19	57	Aug 24 1957
INSTANTANEOUS PEAK FLOW			15300	Feb 2	54200	Apr 14 1974
INSTANTANEOUS PEAK STAGE			21.89	Feb 2	32.60	Apr 14 1974
INSTANTANEOUS LOW FLOW			68a	Sep 20	55	Aug 28 1957
ANNUAL RUNOFF (CFSM)	1.72		.75		1.49	
ANNUAL RUNOFF (INCHES)	23.37		10.24		20.29	
10 PERCENT EXCEEDS	3700		903		2780	
50 PERCENT EXCEEDS	283		170		371	
90 PERCENT EXCEEDS	141		89		117	

e Estimated

a Minimum observed, may have been lower during period of estimated record.

PASCAGOULA RIVER BASIN

61

02472500 BOUIE CREEK NEAR HATTIESBURG, MS

LOCATION.--Lat 31°25'33", long 89°24'53", in NW1/4 NW1/4 SW1/4 sec.4, T.5 N., R.14 W., St. Stephens Meridian, Forrest County, Hydrologic Unit 03170004, on left bank 25 ft downstream from upstream bridge of dual bridges on U.S. Highway 49, 1.0 mi upstream from Okatoma Creek, 2.2 mi southwest of Lux, 10.2 mi northwest of Hattiesburg, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--304 mi².

PERIOD OF RECORD.--September 1938 to current year. Prior to October 1989, published as Bowie Creek near Hattiesburg.

REVISED RECORDS.--WSP 1906: 1943(M).

GAGE.--Water-stage recorder. Datum of gage is 160.04 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to Dec. 8, 1938, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 30	1800	4,110	12.53	Mar. 14	0730	*7,350	*17.12
Mar. 9	1900	5,590	14.77				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228	164	182	211	2120	553	447	156	259	136	129	113
2	190	165	182	250	1440	362	327	155	184	133	126	114
3	180	168	182	375	872	274	272	153	162	133	120	115
4	179	171	182	380	562	254	249	153	153	137	119	115
5	227	170	182	261	499	235	237	155	146	138	117	118
6	212	166	180	223	344	227	228	157	142	134	117	130
7	201	164	180	212	296	301	222	161	140	132	115	123
8	223	165	184	212	276	257	221	157	138	147	114	123
9	235	165	184	215	261	4010	210	152	137	162	117	125
10	202	176	186	210	621	5340	204	149	135	138	149	121
11	184	236	188	202	592	2620	198	148	135	137	313	120
12	179	259	192	196	334	925	192	151	149	135	204	115
13	176	207	210	194	275	2580	186	155	144	139	148	113
14	175	187	211	194	250	6580	182	153	213	140	132	111
15	173	217	203	193	234	4210	182	150	243	132	125	110
16	170	290	194	190	225	2660	240	148	439	127	121	107
17	173	247	187	185	236	1190	207	146	192	126	119	107
18	174	209	182	184	556	616	184	144	158	126	119	107
19	172	196	183	183	425	458	177	143	143	127	117	108
20	172	190	191	182	302	373	175	141	136	124	116	108
21	171	186	215	180	256	327	173	141	131	124	116	109
22	169	183	202	187	237	300	169	140	133	124	115	110
23	166	183	193	405	225	282	167	139	180	124	115	110
24	165	182	200	777	216	268	165	159	148	120	117	110
25	164	182	229	489	211	266	167	165	151	131	116	111
26	165	183	241	262	207	291	168	154	213	133	117	111
27	165	183	214	227	206	301	173	148	178	141	117	112
28	165	182	221	211	367	261	170	148	164	130	116	112
29	165	182	338	208	---	243	165	239	150	128	114	124
30	165	182	304	2870	---	239	160	459	140	129	115	150
31	164	---	235	3530	---	347	---	342	---	137	114	---
TOTAL	5649	5740	6357	13798	12645	37150	6217	5261	5136	4124	4009	3462
MEAN	182	191	205	445	452	1198	207	170	171	133	129	115
MAX	235	290	338	3530	2120	6580	447	459	439	162	313	150
MIN	164	164	180	180	206	227	160	139	131	120	114	107
CFSM	.60	.63	.67	1.46	1.49	3.94	.68	.56	.56	.44	.43	.38
IN.	.69	.70	.78	1.69	1.55	4.55	.76	.64	.63	.50	.49	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1999, BY WATER YEAR (WY)

	MEAN	206	306	499	662	791	819	722	480	268	263	230	226
MAX	841	1343	1708	1867	3294	2216	3084	2219	734	1553	660	1082	
(WY)	1986	1949	1962	1947	1961	1980	1974	1990	1997	1940	1949	1958	
MIN	102	108	169	139	203	203	162	125	124	128	112	99.1	
(WY)	1957	1957	1955	1957	1968	1955	1963	1956	1955	1968	1954	1954	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1938 - 1999
ANNUAL TOTAL	171516	109548	
ANNUAL MEAN	470	300	454
HIGHEST ANNUAL MEAN			868
LOWEST ANNUAL MEAN			213
HIGHEST DAILY MEAN	7770	Jan 8	33500
LOWEST DAILY MEAN	147	Aug 29	83
ANNUAL SEVEN-DAY MINIMUM	150	Aug 25	84
INSTANTANEOUS PEAK FLOW			7350
INSTANTANEOUS PEAK STAGE			17.12
INSTANTANEOUS LOW FLOW			106
ANNUAL RUNOFF (CFSM)	1.55	.99	1.49
ANNUAL RUNOFF (INCHES)	20.99	13.41	20.31
10 PERCENT EXCEEDS	943	343	869
50 PERCENT EXCEEDS	205	179	231
90 PERCENT EXCEEDS	166	117	134

PASCAGOULA RIVER BASIN

02472850 OKATOMA CREEK AT SANFORD, MS

LOCATION.--Lat 31°29'21", long 88°26'01". SW1/4 NE1/4 NE1/4 sec.18, T.6 N., R.14 W., St. Stephens Meridian, Covington County, Hydrologic Unit 03170004, near left bank on downstream side of bridge on State Highway 598, 0.3 mi west of Sanford, and 2.6 mi east from intersection of State Highway 598 and U.S. Highway 49, and 6.1 mi upstream from mouth.

DRAINAGE AREA.--257 mi².

PERIOD OF RECORD.--October 1994 to current year, occasional discharge measurements, water years 1965-1969, 1989.

GAGE.--Water-stage recorder. Datum of gage is 183.33 ft above sea level (Mississippi Department of Transportation bench mark).

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	114	134	181	2410	618	563	142	176	114	110	82
2	136	117	134	274	2850	468	412	134	146	107	98	81
3	124	123	135	469	1520	318	318	130	129	100	93	82
4	122	128	138	454	716	269	272	128	119	96	88	82
5	143	128	139	285	425	253	254	133	113	93	85	122
6	132	121	140	217	338	284	244	144	108	92	83	140
7	147	119	140	201	293	281	231	143	108	89	81	252
8	181	119	147	209	269	280	216	132	107	158	80	137
9	185	120	149	213	388	4680	206	125	102	321	98	135
10	146	169	162	205	700	1970	197	121	100	171	175	139
11	129	284	158	185	358	845	189	122	105	117	325	101
12	122	223	183	175	281	714	179	140	124	119	196	91
13	119	164	218	172	248	2180	171	137	109	128	124	87
14	117	160	199	166	226	3710	166	140	110	128	105	84
15	119	275	175	162	212	2880	224	157	204	114	94	82
16	134	335	157	159	207	2310	250	125	186	105	87	80
17	125	231	148	158	284	1370	184	117	135	101	84	78
18	123	182	144	159	492	606	165	114	120	99	83	78
19	119	161	154	157	462	429	157	112	111	102	81	77
20	118	151	184	155	341	359	156	110	105	110	79	78
21	117	143	198	155	288	319	153	108	96	101	79	78
22	115	140	173	177	249	290	151	107	95	94	78	78
23	111	139	158	766	230	269	149	107	157	91	79	77
24	111	139	196	1080	214	256	146	111	142	116	86	76
25	111	138	264	834	206	280	143	111	124	181	112	75
26	111	138	257	428	200	403	146	117	143	141	93	76
27	112	136	193	258	203	399	154	116	163	232	89	76
28	112	134	300	223	604	303	158	113	146	145	85	115
29	112	134	341	232	---	261	156	269	127	125	83	400
30	112	134	287	2950	---	258	155	309	115	140	82	361
31	113	---	206	2000	---	547	---	257	---	132	80	---
TOTAL	3939	4799	5711	13459	15214	28409	6265	4331	3825	3962	3195	3500
MEAN	127	160	184	434	543	916	209	140	128	128	103	117
MAX	185	335	341	2950	2850	4680	563	309	204	321	325	400
MIN	111	114	134	155	200	253	143	107	95	89	78	75
CFSM	.49	.62	.72	1.69	2.11	3.57	.81	.54	.50	.50	.40	.45
IN.	.57	.69	.83	1.95	2.20	4.11	.91	.63	.55	.57	.46	.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

MEAN	183	221	376	661	579	824	700	310	252	171	132	124
MAX	226	276	598	1520	830	1136	1384	718	545	282	186	154
(WY)	1996	1996	1998	1998	1998	1998	1997	1997	1997	1997	1997	1998
MIN	127	159	184	389	311	476	209	140	128	117	103	111
(WY)	1999	1997	1999	1997	1995	1997	1999	1999	1999	1996	1999	1997

SUMMARY STATISTICS

	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1995 - 1999	
ANNUAL TOTAL	158807		96609			
ANNUAL MEAN	435		265		377	
HIGHEST ANNUAL MEAN					484	1998
LOWEST ANNUAL MEAN					265	1999
HIGHEST DAILY MEAN	5290	Jan 7	4680	Mar 9	6910	Apr 29 1997
LOWEST DAILY MEAN	94	Aug 30	75	Sep 25	75	Sep 25 1999
ANNUAL SEVEN-DAY MINIMUM	99	Sep 5	77	Sep 21	77	Sep 21 1999
INSTANTANEOUS PEAK FLOW			5650	Mar 9	7150	Apr 29 1997
INSTANTANEOUS PEAK STAGE			16.72	Mar 9	19.69	Apr 29 1997
INSTANTANEOUS LOW FLOW			74	Sep 24, 25	74	Sep 24 1999
ANNUAL RUNOFF (CFSM)	1.69		1.03		1.47	
ANNUAL RUNOFF (INCHES)	22.99		13.98		19.92	
10 PERCENT EXCEEDS	1090		392		807	
50 PERCENT EXCEEDS	176		144		195	
90 PERCENT EXCEEDS	112		88		104	

02473000 LEAF RIVER AT HATTIESBURG, MS

LOCATION.--Lat 31°20'33", long 89°16'46", in SW1/4 NW1/4 sec.2, T.4 N., R.13 W., St. Stephens Meridian, Forrest County, Hydrologic Unit 03170005, on right downstream abutment of bridge on U.S. Highway 11, at eastern city limits of Hattiesburg, 150 ft downstream from Bouie Creek, 3,200 ft upstream from New Orleans and Northeastern Railroad bridge, and at mile 71.8.

DRAINAGE AREA.--1,748 mi².

PERIOD OF RECORD.--September 1938 to current year. Daily mean gage heights, published since January 1972. Gage-height records collected in the same vicinity since 1904 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 118.23 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to Jan. 15, 1939, nonrecording gage at same site and datum. Jan. 15, 1939 to Apr. 14, 1981, recording gage in concrete house on left bank 450 ft downstream from U.S. Highway 11.

REMARKS.--Estimated daily discharges: Oct. 9-13. Records good except for estimated daily discharges, which are poor. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1900 reached a stage of about 33.6 ft from reports of National Weather Service.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 30	1345	16,400	15.24	Mar. 10	0545	13,700	13.60
Feb. 3	0515	15,800	14.93	Mar. 14	0415	*26,300	*19.75

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1120	528	677	1150	13600	2900	2670	966	1510	829	594	398
2	858	543	679	1150	14600	3600	2640	870	1160	819	567	383
3	801	554	679	1510	15500	2990	2440	816	945	762	542	401
4	703	569	688	1860	11700	2090	2070	783	787	691	497	404
5	685	586	695	1810	5290	1740	1790	779	709	653	474	424
6	730	571	702	1460	3490	1680	1680	797	658	620	456	515
7	710	564	701	1140	2650	1850	1570	787	625	641	444	573
8	722	563	731	1030	2240	1800	1490	762	601	630	432	663
9	e790	572	753	993	2020	8470	1390	721	606	860	424	589
10	e730	625	748	999	2690	13300	1300	695	579	883	662	536
11	e680	892	791	1080	2630	10100	1230	673	579	801	890	510
12	e640	1060	810	1060	1960	6410	1160	689	620	729	973	473
13	e610	907	942	952	1640	9930	1100	743	614	742	719	438
14	590	778	998	866	1470	24200	1060	779	614	727	564	426
15	579	850	974	800	1350	19000	1320	738	950	705	494	409
16	584	1130	898	750	1270	15700	1380	707	1240	650	455	394
17	600	1140	824	721	1260	11700	1370	661	979	634	429	383
18	605	953	780	702	1960	6520	1110	635	771	651	411	374
19	591	849	762	676	2310	4060	1010	611	681	621	399	372
20	573	788	779	659	2200	2970	976	592	636	632	394	371
21	560	744	860	665	2090	2590	951	577	599	620	399	370
22	542	722	853	693	1740	2340	922	566	581	583	396	363
23	531	705	795	1210	1510	2120	898	677	643	559	400	363
24	523	701	834	3690	1380	1950	871	778	733	539	395	362
25	519	696	976	4830	1290	1870	874	625	736	584	496	363
26	518	695	1180	4380	1220	2070	855	605	792	743	596	367
27	518	686	1250	2910	1180	3240	875	611	969	702	478	365
28	520	681	1290	1800	1470	3420	905	590	1040	791	450	371
29	521	677	1410	1460	---	2630	1300	675	873	692	424	514
30	522	679	1430	13200	---	2080	1180	1340	786	650	406	893
31	523	---	1260	14300	---	2230	---	1650	---	633	396	---
TOTAL	19698	22008	27749	70506	103710	177550	40387	23498	23616	21376	15656	13367
MEAN	635	734	895	2274	3704	5727	1346	758	787	690	505	446
MAX	1120	1140	1430	14300	15500	24200	2670	1650	1510	883	973	893
MIN	518	528	677	659	1180	1680	855	566	579	539	394	362
CFSM	.36	.42	.51	1.30	2.12	3.28	.77	.43	.45	.39	.29	.25
IN.	.42	.47	.59	1.50	2.21	3.78	.86	.50	.50	.45	.33	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1999, BY WATER YEAR (WY)

MEAN	992	1628	2920	4188	5112	5218	4753	2895	1447	1463	1157	1075
MAX	3187	6985	11840	11620	15550	10910	16810	11520	3958	10260	3644	4275
(WY)	1986	1949	1962	1990	1961	1943	1980	1991	1989	1940	1992	1979
MIN	347	456	756	797	1090	1221	825	544	529	521	423	377
(WY)	1964	1955	1955	1957	1957	1955	1963	1963	1963	1952	1954	1954

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1938 - 1999

ANNUAL TOTAL	1034140	559121	
ANNUAL MEAN	2833	1532	2725
HIGHEST ANNUAL MEAN			5121
LOWEST ANNUAL MEAN			1191
HIGHEST DAILY MEAN	30400	Jan 8	110000
LOWEST DAILY MEAN	518	Oct 26	195
ANNUAL SEVEN-DAY MINIMUM	520	Oct 24	327
INSTANTANEOUS PEAK FLOW			26300
INSTANTANEOUS PEAK STAGE			19.75
INSTANTANEOUS LOW FLOW			359
ANNUAL RUNOFF (CFSM)	1.62	.88	318
ANNUAL RUNOFF (INCHES)	22.01	11.90	1.56
10 PERCENT EXCEEDS	7140	2500	21.18
50 PERCENT EXCEEDS	974	762	6280
90 PERCENT EXCEEDS	588	453	1310
			566

e Estimated

PASCAGOULA RIVER BASIN

02473000 LEAF RIVER AT HATTIESBURG, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.68	1.69	1.82	2.72	13.52	4.90	4.52	2.27	3.17	2.04	1.66	1.32
2	2.25	1.72	1.82	2.73	14.18	5.65	4.47	2.12	2.66	2.02	1.62	1.29
3	2.16	1.73	1.82	3.27	14.71	5.00	4.16	2.03	2.32	1.92	1.57	1.32
4	1.99	1.76	1.82	3.75	12.21	3.93	3.66	1.98	2.05	1.79	1.49	1.33
5	1.96	1.79	1.84	3.70	7.26	3.46	3.31	1.98	1.91	1.71	1.44	1.37
6	2.04	1.75	1.84	3.22	5.53	3.36	3.16	2.02	1.81	1.65	1.41	1.55
7	2.02	1.73	1.84	2.77	4.62	3.56	3.02	2.01	1.75	1.69	1.39	1.67
8	2.04	1.73	1.88	2.61	4.15	3.46	2.92	1.97	1.70	1.66	1.37	1.84
9	---	1.74	1.92	2.57	3.88	9.44	2.78	1.90	1.70	2.06	1.35	1.70
10	---	1.84	1.90	2.59	4.66	13.34	2.66	1.86	1.65	2.10	1.82	1.60
11	---	2.30	1.97	2.72	4.60	11.05	2.56	1.83	1.65	1.96	2.23	1.54
12	---	2.57	2.00	2.70	3.79	8.24	2.46	1.86	1.72	1.83	2.37	1.47
13	---	2.31	2.22	2.54	3.38	10.56	2.38	1.96	1.71	1.85	1.95	1.39
14	1.81	2.09	2.30	2.41	3.14	18.98	2.32	2.04	1.71	1.83	1.66	1.36
15	1.79	2.21	2.27	2.31	2.97	16.73	2.71	1.97	2.28	1.79	1.53	1.32
16	1.80	2.65	2.16	2.23	2.86	14.84	2.80	1.92	2.73	1.70	1.45	1.29
17	1.83	2.66	2.05	2.19	2.84	12.22	2.80	1.84	2.33	1.67	1.40	1.27
18	1.85	2.37	1.98	2.17	3.78	8.31	2.42	1.80	1.98	1.71	1.37	1.24
19	1.82	2.19	1.96	2.13	4.23	6.11	2.28	1.76	1.81	1.66	1.34	1.24
20	1.79	2.08	2.00	2.08	4.10	4.95	2.22	1.73	1.73	1.68	1.33	1.24
21	1.76	2.00	2.15	2.07	3.96	4.39	2.19	1.71	1.66	1.67	1.34	1.23
22	1.74	1.95	2.15	2.10	3.52	4.01	2.15	1.68	1.61	1.60	1.32	1.21
23	1.72	1.91	2.06	2.90	3.21	3.72	2.11	1.88	1.73	1.56	1.33	1.21
24	1.70	1.90	2.14	5.72	3.02	3.51	2.07	2.06	1.89	1.52	1.32	1.21
25	1.69	1.89	2.38	6.86	2.89	3.42	2.08	1.79	1.89	1.61	1.51	1.21
26	1.70	1.88	2.70	6.43	2.79	3.67	2.06	1.75	1.99	1.91	1.72	1.22
27	1.70	1.86	2.83	4.92	2.72	5.24	2.10	1.75	2.28	1.84	1.50	1.21
28	1.70	1.84	2.89	3.63	3.14	5.46	---	1.71	2.40	2.01	1.44	1.23
29	1.70	1.83	3.08	3.15	---	4.45	---	1.86	2.12	1.83	1.38	1.52
30	1.69	1.83	3.12	13.06	---	3.67	2.60	2.91	1.97	1.76	1.34	2.22
31	1.69	---	2.88	13.97	---	3.87	---	3.36	---	1.73	1.31	---
MEAN	---	1.99	2.19	3.81	5.20	6.89	---	1.98	2.00	1.79	1.52	1.39
MAX	---	2.66	3.12	13.97	14.71	18.98	---	3.36	3.17	2.10	2.37	2.22
MIN	---	1.69	1.82	2.07	2.72	3.36	---	1.68	1.61	1.52	1.31	1.21

02473460 TALLAHALA CREEK AT WALDRUP, MS

LOCATION.--Lat 31°57'58", long 89°06'54", in SW1/4 NW1/4 SW1/4 sec.31, T.2 N., R.12 E., Choctaw Meridian, Jasper County, Hydrologic Unit 03170005, near right bank on downstream side of bridge on State Highway 528, 0.8 mi west of Waldrup, 11.6 mi east of Bay Springs, and 91.0 mi upstream from mouth.

DRAINAGE AREA.--102 mi².

PERIOD OF RECORD.--Occasional discharge measurements, water years 1961, 1964-65, and annual maximums, water years 1969-79. October 1979 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 290.00 ft above sea level. Prior to October 1979, at datum 290.00 ft lower. October 1979 to September 1980, non-recording gage and crest-stage gage at same site and datum.

REMARKS.--No estimated daily discharge. Records good. Satellite telemeter at station. Statistics shown below are for water years 1980 to the current year, except for instantaneous extremes, which are shown for the entire period of record at the present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 31	0815	*6,610	*20.37	Mar. 14	1500	5,510	19.63

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	7.8	16	19	1870	511	226	27	73	12	3.8	2.7
2	13	8.2	16	26	533	124	108	20	27	8.6	3.5	4.0
3	12	9.8	16	78	140	77	71	16	16	7.2	3.2	3.6
4	10	9.8	16	59	121	65	55	14	11	6.2	2.9	3.1
5	9.0	9.1	17	31	130	51	51	13	8.8	5.6	2.6	3.2
6	8.6	9.4	18	23	81	51	46	13	7.7	4.9	2.3	3.5
7	8.9	9.5	17	21	66	53	37	13	6.5	4.6	2.2	4.0
8	9.8	9.8	17	23	61	42	33	11	7.7	4.7	2.2	5.9
9	10	10	18	27	51	731	29	9.9	15	22	2.5	4.3
10	8.5	11	19	31	47	1060	26	8.7	6.5	13	3.3	4.1
11	7.8	17	18	24	44	266	23	8.1	5.9	7.8	4.3	3.9
12	7.2	14	23	20	39	101	20	17	8.8	6.2	4.1	3.4
13	7.1	9.9	24	18	36	467	17	23	8.6	7.4	3.5	3.0
14	6.9	10	24	16	33	4280	16	15	9.0	7.7	3.0	2.9
15	6.8	15	22	15	31	2190	189	11	9.2	5.8	2.6	2.7
16	7.5	16	19	15	29	523	72	9.3	8.8	5.0	2.2	2.9
17	8.1	16	18	14	35	148	35	8.0	8.3	4.4	1.9	2.4
18	7.5	13	17	14	147	105	24	7.3	7.2	5.4	2.5	2.1
19	7.1	11	18	14	140	83	20	6.7	6.8	4.6	2.7	1.9
20	7.1	11	20	13	118	69	19	6.2	5.8	4.9	2.2	2.1
21	7.1	11	19	12	73	61	16	5.7	5.1	4.6	2.5	2.4
22	6.9	13	17	24	60	55	14	5.4	4.7	3.9	3.1	2.5
23	6.1	13	18	745	49	49	12	5.4	4.5	4.0	2.8	2.8
24	6.1	13	25	705	43	44	12	6.0	4.7	4.8	2.6	2.8
25	6.4	14	38	113	38	163	13	8.1	6.3	4.9	4.9	2.5
26	6.7	15	31	57	34	675	15	6.9	29	9.6	7.5	2.4
27	6.8	16	22	41	34	273	152	6.4	28	7.7	5.6	2.5
28	7.0	15	22	34	514	92	962	6.6	51	7.7	4.0	2.9
29	7.2	15	35	33	---	66	501	5.8	22	5.2	3.4	7.1
30	7.8	15	37	1310	---	56	45	8.7	16	4.7	3.2	15
31	8.0	---	24	5050	---	170	---	62	---	4.4	3.0	---
TOTAL	259.0	367.3	661	8625	4597	12701	2859	384.2	428.9	209.5	100.1	108.6
MEAN	8.35	12.2	21.3	278	164	410	95.3	12.4	14.3	6.76	3.23	3.62
MAX	20	17	38	5050	1870	4280	962	62	73	22	7.5	15
MIN	6.1	7.8	16	12	29	42	12	5.4	4.5	3.9	1.9	1.9
CFSM	.08	.12	.21	2.73	1.61	4.02	.93	.12	.14	.07	.03	.04
IN.	.09	.13	.24	3.15	1.68	4.63	1.04	.14	.16	.08	.04	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1999, BY WATER YEAR (WY)

	MEAN	47.5	126	188	353	407	379	288	133	55.1	66.6	30.6	26.2
MAX	294	367	710	1090	1119	880	737	739	221	429	165	263	
(WY)	1986	1987	1983	1998	1990	1980	1991	1991	1983	1989	1982	1988	
MIN	4.83	6.79	14.3	30.5	115	131	35.8	11.8	2.90	6.76	3.23	3.62	
(WY)	1988	1982	1991	1981	1995	1982	1986	1988	1988	1999	1999	1999	

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1980 - 1999

	ANNUAL TOTAL	72548.1	31300.6	174	301	1983
ANNUAL MEAN	199	85.8				1999
HIGHEST ANNUAL MEAN					85.8	
LOWEST ANNUAL MEAN						
HIGHEST DAILY MEAN	6450	Jan 7	5050	Jan 31	10900	Feb 16 1990
LOWEST DAILY MEAN	6.1	Oct 23	1.9	Aug 17	1.5	Jul 1 1988
ANNUAL SEVEN-DAY MINIMUM	6.6	Oct 22	2.3	Sep 17	1.9	Jun 25 1988
INSTANTANEOUS PEAK FLOW			6610	Jan 31	17900	Apr 13 1974
INSTANTANEOUS PEAK STAGE			20.37	Jan 31	23.18	Apr 13 1974
INSTANTANEOUS LOW FLOW			1.9	Aug 17, 20, Sep 19	1.5	Jul 1 1988
ANNUAL RUNOFF (CFSM)	1.95		.84		1.70	
ANNUAL RUNOFF (INCHES)	26.46		11.42		23.14	
10 PERCENT EXCEEDS	483		96		417	
50 PERCENT EXCEEDS	19		13		31	
90 PERCENT EXCEEDS	7.7		3.2		6.1	

LOCATION.--Lat 31°40'51", long 89°06'57", in NE1/4 NE1/4 sec.8, T.8 N., R.11 W., St. Stephens Meridian, Jones County, Hydrologic Unit 03170005, on right bank 45 ft upstream of bridge on State Highway 15, 0.5 mi upstream from Illinois Central and Gulf Railroad bridge, 0.5 mi southeast of city limits of Laurel, 13.1 mi upstream from Tallahoma Creek, and 54.0 mi from mouth.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

e Estimated

PASCAGOULA RIVER BASIN

67

02474500 TALLAHALA CREEK NEAR RUNNELSTOWN, MS

LOCATION.--Lat 31°19'58", long 89°06'44", in SE1/4 SE1/4 SE1/4 sec.5, T.4 N., R.11 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170005, on right bank at downstream side of bridge on county highway between Sunrise and Runnelstown, 3.0 mi south of Runnelstown, and 9 mi upstream from mouth.

DRAINAGE AREA.--612 mi².

PERIOD OF RECORD.--October 1939 to September 1982. October 1982 to September 1984 (high water records only). October 1984 to current year. Monthly discharge only for October 1939, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 104.58 ft above sea level. Prior to Oct. 1, 1971, at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Jun. 9-15, Jul. 27 - Aug. 3, Aug. 15-19 and Sept 13-16. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since about 1865, 30 1/2 ft in April 1900, flood in December 1919 reached a stage of 26 1/2 ft, and flood in about 1865 reached a stage between 26 1/2 ft and 30 1/2 ft, all from information by local residents, at datum 5.00 ft higher.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 30	1345	6,350	16.85	Mar. 14	0600	*9,450	*20.20
Mar. 9	1330	5,270	15.47				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	642	70	98	324	2880	567	779	977	160	200	e72	63
2	458	69	100	348	2720	733	838	722	122	176	e74	71
3	333	72	102	445	3140	997	857	370	142	144	e72	76
4	275	70	103	485	4200	818	705	256	260	124	66	69
5	192	71	104	523	4720	534	554	213	184	108	61	73
6	160	71	104	471	3780	436	472	196	140	95	60	81
7	157	72	105	401	1350	717	422	180	113	88	59	131
8	167	74	108	340	872	595	383	162	99	84	57	97
9	156	73	123	310	700	3940	350	151	e100	112	59	81
10	134	79	138	291	964	3840	318	142	e120	106	64	104
11	123	120	132	274	799	2080	287	132	e130	82	82	96
12	115	193	138	265	606	1980	261	130	e140	91	92	72
13	106	201	151	262	499	3450	242	181	e170	142	82	e68
14	102	185	159	255	426	8610	225	660	e240	122	78	e66
15	99	157	165	242	377	5940	301	384	e278	93	e72	e63
16	93	164	181	229	342	4050	296	244	306	107	e69	e59
17	88	169	180	222	326	3580	333	186	285	93	e64	56
18	83	182	167	212	518	4310	510	154	175	88	e59	53
19	81	170	160	204	746	4740	355	136	141	78	e54	52
20	81	155	160	201	676	3680	278	123	114	77	53	51
21	82	138	164	201	654	1210	226	114	96	71	52	51
22	79	128	163	199	578	846	199	107	86	70	51	50
23	75	118	180	214	488	709	184	103	85	72	50	49
24	74	111	194	532	415	616	173	106	127	68	52	48
25	73	110	234	1050	369	558	166	97	152	65	53	48
26	71	107	269	1100	342	562	174	93	152	66	111	48
27	68	105	290	959	320	621	203	91	233	e72	147	48
28	70	101	317	610	388	973	344	106	319	e74	103	48
29	71	101	405	437	---	1080	273	112	343	e76	75	54
30	71	100	390	4880	---	726	573	252	254	e74	68	72
31	71	---	368	4020	---	661	---	325	---	e70	66	---
TOTAL	4450	3536	5652	20506	34195	64159	11281	7205	5266	2988	2177	1998
MEAN	144	118	182	661	1221	2070	376	232	176	96.4	70.2	66.6
MAX	642	201	405	4880	4720	8610	857	977	343	200	147	131
MIN	68	69	98	199	320	436	166	91	85	65	50	48
CFSM	.23	.19	.30	1.08	2.00	3.38	.61	.38	.29	.16	.11	.11
IN.	.27	.21	.34	1.25	2.08	3.90	.69	.44	.32	.18	.13	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

	MEAN	220	478	1040	1560	1908	2012	1774	1008	388	431	265	250
MAX	936	2635	4400	5061	5750	4291	6595	4728	1578	4294	933	1134	
(WY)	1958	1949	1962	1998	1961	1948	1980	1991	1997	1940	1944	1957	
MIN	32.5	39.4	97.1	131	273	343	162	77.1	71.0	70.3	56.4	36.8	
(WY)	1964	1964	1955	1957	1957	1957	1963	1963	1988	1963	1951	1954	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1940 - 1999
ANNUAL TOTAL	387974	163413	
ANNUAL MEAN	1063	448	936
HIGHEST ANNUAL MEAN			1949
LOWEST ANNUAL MEAN			330
HIGHEST DAILY MEAN	13900	Jan 11	29600
LOWEST DAILY MEAN	52	Aug 31	29
ANNUAL SEVEN-DAY MINIMUM	60	Aug 25	31
INSTANTANEOUS PEAK FLOW			32800
INSTANTANEOUS PEAK STAGE			30.07
INSTANTANEOUS LOW FLOW			29
ANNUAL RUNOFF (CFSM)	1.74	.73	1.53
ANNUAL RUNOFF (INCHES)	23.58	9.93	20.77
10 PERCENT EXCEEDS	2930	787	2600
50 PERCENT EXCEEDS	201	157	367
90 PERCENT EXCEEDS	82	67	77

e Estimated

02474560 LEAF RIVER NEAR NEW AUGUSTA, MS

LOCATION.--Lat 31°13'18", long 89°03'02", in NE1/4 SW1/4 sec.13, T.3 N., R.11 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170005, on left bank at downstream abutment of bridge on State Highway 29, 4.2 mi downstream from Tallahala Creek and 1.4 mi north of courthouse in New Augusta, and at mile 43.6.

DRAINAGE AREA.--2,542 mi².

PERIOD OF RECORD.--December 1983 to current year. Daily mean gage heights published since December 1983.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 72.00 ft above sea level.

REMARKS.--Estimated daily discharges: Apr. 30 - May 3, Jul. 13-15 and Aug. 26-27. Records good except for estimated discharges, which are poor. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of February 1961 and April 1974 reached stage of 35.3 ft, discharge, 112,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 17,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 31	1300	22,400	20.34	Mar. 15	1330	*28,800	*23.12

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2550	745	839	1540	19500	3180	3430	e1800	1740	1190	887	621
2	1950	766	834	1540	17100	4450	3640	e1680	1520	1210	845	609
3	1570	776	832	1910	17100	4740	3510	e1340	1250	1150	859	613
4	1440	770	835	2130	17600	3930	3090	1170	1190	1080	798	611
5	1250	771	841	2290	14100	3040	2620	1090	1080	1020	751	607
6	1200	774	843	2120	8910	2730	2360	1080	984	974	729	693
7	1240	764	841	1730	5580	2880	2210	1070	920	941	709	718
8	1210	761	853	1510	4230	2980	2070	1030	877	1020	699	816
9	1200	763	886	1420	3730	5880	1950	985	875	1210	702	855
10	1190	816	889	1380	3940	14600	1830	947	869	1250	699	731
11	1100	974	899	1390	4590	14700	1710	915	852	1140	944	722
12	1020	1190	922	1440	3720	10400	1600	894	866	1330	1170	661
13	978	1210	973	1370	3160	9380	1510	917	898	e1350	1100	622
14	943	1100	1060	1300	2850	20300	1440	1350	907	e1240	901	587
15	921	1090	1070	1230	2650	27900	1560	1200	1260	e1080	791	571
16	904	1200	1060	1170	2510	25400	1710	1040	1450	1020	737	537
17	899	1370	1010	1130	2420	20400	1730	948	1650	982	699	518
18	890	1270	959	1110	2790	15600	1760	886	1220	986	680	501
19	888	1130	942	1090	3720	10600	1510	845	1040	947	658	493
20	864	1030	951	1060	3610	8030	1360	813	953	924	652	491
21	841	973	973	1040	3490	4820	1270	785	905	923	663	497
22	820	923	1030	1060	3170	3760	1220	748	875	903	646	481
23	808	908	1000	1300	2820	3330	1170	784	930	872	646	474
24	785	886	1010	2420	2570	3030	1140	1140	974	848	651	475
25	775	876	1130	5030	2400	2830	1150	886	1090	833	662	472
26	766	871	1290	5270	2280	2800	1120	792	1220	909	e830	473
27	756	863	1440	4370	2200	3450	1110	772	1230	1000	e860	476
28	748	855	1590	2950	2290	4630	1250	779	1420	1040	808	478
29	753	843	1720	2120	---	4330	1360	797	1490	1020	710	544
30	753	841	1800	13000	---	3310	e1650	1100	1310	963	656	743
31	748	---	1680	21900	---	2950	---	1890	---	913	637	---
TOTAL	32752	28109	33002	90320	165030	250360	55040	32473	33845	32268	23779	17690
MEAN	1057	937	1065	2914	5894	8076	1835	1048	1128	1041	767	590
MAX	2550	1370	1800	21900	19500	27900	3640	1890	1740	1350	1170	855
MIN	748	745	832	1040	2200	2730	1110	748	852	833	637	472
CFSM	.42	.37	.42	1.15	2.32	3.18	.72	.41	.44	.41	.30	.23
IN.	.48	.41	.48	1.32	2.42	3.66	.81	.48	.50	.47	.35	.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1999, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	1559	2816	3571	7159	7508	7390	5035	4371	2499	2145	1503	1250				
MAX	3904	6466	7355	16280	21510	14330	9662	18250	6190	6709	2516	3485				
(WY)	1985	1994	1987	1998	1990	1987	1991	1991	1997	1993	1985	1988				
MIN	713	912	1065	2389	3268	3645	1624	1048	757	916	767	590				
(WY)	1988	1991	1999	1988	1995	1988	1986	1999	1988	1995	1999	1999				

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1984 - 1999
ANNUAL TOTAL	1518279	794668	
ANNUAL MEAN	4160	2177	3918
HIGHEST ANNUAL MEAN			6332
LOWEST ANNUAL MEAN			2177
HIGHEST DAILY MEAN	41700	Jan 10	27900
LOWEST DAILY MEAN	745	Nov 1	472
ANNUAL SEVEN-DAY MINIMUM	753	Oct 26	476
INSTANTANEOUS PEAK FLOW			28800
INSTANTANEOUS PEAK STAGE			23.12
INSTANTANEOUS LOW FLOW			466
ANNUAL RUNOFF (CFSM)	1.64	.86	1.54
ANNUAL RUNOFF (INCHES)	22.22	11.63	20.94
10 PERCENT EXCEEDS	10600	3720	9050
50 PERCENT EXCEEDS	1350	1070	2060
90 PERCENT EXCEEDS	853	699	863

e Estimated

PASCAGOULA RIVER BASIN

69

02474560 LEAF RIVER NEAR NEW AUGUSTA, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.71	2.38	2.47	3.52	18.64	5.17	6.01	---	3.92	2.80	2.25	1.89
2	3.96	2.42	2.47	3.51	16.97	6.55	6.25	---	3.58	2.82	2.17	1.87
3	3.43	2.43	2.46	4.03	16.93	6.85	6.11	---	3.17	2.70	2.21	1.89
4	3.26	2.42	2.46	4.33	17.30	6.00	5.63	3.14	3.07	2.58	2.10	1.89
5	2.98	2.42	2.47	4.53	14.78	5.02	5.07	3.01	2.88	2.47	2.02	1.88
6	2.92	2.42	2.47	4.31	10.82	4.64	4.75	2.99	2.71	2.39	1.98	2.06
7	2.99	2.40	2.47	3.78	7.65	4.83	4.55	2.99	2.59	2.32	1.95	2.11
8	2.96	2.39	2.48	3.46	6.33	4.94	4.37	2.92	2.51	2.45	1.94	2.29
9	2.95	2.40	2.54	3.33	5.79	7.77	4.22	2.85	2.49	2.74	1.94	2.36
10	2.95	2.49	2.54	3.26	6.01	15.18	4.05	2.78	2.47	2.80	1.95	2.15
11	2.82	2.76	2.56	3.28	6.69	15.26	3.89	2.74	2.43	2.60	2.39	2.13
12	2.70	3.11	2.59	3.35	5.78	12.07	3.74	2.70	2.45	2.90	2.77	2.02
13	2.64	3.14	2.68	3.25	5.15	11.18	3.61	2.74	2.49	---	2.66	1.95
14	2.59	2.97	2.82	3.13	4.79	18.94	3.51	3.44	2.50	---	2.32	1.89
15	2.56	2.94	2.84	3.01	4.55	22.76	3.69	3.21	3.06	---	2.14	1.86
16	2.54	3.12	2.81	2.92	4.37	21.73	3.90	2.95	3.34	2.40	2.04	1.79
17	2.55	3.38	2.72	2.86	4.27	19.18	3.94	2.80	3.63	2.35	1.97	1.76
18	2.54	3.22	2.64	2.81	4.72	15.89	3.99	2.70	2.97	2.36	1.94	1.73
19	2.55	3.00	2.61	2.78	5.78	12.19	3.62	2.63	2.67	2.30	1.90	1.71
20	2.52	2.84	2.63	2.74	5.66	10.24	3.41	2.58	2.52	2.26	1.90	1.71
21	2.49	2.74	2.66	2.71	5.53	7.48	3.27	2.52	2.42	2.26	1.92	1.73
22	2.47	2.65	2.75	2.73	5.16	6.38	3.19	2.45	2.36	2.24	1.89	1.70
23	2.45	2.61	2.70	3.11	4.75	5.90	3.11	2.50	2.45	2.18	1.90	1.68
24	2.43	2.58	2.72	4.61	4.45	5.56	3.07	3.10	2.51	2.15	1.91	1.68
25	2.42	2.56	2.91	7.53	4.23	5.33	3.09	2.66	2.69	2.12	1.93	1.68
26	2.42	2.55	3.15	7.77	4.09	5.29	3.04	2.49	2.90	2.26	---	1.68
27	2.41	2.53	3.39	6.86	3.98	6.03	3.02	2.44	2.90	2.43	---	1.69
28	2.40	2.51	3.60	5.30	4.10	7.29	3.25	2.44	3.17	2.49	2.23	1.69
29	2.40	2.49	3.78	4.28	---	6.99	3.43	2.47	3.27	2.47	2.05	1.83
30	2.40	2.48	3.90	13.68	---	5.88	---	2.96	2.99	2.37	1.95	2.21
31	2.39	---	3.73	20.06	---	5.47	---	4.14	---	2.29	1.92	---
MEAN	2.77	2.68	2.81	4.74	7.47	9.48	---	---	2.84	---	---	1.88
MAX	4.71	3.38	3.90	20.06	18.64	22.76	---	---	3.92	---	---	2.36
MIN	2.39	2.38	2.46	2.71	3.98	4.64	---	---	2.36	---	---	1.68

PASCAGOULA RIVER BASIN

02474600 BOGUE HOMO NEAR RICHTON, MS

LOCATION.--Lat 31°24'13", long 89°01'18", in NW1/4 NE1/4 NW1/4 sec.17, T.5 N., R.10 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170005, near right bank at downstream side of bridge on county highway, 0.5 mi upstream from Linda Creek, 1.0 mi downstream from Sweetwater Creek, 3.5 mi upstream from State Highway 42, and 6.0 mi north-west of Richton.

DRAINAGE AREA.--344 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1943, 1955-56, 1965. October 1970 to current year.

REVISED RECORDS.--WDR MS-87-1: 1986 (m).

GAGE.--Water-stage recorder. Elevation of gage is 117 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 11-15, 18-19. Records good except estimated daily discharges, which are poor. Flow slightly regulated by Lake Bogue Homo, 36 mi upstream. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood prior to January 1941, reached a stage of 26 1/2 ft and the flood of Mar. 21, 1943, reached a stage of 25.7 ft at site 3.5 mi downstream at different datum (from information by U. S. Army Corps of Engineers). A discharge of 4.7 ft³/s was measured Oct. 16, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 30	2030	6,110	14.61	Mar. 14	2015	*8,470	*18.04

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342	28	28	125	2570	206	285	98	59	111	16	22
2	193	30	29	127	1760	266	326	88	47	76	15	25
3	124	31	29	184	1510	280	366	67	43	55	15	33
4	131	31	30	213	1430	223	325	50	39	43	15	30
5	209	30	31	235	1410	171	224	43	37	36	15	25
6	203	29	31	218	1050	145	181	41	36	34	14	31
7	154	28	31	154	471	296	156	42	36	32	14	37
8	124	27	31	114	281	463	142	38	36	30	14	45
9	99	27	32	101	230	2610	132	35	39	61	15	41
10	96	32	32	94	473	3140	119	32	37	83	18	46
11	84	36	34	97	383	1970	e110	31	39	55	19	68
12	71	38	40	85	297	1280	e100	31	40	61	18	42
13	60	35	42	66	245	2280	e90	31	39	72	17	30
14	52	36	38	62	200	7370	e80	32	56	99	17	24
15	48	38	38	62	156	5450	e150	167	151	70	17	20
16	45	38	36	60	133	2950	258	216	107	48	15	17
17	44	42	34	63	123	2240	144	113	81	38	15	15
18	42	46	34	59	141	1800	e100	70	124	30	14	14
19	40	43	34	50	172	1400	e85	55	106	25	14	14
20	39	41	36	51	271	803	75	44	77	25	13	14
21	38	40	36	53	342	398	66	39	60	30	14	14
22	35	36	35	53	283	285	56	40	50	25	14	13
23	33	34	35	150	200	230	52	37	52	21	15	13
24	32	34	42	187	152	197	49	35	45	19	15	13
25	35	36	58	214	128	183	52	35	43	18	15	12
26	37	32	57	252	120	179	64	34	66	19	35	13
27	33	30	57	210	113	193	112	34	55	21	26	13
28	31	29	68	137	133	206	106	35	47	19	32	13
29	30	29	74	134	---	202	108	39	45	18	36	17
30	29	29	110	5250	---	175	100	57	111	18	27	20
31	28	---	133	4550	---	187	---	71	---	17	22	---
TOTAL	2561	1015	1375	13410	14777	37778	4213	1780	1803	1309	561	734
MEAN	82.6	33.8	44.4	433	528	1219	140	57.4	60.1	42.2	18.1	24.5
MAX	342	46	133	5250	2570	7370	366	216	151	111	36	68
MIN	28	27	28	50	113	145	49	31	36	17	13	12
MED	45	33	35	125	258	285	109	40	47	32	15	20
CFSM	.24	.10	.13	1.26	1.53	3.54	.41	.17	.17	.12	.05	.07
IN.	.28	.11	.15	1.45	1.60	4.09	.46	.19	.19	.14	.06	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1999, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	140	256	610	1085	1059	1077	935	554	194	142	84.8	152																	
MAX	881	1284	2118	2848	2545	2181	2799	2359	877	682	537	1115																	
(WY)	1976	1987	1974	1998	1990	1979	1980	1991	1997	1989	1975	1974																	
MIN	10.4	12.8	26.0	87.5	277	295	93.7	57.4	15.8	15.2	15.2	8.62																	
(WY)	1991	1982	1988	1981	1989	1986	1986	1999	1985	1996	1972	1995																	

SUMMARY STATISTICS

	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1971 - 1999	
ANNUAL TOTAL	189367		81316		521	
ANNUAL MEAN	519		223		911	
HIGHEST ANNUAL MEAN					201	1974
LOWEST ANNUAL MEAN					201	1988
HIGHEST DAILY MEAN	13000	Jan 9	7370	Mar 14	19900	Dec 28 1973
LOWEST DAILY MEAN	15	Aug 28	12	Sep 25	6.4	Aug 1 1981
ANNUAL SEVEN-DAY MINIMUM	16	Aug 24	13	Sep 22	6.6	Jul 30 1981
INSTANTANEOUS PEAK FLOW			8470	Mar 14	21900	Dec 28 1973
INSTANTANEOUS PEAK STAGE			18.04	Mar 14	27.63	Dec 28 1973
INSTANTANEOUS LOW FLOW			12	Sep 22, 23, 24-26, 28	6.2	Aug 1 1981
ANNUAL RUNOFF (CFSM)	1.51		.65		1.52	
ANNUAL RUNOFF (INCHES)	20.48		8.79		20.60	
10 PERCENT EXCEEDS	1480		280		1440	
50 PERCENT EXCEEDS	42		46		155	
90 PERCENT EXCEEDS	24		17		19	

e Estimated

02475000 LEAF RIVER NEAR McLAIN, MS

LOCATION.--Lat 31°06'10", long 88°48'21", in NE1/4 SE1/4 sec.29, T.2 N., R.8 W., St. Stephens Meridian, Greene County, Hydrologic Unit 03170005, on downstream side of right main pier of bridge on U.S. Highway 98, 1.2 mi east of McLain, 1.8 mi downstream from Atkinson Creek, 5.5 mi upstream from Big Oktibee Creek, and 14.6 mi upstream from confluence with Chickasawhay River.

DRAINAGE AREA.--3,495 mi².

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 42.15 ft above sea level. Prior to Sept. 8, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: May 9-14, 16-20, and Sept. 14-22. Records good except for estimated daily discharges, which are poor. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1900 reached a stage of about 32 ft, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8490	933	1050	2060	45000	3420	4550	2060	2190	1520	950	594
2	4820	939	1040	2130	39300	4800	4760	2170	1970	1450	896	580
3	3430	995	1030	3210	31900	5680	4640	1860	1650	1400	863	573
4	2810	991	1030	2960	27200	5350	4350	1560	1450	1290	871	578
5	2420	972	1040	2970	25100	4210	3760	1500	1390	1200	792	581
6	2050	968	1040	2940	19800	3490	3260	1480	1250	1120	747	627
7	1940	960	1040	2630	12300	3250	2960	1460	1150	1110	723	679
8	2470	946	1050	2260	7340	3660	2720	1420	1090	1280	706	722
9	2160	945	1090	2060	5590	6300	2550	e1410	1070	1300	704	817
10	1870	988	1110	1920	5160	15900	2380	e1390	1050	1360	737	802
11	1700	1440	1110	1850	6230	19500	2220	e1360	1040	1420	788	699
12	1510	1450	1130	1860	5560	19000	2070	e1310	1110	2090	1020	709
13	1370	1530	1160	1850	4530	16000	1940	e1290	1120	2090	1180	642
14	1280	1430	1240	1740	3960	28600	1850	e1460	1140	1810	1030	e610
15	1220	1460	1300	1650	3620	38600	1840	1560	1240	1510	851	e585
16	1180	1820	1300	1570	3370	43200	2250	e1480	1960	1330	760	e576
17	1140	1960	1260	1520	3210	41000	2270	e1420	1980	1210	710	e568
18	1130	1790	1210	1480	3560	34100	2230	e1210	1810	1170	671	e564
19	1120	1580	1170	1440	4270	25100	2140	e1140	1460	1140	652	e560
20	1100	1440	1180	1410	4590	16700	1930	e1070	1280	1060	649	e557
21	1070	1330	1180	1390	4470	10200	1770	1040	1160	1020	793	e557
22	1030	1250	1220	1410	4300	5930	1640	1010	1070	1000	674	e557
23	1010	1210	1240	5550	3860	4680	1570	1010	1090	959	699	557
24	988	1190	1240	5330	3470	4080	1540	1170	1120	913	652	552
25	972	1150	1350	5870	3200	3700	1510	1320	1270	878	642	550
26	964	1130	1520	6910	3010	3550	1500	1070	1880	889	846	549
27	957	1110	1670	6490	2890	3640	1490	1010	1750	1120	1260	550
28	951	1100	1850	5080	2930	4740	1510	994	1650	1070	849	554
29	952	1080	2260	3800	---	5210	1620	1010	1730	1120	753	593
30	946	1060	2260	11500	---	4470	1820	1080	1650	1060	675	694
31	940	---	2210	34900	---	4270	---	1750	---	1030	627	---
TOTAL	55990	37147	40580	129740	289720	392330	72640	42074	42770	38919	24770	18336
MEAN	1806	1238	1309	4185	10350	12660	2421	1357	1426	1255	799	611
MAX	8490	1960	2260	34900	45000	43200	4760	2170	2190	2090	1260	817
MIN	940	933	1030	1390	2890	3250	1490	994	1040	878	627	549
MED	1180	1140	1180	2130	4500	5350	2100	1360	1280	1170	753	579
CFSM	.52	.35	.37	1.20	2.96	3.62	.69	.39	.41	.36	.23	.17
IN.	.60	.40	.43	1.38	3.08	4.18	.77	.45	.46	.41	.26	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

	MEAN	1746	2936	5887	8436	10350	10950	9769	6065	2793	2829	2095	2078
MAX	6282	13580	25930	23680	30530	24300	39220	25390	9260	19680	5920	7901	
(WY)	1976	1949	1962	1998	1961	1948	1980	1991	1959	1940	1949	1979	
MIN	515	604	879	1343	2008	2362	1461	912	869	949	731	590	
(WY)	1964	1964	1955	1956	1957	1955	1963	1963	1963	1952	1963	1954	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1940 - 1999
ANNUAL TOTAL	2146847	1185016	
ANNUAL MEAN	5882	3247	5469
HIGHEST ANNUAL MEAN			11060
LOWEST ANNUAL MEAN			2024
HIGHEST DAILY MEAN	55000	Jan 11	126000
LOWEST DAILY MEAN	933	Nov 1	482
ANNUAL SEVEN-DAY MINIMUM	945	Oct 27	488
INSTANTANEOUS PEAK FLOW			46200
INSTANTANEOUS PEAK STAGE			23.39
INSTANTANEOUS LOW FLOW			548
ANNUAL RUNOFF (CFSM)	1.68	.93	1.56
ANNUAL RUNOFF (INCHES)	22.85	12.61	21.26
10 PERCENT EXCEEDS	16900	5180	13700
50 PERCENT EXCEEDS	1700	1390	2600
90 PERCENT EXCEEDS	1020	705	933

e Estimated

02475500 CHUNCKY RIVER NEAR CHUNCKY. MS

LOCATION. --Lat 32°19'34", long 89°54'13", in NW1/4 NE1/4 NW1/4 sec.31, T.6 N., R.14 E., Choctaw Meridian, Lauderdale County Hydrologic Unit 03170001, on right bank at downstream side of bridge on U.S. Highway 80, 2,500 ft upstream from Illinois Central and Gulf Railroad bridge, 1.2 mi east of Chunky, 3.2 mi upstream from Tallahatta Creek, and 5.5 mi downstream from Concobona Creek.

DRAINAGE AREA. --369 mi².

PERIOD OF RECORD.--August 1938 to current year. Prior to October 1963, published as Chunky Creek near Chunky.

REVISED RECORDS.--WSP 1724: 1950 (M). WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 269.00 ft above sea level. Prior to Mar. 24, 1939, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 1	0630	* 9,530	*17.32	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	22	48	202	8850	1210	896	67	159	71	23	11
2	24	24	47	195	5740	563	622	62	92	55	20	10
3	21	27	47	525	2470	661	470	57	67	43	19	9.4
4	19	38	49	478	825	995	428	53	51	35	17	11
5	19	36	49	286	611	726	399	51	41	30	15	10
6	18	35	52	215	493	479	363	56	34	27	14	9.4
7	19	33	52	202	449	424	314	60	30	38	13	13
8	20	34	53	242	433	367	284	60	48	77	12	29
9	24	35	67	332	391	1030	259	57	45	66	12	33
10	25	57	91	345	351	1450	240	57	34	97	16	24
11	23	137	101	287	325	976	218	53	36	57	17	21
12	22	156	304	225	300	484	195	54	64	44	20	18
13	22	110	345	193	278	1010	173	55	51	43	30	15
14	21	82	274	174	253	2900	159	65	43	39	31	16
15	21	96	187	162	214	3430	289	58	119	32	25	14
16	22	124	142	155	194	2600	309	51	141	29	19	14
17	25	96	126	150	208	864	287	45	71	45	15	13
18	27	75	129	148	336	575	201	41	47	58	13	13
19	26	63	133	159	398	485	164	39	36	40	12	12
20	25	57	170	142	303	435	145	35	30	37	11	11
21	26	53	189	129	264	437	130	33	26	31	10	11
22	28	60	173	194	251	441	120	32	25	27	9.2	9.9
23	26	63	165	2200	230	395	107	31	23	24	8.4	9.3
24	23	66	375	2050	219	363	98	30	37	23	8.1	9.1
25	22	65	768	1110	212	549	90	30	41	25	8.3	8.0
26	22	62	479	706	201	1200	91	32	117	26	12	7.8
27	22	56	270	375	215	846	96	34	134	50	17	7.6
28	22	53	241	296	1060	523	99	38	143	66	21	7.5
29	22	51	570	297	---	430	90	36	150	40	21	10
30	22	48	439	2560	---	391	75	40	101	31	17	16
31	22	---	268	5850	---	634	---	140	---	25	13	---
TOTAL	706	1914	6403	20584	26074	27873	7411	1552	2036	1331	499.0	403.0
MEAN	22.8	63.8	207	664	931	899	247	50.1	67.9	42.9	16.1	13.4
MAX	28	156	768	5850	8850	3430	896	140	159	97	31	33
MIN	18	22	47	129	194	363	75	30	23	23	8.1	7.5
CFSM	.06	.17	.56	1.80	2.52	2.44	.67	.14	.18	.12	.04	.04
IN.	.07	.19	.65	2.08	2.63	2.81	.75	.16	.21	.13	.05	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1999, BY WATER YEAR (WY)

MEAN	98.0	276	542	875	1094	1131	968	459	194	218	119	89.0
MAX	589	1854	2741	2608	3449	2890	2850	2072	617	1671	725	751
(WY)	1978	1949	1962	1998	1990	1980	1979	1991	1983	1940	1975	1979
MIN	4.01	16.8	74.0	143	241	185	113	41.5	18.3	16.1	10.5	3.08
(WY)	1964	1964	1939	1956	1954	1955	1967	1963	1988	1952	1954	1954

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1938 - 1999
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ANNUAL TOTAL	203657			96786.0					
ANNUAL MEAN	558			265				502	
HIGHEST ANNUAL MEAN								1028	1983
LOWEST ANNUAL MEAN								171	1963
HIGHEST DAILY MEAN	10700	Jan	8	8850	Feb	1	26400	Mar	4 1979
LOWEST DAILY MEAN	18	Oct	6	7.5	Sep	28	1.6	Sep	29 1954
ANNUAL SEVEN-DAY MINIMUM	20	Sep	5	8.5	Sep	22	1.8	Sep	25 1954
INSTANTANEOUS PEAK FLOW				9530	Feb	1	40900	Mar	4 1979
INSTANTANEOUS PEAK STAGE				17.31	Feb	1	26.64	Mar	4 1979
INSTANTANEOUS LOW FLOW				7.1	Sep	28, 29	1.6	Sep	28 1954
ANNUAL RUNOFF (CFSM)	1.51			.72				1.36	
ANNUAL RUNOFF (INCHES)	20.53			9.76				18.49	
10 PERCENT EXCEEDS	1380			505			1260		
50 PERCENT EXCEEDS	110			57			160		
90 PERCENT EXCEEDS	24			15			25		

02476500 SOWASHEE CREEK AT MERIDIAN, MS

LOCATION.--Lat 32°22'02", long 88°40'37", in NE1/4 sec. 7, T.6 N., R.16 E., Choctaw Meridian, Lauderdale County, Hydrologic Unit 03170001, at Bonita Road bridge, 0.6 mi downstream from Southern Railway System bridge, and 9.4 mi upstream from mouth.

DRAINAGE AREA.--52.1 mi², 49.0 prior to Nov 19, 1992.

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 300.00 ft above sea level. From Oct. 20, 1950 to Nov 13, 1959, at Highway 80 and 11 0.4 mi upstream at datum 8.95 ft higher. From Nov. 13, 1959 to Dec. 13, 1990, at Highway 39 and 19 0.1 mi upstream at datum 5.95 ft higher. From Dec. 13, 1990 to Nov. 19, 1992, at Highway 80 and 11 0.4 mi upstream at datum 5.95 ft higher.

REMARKS.--Estimated daily discharges: Oct. 23-24, Nov. 6-9, Apr. 1-14, Apr. 16 - May 17, May 24-26, Jun. 4-8, Jun. 19-21, Aug. 20-24, Aug. 30 - Sept. 4, Sept. 6-8, and Sept. 18-28. Records fair except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 35.4 ft in February 1936, at site 0.6 mi upstream at present datum, from information by Southern Railway Company. Flood of Mar. 31, 1949, reached a stage of 32.6 ft at site 0.6 mi upstream at present datum, from information by Southern Railway Company. Flood of Apr. 8, 1938, reached a stage of 32 ft at site 0.4 mi upstream at present datum, from information by National Weather Service. The flood of Feb. 21, 1961, reached a stage 6.7 ft lower than that of the flood in February 1936, at site 0.6 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	4.6	10	17	298	123	e92	e6.8	8.9	6.5	4.5	e1.1
2	5.4	3.7	8.9	92	199	119	e73	e6.8	7.2	5.6	4.4	e1.1
3	4.6	5.1	7.6	62	138	194	e65	e6.8	5.0	5.0	3.6	e1.1
4	4.0	4.5	8.7	28	105	88	e57	e6.1	e3.7	4.0	2.8	e2.7
5	3.2	4.9	10	22	71	73	e51	e7.6	e3.6	3.5	2.7	2.1
6	2.9	e4.7	8.1	23	70	83	e46	e14	e3.1	3.3	2.6	e1.0
7	4.8	e4.5	5.8	37	76	52	e42	e7.6	e3.0	32	2.3	e1.1
8	5.9	e7.8	7.4	72	62	51	e37	e5.5	e3.0	63	2.2	e8.9
9	4.8	e4.0	6.7	50	50	264	e34	e5.5	9.2	12	20	5.6
10	4.7	56	6.2	26	48	127	e31	e5.5	3.2	8.6	7.7	2.6
11	4.5	34	20	24	45	86	e28	e5.0	11	13	5.6	2.0
12	3.8	13	15	25	34	66	e26	e4.0	4.5	8.5	3.9	1.4
13	3.7	9.1	12	30	29	370	e23	e6.8	7.4	6.4	3.1	1.9
14	3.2	26	9.1	25	27	668	e24	e5.5	7.1	5.2	2.6	3.0
15	2.9	27	7.9	21	27	310	93	e5.0	5.2	4.8	2.3	1.7
16	2.9	26	7.5	18	33	252	e25	e4.0	6.8	73	2.2	1.1
17	2.7	15	6.6	23	54	199	e20	e4.0	4.9	72	2.0	1.2
18	2.6	12	6.3	38	68	138	e17	5.1	2.9	16	2.0	e.92
19	2.8	9.9	8.5	23	44	110	e17	4.7	e2.7	7.9	1.7	e.86
20	2.8	8.2	7.5	24	36	85	e18	4.4	e2.6	10	e1.4	e.84
21	2.9	11	8.4	27	35	67	e16	4.0	e2.6	8.8	e1.3	e.99
22	2.8	10	7.1	144	31	51	e14	5.5	12	6.7	e1.2	e.80
23	e2.4	10	16	465	31	46	e13	3.8	9.0	5.4	e1.2	e.76
24	e2.1	12	36	125	30	47	e11	e3.6	11	5.7	e1.2	e.74
25	2.2	13	16	69	32	153	e10	e3.3	59	5.1	3.6	e.73
26	2.4	7.7	11	53	35	92	e10	e4.4	27	42	4.2	e.72
27	3.1	8.5	9.8	46	97	66	e12	4.2	20	32	3.0	e.70
28	4.4	8.7	104	43	308	64	e11	5.4	16	9.3	2.2	e.74
29	4.7	7.6	70	101	---	62	e9.0	13	10	6.6	1.4	67
30	3.2	8.0	29	785	---	64	e8.0	10	8.3	4.8	e1.2	18
31	4.7	---	21	686	---	161	---	6.6	---	6.8	e1.1	---
TOTAL	111.9	376.5	508.1	3224	2113	4331	933.0	184.5	279.9	493.5	101.2	133.40
MEAN	3.61	12.6	16.4	104	75.5	140	31.1	5.95	9.33	15.9	3.26	4.45
MAX	5.9	56	104	785	308	668	93	14	59	73	20	67
MIN	2.1	3.7	5.8	17	27	46	8.0	3.3	2.6	3.3	1.1	.70
CFSM	.07	.24	.31	2.00	1.45	2.68	.60	.11	.18	.31	.06	.09
IN.	.08	.27	.36	2.30	1.51	3.09	.67	.13	.20	.35	.07	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1999, BY WATER YEAR (WY)

	MEAN	19.3	28.7	78.4	112	141	166	125	57.1	31.5	32.0	19.1	15.7
MAX	147	147	448	393	464	438	505	234	197	252	92.7	157	
(WY)	1990	1980	1962	1993	1961	1976	1964	1980	1989	1958	1982	1979	
MIN	.55	1.03	5.63	7.07	20.2	26.8	6.09	5.95	3.27	2.33	.74	.48	
(WY)	1955	1957	1955	1956	1957	1955	1986	1999	1988	1986	1954	1954	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1951 - 1999
ANNUAL TOTAL	23882.3	12790.00	
ANNUAL MEAN	65.4	35.0	68.5
HIGHEST ANNUAL MEAN			130
LOWEST ANNUAL MEAN			19.4
HIGHEST DAILY MEAN	2690 Jan 7	785 Jan 30	5770 Apr 6 1964
LOWEST DAILY MEAN	1.1 Sep 8	.70 Sep 27	.20 Jul 12 1957
ANNUAL SEVEN-DAY MINIMUM	1.5 Sep 5	.74 Sep 22	.27 Sep 4 1957
INSTANTANEOUS PEAK FLOW		942 Mar 14	9530 Apr 6 1964
INSTANTANEOUS PEAK STAGE		7.41 Mar 14	32.04 Mar 28 1951
INSTANTANEOUS LOW FLOW		.53a Aug 29	.20 Oct 4 1954
ANNUAL RUNOFF (CFSM)	1.26	.67	1.31
ANNUAL RUNOFF (INCHES)	17.05	9.13	17.86
10 PERCENT EXCEEDS	165	74	138
50 PERCENT EXCEEDS	12	8.6	19
90 PERCENT EXCEEDS	2.9	2.2	2.3

e Estimated

a Minimum recorded, may have been lower during periods of estimated record.

PASCAGOULA RIVER BASIN

02476600 OKATIBBEE CREEK AT ARUNDEL, MS

LOCATION.--Lat 32°15'54", long 88°45'13", in SE1/4 SE1/4 SW1/4 sec.3, T.5 N., R.15 E., Choctaw Meridian, Lauderdale County, Hydrologic Unit 03170001, on right bank, about 500 ft downstream from Hognose Creek, about 200 ft upstream from bridge on county road, 0.6 mi southeast of Arundel, and at mi 16.3.

DRAINAGE AREA.--342 mi².

PERIOD OF RECORD.--October 1968 to current year. Daily mean gage heights published since October 1971.

GAGE.--Water-stage recorder. Datum of gage is 259.04 ft above sea level (U. S. Army Corps of Engineers bench mark) Prior to Apr. 17, 1975, supplementary water-stage recorder at bridge 400 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Oct. 1-5, Nov. 3-5, Jan. 5-20, Mar. 27 - Apr. 13, May 12-14, 17-18, Jun. 29 - Jul. 1 and Aug. 23-25. Records fair except for estimated discharges, which are poor. Flow from 154 mi² above the station, 21.3 mi upstream, regulated by Okatibbee Lake since November 1968. Telemeter, satellite telemeter, and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1961 reached a stage of 22.2 ft at county road bridge 400 ft downstream (from information by U. S. Army Corps of Engineers).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e184	73	51	336	3300	732	e629	108	171	e74	65	45
2	e177	68	50	553	1670	503	e403	102	99	72	56	45
3	e176	e60	50	612	1150	821	e304	100	81	69	54	46
4	e174	e54	51	428	1270	836	e297	99	74	65	53	45
5	e177	e48	56	e280	1350	961	e243	101	68	63	53	46
6	176	44	52	e254	1370	973	e217	127	65	62	53	51
7	185	43	52	e304	1090	799	e190	110	64	76	53	58
8	186	48	63	e337	971	756	e168	94	64	265	52	62
9	176	50	58	e259	1200	1260	e154	79	63	100	62	141
10	173	241	54	e220	1250	856	e147	75	68	78	106	73
11	171	140	168	e200	1240	659	e134	75	142	74	58	54
12	169	66	114	e180	744	595	e126	e80	99	67	56	50
13	167	56	121	e160	727	1370	e124	e84	116	65	54	48
14	166	106	85	e150	983	3650	136	e82	88	62	52	49
15	126	95	72	e134	1000	2210	266	78	104	61	50	48
16	104	104	64	e130	1000	1030	223	73	145	152	50	45
17	88	69	87	e121	941	1050	154	e70	88	352	50	45
18	75	59	125	e122	851	1230	138	e68	73	141	50	45
19	75	55	149	e140	768	1200	129	67	67	94	50	44
20	74	58	142	e130	724	981	127	66	64	76	49	45
21	72	55	136	134	714	722	122	64	62	90	49	45
22	70	53	140	257	673	665	118	65	99	73	48	44
23	70	53	238	1810	672	618	115	66	177	88	e47	46
24	146	53	487	1080	670	461	114	63	75	68	e47	46
25	203	53	369	604	663	647	114	64	239	70	e48	45
26	204	52	224	849	479	716	113	76	283	67	64	43
27	124	49	295	1000	394	e502	125	71	174	99	51	44
28	78	51	540	1010	1250	e430	126	65	122	67	49	45
29	76	50	568	1080	---	e377	126	89	e100	62	48	216
30	75	50	419	3240	---	e495	116	108	e82	60	48	73
31	73	---	359	4140	---	e739	---	155	---	58	46	---
TOTAL	4190	2056	5439	20254	29114	28844	5498	2624	3216	2870	1672	1732
MEAN	135	68.5	175	653	1040	930	183	84.6	107	92.6	53.9	57.7
MAX	204	241	568	4140	3300	3650	629	155	283	352	106	216
MIN	70	43	50	121	394	377	113	63	62	58	46	43
CFSM	.40	.20	.51	1.91	3.04	2.72	.54	.25	.31	.27	.16	.17
IN.	.46	.22	.59	2.20	3.17	3.14	.60	.29	.35	.31	.18	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1999, BY WATER YEAR (WY)

MEAN	131	302	544	831	1044	1105	946	542	274	231	166	160
MAX	429	942	1569	2314	3160	2295	2359	1977	1275	1003	408	565
(WY)	1971	1993	1983	1998	1990	1979	1980	1991	1983	1989	1975	1979
MIN	31.2	33.4	82.0	118	281	233	124	84.6	42.8	56.0	53.9	57.7
(WY)	1970	1979	1988	1988	1986	1988	1986	1999	1970	1995	1999	1999

SUMMARY STATISTICS

	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1969 - 1999	
ANNUAL TOTAL	209000		107509		520	
ANNUAL MEAN	573		295		1022	
HIGHEST ANNUAL MEAN					181	
LOWEST ANNUAL MEAN					18700	
HIGHEST DAILY MEAN	7600	Jan 8	4140	Jan 31	19	Feb 16 1990
LOWEST DAILY MEAN	43	Nov 7	43	Nov 7	22	Nov 9 1981
ANNUAL SEVEN-DAY MINIMUM	50	Nov 3	45	Sep 16	22	Nov 13 1981
INSTANTANEOUS PEAK FLOW			4520	Jan 31	22800	Feb 16 1990
INSTANTANEOUS PEAK STAGE			17.61	Jan 31	22.65	Feb 16 1990
ANNUAL RUNOFF (CFSM)	1.67		.86		1.52	
ANNUAL RUNOFF (INCHES)	22.73		11.69		20.67	
10 PERCENT EXCEEDS	1500		850		1370	
50 PERCENT EXCEEDS	157		104		208	
90 PERCENT EXCEEDS	64		50		61	

e Estimated

PASCAGOULA RIVER BASIN

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02476600 OKATIBBEE CREEK AT ARUNDEL, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	3.75	3.37	5.69	16.20	7.88	---	4.14	4.62	---	3.51	3.19
2	---	3.69	3.36	6.66	11.70	6.82	---	4.08	3.98	3.62	3.38	3.18
3	---	---	3.35	6.92	9.65	8.25	---	4.05	3.77	3.58	3.35	3.19
4	---	---	3.36	6.10	10.19	8.30	---	4.04	3.67	3.53	3.33	3.19
5	---	---	3.44	---	10.54	8.86	---	4.05	3.59	3.49	3.33	3.21
6	4.63	3.30	3.38	---	10.61	8.90	---	4.31	3.54	3.47	3.32	3.28
7	4.71	3.29	3.38	---	9.41	8.09	---	4.15	3.52	3.67	3.32	3.41
8	4.72	3.38	3.55	---	8.92	7.89	---	3.97	3.51	5.21	3.31	3.41
9	4.65	3.41	3.48	---	9.94	10.13	---	3.80	3.50	3.96	3.43	4.35
10	4.63	4.65	3.41	---	10.13	8.31	---	3.75	3.57	3.71	3.95	3.63
11	4.62	4.43	4.55	---	10.12	7.40	---	3.74	4.15	3.66	3.42	3.35
12	4.61	3.66	4.16	---	7.96	7.10	---	---	3.94	3.55	3.38	3.27
13	4.60	3.51	4.23	---	7.90	9.87	---	---	4.10	3.52	3.35	3.24
14	4.60	4.08	3.84	---	9.08	16.70	4.49	---	3.82	3.47	3.31	3.26
15	4.25	4.02	3.67	---	9.19	13.63	5.39	3.77	3.99	3.46	3.28	3.23
16	4.04	4.11	3.56	---	9.18	9.03	5.13	3.71	4.38	4.03	3.28	3.19
17	3.87	3.70	3.83	---	8.93	9.16	4.63	---	3.83	5.65	3.28	3.18
18	3.72	3.53	4.26	---	8.55	9.98	4.48	---	3.64	4.34	3.27	3.18
19	3.72	3.47	4.46	---	8.19	9.83	4.40	3.61	3.55	3.88	3.27	3.17
20	3.71	3.51	4.41	---	7.98	8.83	4.38	3.59	3.50	3.68	3.26	3.18
21	3.69	3.48	4.36	4.76	7.92	7.63	4.32	3.56	3.48	3.85	3.25	3.18
22	3.67	3.42	4.38	5.23	7.72	7.38	4.28	3.57	3.72	3.65	3.24	3.16
23	3.66	3.42	5.07	12.40	7.70	7.17	4.24	3.58	4.45	3.81	---	3.20
24	4.42	3.43	6.30	9.23	7.68	6.46	4.23	3.54	3.67	3.56	---	3.21
25	4.92	3.43	5.79	7.06	7.63	7.30	4.22	3.54	4.90	3.60	---	3.19
26	4.94	3.40	5.00	8.17	6.78	7.60	4.21	3.68	5.32	3.54	3.49	3.15
27	4.26	3.35	5.42	8.90	6.40	---	4.31	3.65	4.61	3.94	3.28	3.16
28	3.81	3.37	6.56	8.96	10.16	---	4.33	3.57	4.18	3.56	3.25	3.18
29	3.78	3.37	6.68	9.24	---	---	4.32	3.81	---	3.48	3.24	4.65
30	3.77	3.36	6.03	15.88	---	---	4.22	4.05	---	3.44	3.23	3.63
31	3.75	---	5.79	17.30	---	---	---	4.49	---	3.42	3.20	---
MEAN	---	---	4.40	---	9.16	---	---	---	---	---	---	3.33
MAX	---	---	6.68	---	16.20	---	---	---	---	---	---	4.65
MIN	---	---	3.35	---	6.40	---	---	---	---	---	---	3.15

02477000 CHICKASAWHAY RIVER AT ENTERPRISE. MS

LOCATION.--Lat 32°10'33", long 88°49'11", in SE1/4 SE1/4 NW1/4 sec.24, T.4 N., R.14 E., Choctaw Meridian, Clarke County, Hydrologic Unit 03170002, on right bank at downstream side of bridge on State Highway 513 in Enterprise, 0.5 mi downstream from confluence of Chunky River and Okatibbee Creek, and at mile 158.2.

DRAINAGE AREA. -- 918 mi²

PERIOD OF RECORD.--August 1938 to current year. Daily mean gage heights published since January 1972. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1334: 1953. WRD Miss. 1966: 1965. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 207.62 ft above sea level. Prior to Jan. 6, 1939, National Weather Service nonrecording gage. Prior to Oct. 1, 1966, at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 1-4, 21-24, May 24, Jun. 12-25, Jul. 1-20, and Aug. 1-16. Records good except for estimated daily discharge, which is poor. Flow from 154 mi² above the station, 38.4 mi upstream, regulated by Okatibbee Lake since November 1968. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1900 reached a stage of 42.2 ft present datum, from floodmark (from reports of National Weather Service).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 2	0145	*14,400	*28.27	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	e170	158	692	13500	2790	2080	275	557	e190	e96	80
2	243	e165	158	813	13300	1650	1590	258	372	e181	e94	76
3	238	e160	158	1410	7430	1610	1250	243	303	e182	e92	76
4	229	e170	160	1310	4170	2480	1110	236	271	e183	e90	77
5	226	135	170	993	2790	2030	1030	235	245	e190	e92	79
6	224	128	170	782	2290	1880	937	256	224	e201	e90	89
7	231	124	166	736	2070	1560	838	272	210	e191	e88	128
8	250	123	169	789	1640	1370	751	257	205	e240	e90	102
9	235	136	196	903	1840	3000	652	245	221	e220	e88	158
10	234	177	206	858	1880	3150	601	233	218	e200	e99	162
11	232	486	281	754	1850	2290	543	229	225	e191	e86	109
12	230	325	512	647	1580	1500	508	303	e250	e182	e88	92
13	228	227	645	566	1070	2560	455	272	e280	e180	e86	85
14	226	212	529	524	1420	7970	424	234	e230	e189	e85	91
15	216	313	379	498	1450	7540	499	224	e252	e200	e84	87
16	177	337	297	475	1430	5720	657	201	e300	e220	e85	80
17	165	250	266	453	1450	3150	661	183	e220	e249	86	76
18	147	206	315	451	1570	2230	540	172	e190	e199	81	76
19	143	159	357	494	1560	2010	441	166	e180	e183	78	75
20	144	159	405	468	1340	1800	394	157	e170	e173	78	74
21	141	e190	426	423	1240	1460	369	147	e160	147	76	74
22	140	e185	409	464	1170	1380	343	146	e250	117	74	73
23	140	e182	467	4290	1110	1260	325	140	e350	123	74	71
24	149	e180	873	4710	1090	1140	304	e157	e200	112	89	73
25	267	186	1560	2590	1050	1520	304	159	e250	109	98	74
26	277	181	1090	1940	904	2320	302	140	462	103	112	72
27	257	171	719	1670	754	1900	344	175	509	128	100	71
28	166	165	806	1560	2560	1490	368	155	384	150	98	73
29	148	163	1380	1540	---	1290	313	163	369	145	97	216
30	148	161	1190	6190	---	1200	297	254	281	121	89	210
31	145	---	835	11100	---	1720	---	301	---	91	84	---
TOTAL	6194	5926	15452	51093	75508	74970	19230	6588	8338	5290	2747	2879
MEAN	200	198	498	1648	2697	2418	641	213	278	171	88.6	96.0
MAX	277	486	1560	11100	13500	7970	2080	303	557	249	112	216
MIN	140	123	158	423	754	1140	297	140	160	91	74	71
CFSM	.22	.22	.54	1.80	2.94	2.63	.70	.23	.30	.19	.10	.10
IN.	.25	.24	.63	2.07	3.06	3.04	.78	.27	.34	.21	.11	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1999, BY WATER YEAR (WY)

MEAN	259	650	1340	2082	2727	2831	2468	1236	537	593	353	276
MAX	1310	4011	7012	6699	9250	6415	6793	5644	2200	4494	1518	1654
(WY)	1978	1949	1962	1998	1990	1980	1979	1991	1983	1940	1946	1979
MIN	23.5	49.4	174	286	715	540	310	125	101	50.9	42.7	24.8
(WY)	1964	1964	1964	1956	1968	1955	1967	1963	1988	1952	1954	1954

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1938 - 1999
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ANNUAL TOTAL	541959		274215				
ANNUAL MEAN	1485		751			1272	
HIGHEST ANNUAL MEAN						2633	1983
LOWEST ANNUAL MEAN						428	1963
HIGHEST DAILY MEAN	23200	Jan 9	13500	Feb 1	58500		Feb 23 1961
LOWEST DAILY MEAN	110	Sep 10	71	Sep 23	18		Sep 25 1954
ANNUAL SEVEN-DAY MINIMUM	117	Sep 4	72	Sep 22	18		Sep 24 1954
INSTANTANEOUS PEAK FLOW			14400	Feb 2	61700		Feb 23 1961
INSTANTANEOUS PEAK STAGE			28.27	Feb 2	42.94		Feb 23 1961
INSTANTANEOUS LOW FLOW			70	Sep 27	18		Sep 25 1954
ANNUAL RUNOFF (CFSM)	1.62		.82			1.39	
ANNUAL RUNOFF (INCHES)	21.96		11.11			18.82	
10 PERCENT EXCEEDS	3850		1690		3170		
50 PERCENT EXCEEDS	340		236		480		
90 PERCENT EXCEEDS	150		89		96		

e Estimated

PASCAGOULA RIVER BASIN

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02477000 CHICKASAWHAY RIVER AT ENTERPRISE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.17	---	4.75	7.10	27.60	12.72	10.84	5.47	6.57	---	---	4.06
2	5.44	---	4.74	7.46	27.49	9.76	9.31	5.37	5.84	---	---	4.03
3	5.42	---	4.75	9.11	21.75	9.64	8.37	5.28	5.52	---	---	4.02
4	5.37	---	4.76	8.84	15.97	11.95	8.00	5.24	5.36	---	---	4.03
5	5.35	4.61	4.84	7.99	12.74	10.75	7.80	5.23	5.21	---	---	4.05
6	5.34	4.56	4.84	7.38	11.44	10.35	7.54	5.34	5.08	---	---	4.16
7	5.37	4.51	4.81	7.25	10.84	9.51	7.27	5.43	5.00	---	---	4.51
8	5.48	4.50	4.83	7.41	9.73	9.02	7.02	5.35	4.97	---	---	4.29
9	5.39	4.61	5.00	7.74	10.23	13.22	6.72	5.28	5.06	---	---	4.71
10	5.38	4.87	5.07	7.61	10.34	13.62	6.56	5.20	5.03	---	---	4.77
11	5.37	6.38	5.47	7.30	10.27	11.45	6.37	5.18	5.08	---	---	4.35
12	5.35	5.72	6.48	6.96	9.55	9.36	6.26	5.58	---	---	---	4.19
13	5.33	5.20	6.95	6.69	8.21	11.86	6.07	5.42	---	---	---	4.12
14	5.32	5.11	6.55	6.54	9.15	22.90	5.96	5.20	---	---	---	4.18
15	5.25	5.66	5.96	6.44	9.22	22.37	6.25	5.14	---	---	---	4.14
16	5.00	5.77	5.58	6.36	9.16	19.17	6.82	5.00	---	---	---	4.07
17	4.91	5.33	5.42	6.27	9.22	13.59	6.85	4.88	---	---	4.13	4.03
18	4.78	5.07	5.67	6.26	9.53	11.26	6.45	4.80	---	---	4.08	4.03
19	4.74	4.76	5.86	6.43	9.52	10.69	6.09	4.75	---	---	4.04	4.01
20	4.74	4.76	6.08	6.33	8.92	10.08	5.91	4.69	---	---	4.04	4.00
21	4.72	---	6.16	6.15	8.66	9.03	5.81	4.61	---	4.66	4.02	4.00
22	4.71	---	6.09	6.29	8.48	8.77	5.70	4.60	---	4.42	4.00	3.99
23	4.70	---	6.31	16.03	8.32	8.39	5.63	4.55	---	4.47	4.00	3.97
24	4.76	---	7.61	17.13	8.25	8.02	5.54	---	---	4.38	4.15	3.99
25	5.50	4.94	9.50	12.20	8.16	9.08	5.55	4.63	---	4.35	4.25	4.00
26	5.56	4.91	8.24	10.50	7.73	11.52	5.55	4.54	6.20	4.30	4.38	3.98
27	5.44	4.84	7.19	9.80	7.29	10.25	5.74	4.79	6.40	4.51	4.27	3.97
28	4.87	4.80	7.45	9.52	12.11	8.93	5.89	4.65	5.91	4.69	4.25	3.99
29	4.74	4.78	9.04	9.46	---	8.40	5.64	4.70	5.85	4.65	4.24	5.06
30	4.73	4.77	8.52	19.60	---	8.19	5.58	5.26	5.43	4.45	4.16	5.06
31	4.71	---	7.54	25.75	---	9.70	---	5.51	---	4.18	4.11	---
MEAN	5.13	---	6.20	9.22	11.42	11.40	6.64	---	---	---	---	4.19
MAX	5.56	---	9.50	25.75	27.60	22.90	10.84	---	---	---	---	5.06
MIN	4.70	---	4.74	6.15	7.29	8.02	5.54	---	---	---	---	3.97

PASCAGOULA RIVER BASIN

02477990 BUCKATUNNA CREEK NEAR DENHAM, MS

LOCATION.--Lat 31°41'39", long 88°31'11", in NE1/4 NE1/4 sec.6, T.8 N., R.5 W., St. Stephens Meridian, Wayne County, Hydrologic Unit 03170002, on right bank on downstream side of bridge on county road, 3.5 mi north of Denham, and 8.0 mi east of Waynesboro.

DRAINAGE AREA.--492 mi².

PERIOD OF RECORD.--January 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 141.15 ft above sea level. Prior to water year 1975, at datum 3.94 ft lower.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 31	0630	*8,870	*30.10	Feb. 3	2215	6,910	26.53

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1400	67	105	292	6510	625	1000	668	86	153	48	22
2	979	66	101	294	5760	926	936	379	81	120	40	21
3	555	65	100	606	6600	876	798	268	99	96	38	21
4	330	66	98	686	6520	625	620	216	108	81	35	40
5	236	67	98	680	5470	538	510	185	91	72	31	101
6	188	73	97	481	4130	539	446	178	77	64	28	36
7	265	80	96	349	1960	457	411	169	69	57	26	47
8	758	81	98	298	1090	435	378	155	71	69	25	39
9	540	79	101	283	879	1410	347	166	65	61	25	30
10	435	98	101	280	764	1380	320	143	58	53	33	37
11	293	151	108	277	684	1360	296	125	58	52	30	54
12	202	146	119	253	621	1350	269	122	57	115	26	41
13	158	176	135	223	560	1650	248	144	69	106	24	36
14	135	215	175	200	506	3690	229	159	91	68	41	31
15	122	194	213	186	462	2980	413	163	95	57	36	27
16	113	198	190	177	428	2400	349	143	95	54	33	22
17	104	279	159	171	417	2260	331	121	79	51	29	20
18	98	310	137	167	493	2400	458	105	70	48	26	19
19	94	281	126	158	548	2390	314	95	64	46	23	18
20	91	216	120	153	721	1210	249	87	61	46	21	17
21	86	174	117	150	694	746	220	82	56	43	22	16
22	82	151	127	157	572	653	199	78	52	39	28	15
23	78	139	145	1480	489	594	186	75	68	37	22	14
24	76	137	157	1790	448	532	176	72	85	37	21	13
25	76	135	177	1670	408	493	188	68	155	39	23	13
26	75	128	349	1550	391	601	196	68	305	51	42	14
27	72	121	423	1310	370	913	305	69	682	81	32	18
28	69	117	333	741	423	939	688	66	397	66	31	20
29	69	112	304	522	---	706	530	72	199	61	37	31
30	68	107	326	5200	---	545	754	81	177	69	32	36
31	67	---	359	8490	---	812	---	94	---	60	26	---
TOTAL	7914	4229	5294	29274	48918	37035	12364	4616	3720	2052	934	869
MEAN	255	141	171	944	1747	1195	412	149	124	66.2	30.1	29.0
MAX	1400	310	423	8490	6600	3690	1000	668	682	153	48	101
MIN	67	65	96	150	370	435	176	66	52	37	21	13
CFSM	.52	.29	.35	1.92	3.55	2.43	.84	.30	.25	.13	.06	.06
IN.	.60	.32	.40	2.21	3.70	2.80	.93	.35	.28	.16	.07	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1999, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	171	424	788	1460	1495	1610	1402	704	386	274	160	202																	
MAX	945	1852	1901	3497	4046	3445	4431	3155	1465	1717	660	1315																	
(WY)	1976	1980	1987	1998	1990	1983	1980	1991	1991	1989	1975	1979																	
MIN	16.8	23.7	118	172	534	475	164	89.2	26.9	36.4	27.3	15.1																	
(WY)	1979	1979	1988	1981	1989	1986	1986	1988	1988	1995	1981	1972																	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1972 - 1999
ANNUAL TOTAL	266615	157219	
ANNUAL MEAN	730	431	755
HIGHEST ANNUAL MEAN			1388
LOWEST ANNUAL MEAN			287
HIGHEST DAILY MEAN	8070	Jan 11	11700
LOWEST DAILY MEAN	16	Sep 16	8.4
ANNUAL SEVEN-DAY MINIMUM	19	Sep 14	9.9
INSTANTANEOUS PEAK FLOW			12200
INSTANTANEOUS PEAK STAGE			34.90
INSTANTANEOUS LOW FLOW			7.8
ANNUAL RUNOFF (CFSM)	1.48	.88	1.53
ANNUAL RUNOFF (INCHES)	20.16	11.89	20.84
10 PERCENT EXCEEDS	2430	838	2070
50 PERCENT EXCEEDS	177	135	311
90 PERCENT EXCEEDS	61	31	43

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LOCATION.--Lat 31°08'54", long 88°33'52", in NE1/4 SW1/4 sec.12, T.2 N., R.6 W., St. Stephens Meridian, Greene County, Hydrologic Unit 03170003, on left bank on downstream side of abandoned bridge 400 ft below State Highway 63, 0.5 mi southeast of Leaksville, 1.8 mi upstream from Faulk Ditch, and 29.1 mi upstream from confluence with Leaf River.

REVISED RECORDS.--WSP 1504: 1938-39.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft³/s and maximum (*):

a May have been lower during periods of estimated record.

PASCAGOULA RIVER BASIN

02479000 PASCAGOULA RIVER AT MERRILL, MS

LOCATION.--Lat 30°58'40", long 88°43'28", in NW1/4 SW1/4 sec.18, T.1 S., R.7 W., St. Stephens Meridian, George County, Hydrologic Unit 03170006, near right bank on downstream side of bridge on County highway between Merrill and Avent, 0.5 mi downstream from confluence of Leaf and Chickasawhay Rivers, 0.5 mi west of Merrill, and at mile 80.8.

DRAINAGE AREA.--6,590 mi².

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for October and November 1930, published in WSP 1304. Daily mean gage heights published since January 1972. Gage-height records collected in same vicinity since 1904 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 26.25 ft above sea level. Prior to Dec. 6, 1934, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in April 1900 reached a stage of 32.5 ft, and the flood of July 9, 1916, reached a stage of 31.0 ft, from information by National Weather Service.

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Oct. 1	0100	45,700	21.35	Mar. 17	0900	64,200	23.37
Feb. 2	0900	*70,000	*23.86				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40900	1930	2190	4840	56000	6200	11500	4290	3510	3480	2180	1250
2	28500	1880	2160	5010	68500	7480	11500	4590	3590	3000	1890	1180
3	15000	1900	2130	7520	67500	10100	11500	4150	3010	2760	1730	1150
4	8310	1930	2120	7510	63700	11000	11000	3420	2570	2480	1630	1130
5	6280	1900	2120	6750	59700	9110	9520	2980	2380	2250	1500	1120
6	5260	1870	2130	6590	55600	7590	8040	2780	2130	2070	1390	1160
7	5180	1850	2150	6150	48200	7880	7160	2920	1880	1950	1320	1420
8	8450	1820	2170	5370	39000	8630	6600	2790	1710	2120	1260	1620
9	7430	1800	2210	4970	30500	9700	6150	2600	1600	2360	1230	1600
10	6050	1880	2240	4840	19700	21000	5730	2440	1530	2350	1260	1650
11	4820	2600	2310	4470	14000	27700	5320	2340	1480	2290	1410	1530
12	4070	2940	2400	4320	12500	29600	4930	2240	1640	4150	1660	1480
13	3570	2940	2510	4240	10400	28800	4580	2180	1770	5340	1870	1350
14	3220	2930	2630	4020	9050	37300	4310	2180	1920	4640	1820	1240
15	2980	2990	2760	3780	8060	52300	4090	2770	1940	3650	1570	1190
16	2810	3710	2920	3560	7200	61300	4410	2850	3330	2880	1400	1130
17	2680	4340	3000	3400	6910	63700	5100	2670	5480	2620	1300	1060
18	2590	3900	2870	3280	7400	60400	5120	2370	3910	2600	1220	995
19	2520	3530	2700	3170	8570	54000	5090	2110	2900	2370	1170	954
20	2450	3290	2590	3080	9060	45900	4670	1950	2430	2290	1130	934
21	2360	3010	2570	3020	8790	35600	4170	1820	2080	2140	1250	921
22	2260	2780	2570	3040	8580	21500	3770	1720	1830	2070	1260	908
23	2160	2680	2640	7730	7860	13100	3500	1670	1690	1940	1250	889
24	2090	2860	2690	13000	7040	10300	3310	1740	1790	1800	1390	875
25	2030	2730	2900	13400	6470	9060	3150	2000	1990	1680	1230	868
26	1990	2550	3280	14700	6050	8450	3090	1760	5350	1620	1320	868
27	1960	2420	3690	14800	5760	8280	3050	1590	4720	1880	2000	868
28	1940	2340	4440	12600	5780	9670	3160	1510	4180	2320	1870	868
29	1940	2280	5290	9440	---	11500	3280	1550	4500	2080	1760	943
30	1980	2230	5170	11900	---	10900	3770	1760	4240	2070	1500	1160
31	1970	---	4880	34100	---	10400	---	2250	---	2490	1350	---
TOTAL	185750	77810	88430	234600	657880	708450	170570	75990	83080	79740	46120	34311
MEAN	5992	2594	2853	7568	23500	22850	5686	2451	2769	2572	1488	1144
MAX	40900	4340	5290	34100	68500	63700	11500	4590	5480	5340	2180	1650
MIN	1940	1800	2120	3020	5760	6200	3050	1510	1480	1620	1130	868
CFSM	.91	.39	.43	1.15	3.57	3.47	.86	.37	.42	.39	.23	.17
IN.	1.05	.44	.50	1.32	3.71	4.00	.96	.43	.47	.45	.26	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1999, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
1931	3022	5086	10180	15520	18880	20460	18860	10910	5351	5298	4033	3625								
1932	12410	21640	45210	45510	58660	47600	70770	49960	18580	34250	11500	15110								
1933	1976	1949	1962	1998	1990	1961	1980	1991	1991	1940	1975	1979								
1934	763	914	1598	2328	4180	4671	3049	1679	1478	1562	1177	885								
1935	1964	1964	1955	1956	1957	1955	1963	1963	1988	1968	1954	1954								

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1931 - 1999

	1998	1999	1931-1999
ANNUAL TOTAL	4279780	2442731	10060
ANNUAL MEAN	11730	6692	19410
HIGHEST ANNUAL MEAN			3718
LOWEST ANNUAL MEAN			1963
HIGHEST DAILY MEAN	82000	Jan 13	176000
LOWEST DAILY MEAN	1460	Sep 11	704
ANNUAL SEVEN-DAY MINIMUM	1550	Sep 6	708
INSTANTANEOUS PEAK FLOW			178000
INSTANTANEOUS PEAK STAGE			30.66
INSTANTANEOUS LOW FLOW			696
ANNUAL RUNOFF (CFSM)	1.78	1.02	1.53
ANNUAL RUNOFF (INCHES)	24.16	13.79	20.73
10 PERCENT EXCEEDS	34500	11700	25000
50 PERCENT EXCEEDS	3550	2810	5130
90 PERCENT EXCEEDS	1940	1340	1610

PASCAGOULA RIVER BASIN

81

02479000 PASCAGOULA RIVER AT MERRILL, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.46	3.78	3.84	6.02	22.55	7.25	10.51	5.88	5.38	5.11	3.65	2.55
2	17.53	3.72	3.79	6.17	23.73	8.12	10.51	6.12	5.47	4.65	3.34	2.46
3	12.24	3.75	3.75	8.12	23.65	9.72	10.53	5.77	4.94	4.41	3.16	2.42
4	8.64	3.79	3.73	8.13	23.32	10.21	10.24	5.15	4.53	4.12	3.04	2.39
5	7.36	3.75	3.71	7.59	22.96	9.14	9.38	4.75	4.34	3.86	2.88	2.38
6	6.69	3.72	3.71	7.46	22.57	8.19	8.48	4.58	4.08	3.65	2.74	2.44
7	6.63	3.70	3.72	7.12	21.71	8.38	7.91	4.71	3.81	3.51	2.64	2.78
8	8.73	3.66	3.72	6.48	20.11	8.85	7.53	4.59	3.62	3.67	2.57	3.02
9	8.09	3.64	3.76	6.14	18.12	9.46	7.22	4.41	3.50	3.92	2.53	3.00
10	7.22	3.72	3.79	6.03	14.41	14.97	6.92	4.26	3.41	3.89	2.57	3.06
11	6.38	4.48	3.86	5.73	11.84	17.34	6.62	4.16	3.33	3.82	2.76	2.91
12	5.82	4.82	3.93	5.61	11.04	17.89	6.32	4.06	3.52	5.45	3.07	2.85
13	5.39	4.81	4.02	5.55	9.92	17.66	6.05	4.00	3.65	6.48	3.31	2.69
14	5.08	4.78	4.13	5.36	9.10	19.71	5.83	4.01	3.82	5.88	3.26	2.55
15	4.85	4.83	4.24	5.16	8.49	22.20	5.65	4.61	3.83	5.06	2.96	2.47
16	4.69	5.46	4.39	4.97	7.94	23.11	5.91	4.69	5.15	4.36	2.75	2.39
17	4.56	5.98	4.46	4.83	7.74	23.33	6.45	4.53	6.83	4.10	2.62	2.30
18	4.48	5.60	4.34	4.72	8.07	23.02	6.47	4.23	5.66	4.09	2.52	2.20
19	4.41	5.27	4.17	4.63	8.81	22.41	6.44	3.96	4.75	3.86	2.45	2.14
20	4.34	5.05	4.07	4.54	9.11	21.37	6.12	3.78	4.26	3.77	2.39	2.11
21	4.24	4.78	4.05	4.48	8.95	19.35	5.72	3.65	3.88	3.61	2.56	2.09
22	4.14	4.54	4.04	4.50	8.82	15.13	5.39	3.53	3.60	3.54	2.57	2.07
23	4.03	4.43	4.12	8.01	8.37	11.34	5.16	3.48	3.42	3.40	2.55	2.04
24	3.95	4.59	4.17	11.31	7.83	9.82	5.00	3.57	3.52	3.23	2.74	2.02
25	3.90	4.46	4.36	11.52	7.44	9.11	4.86	3.87	3.72	3.09	2.52	2.01
26	3.85	4.27	4.72	12.20	7.15	8.74	4.80	3.61	6.64	3.03	2.64	2.01
27	3.82	4.13	5.08	12.21	6.94	8.63	4.78	3.41	6.19	3.32	3.46	2.01
28	3.79	4.03	5.70	11.08	6.96	9.46	4.88	3.32	5.74	3.80	3.32	2.01
29	3.80	3.96	6.41	9.33	---	10.52	5.00	3.37	5.99	3.55	3.18	2.12
30	3.84	3.89	6.31	10.55	---	10.20	5.43	3.63	5.76	3.53	2.88	2.43
31	3.83	---	6.06	18.89	---	9.90	---	4.16	---	3.98	2.68	---
MEAN	6.35	4.38	4.33	7.56	13.13	13.69	6.74	4.25	4.54	4.06	2.85	2.40
MAX	20.46	5.98	6.41	18.89	23.73	23.33	10.53	6.12	6.83	6.48	3.65	3.06
MIN	3.79	3.64	3.71	4.48	6.94	7.25	4.78	3.32	3.33	3.03	2.39	2.01

02479130 BLACK CREEK NEAR BROOKLYN, MS

LOCATION.--Lat 31°03'07", long 89°12'02", in NW 1/4 NE 1/4 sec.16, T.1 N., R.12 W., St. Stephens Meridian, Forrest County, Hydrologic Unit 03170007, near right bank at downstream side of downstream bridge of dual bridges on U.S. Highway 49, 1.1 mi southwest of Brooklyn, and 4.5 mi upstream from Chaney Creek.

DRAINAGE AREA.--355 mi².

PERIOD OF RECORD.--Occasional discharge measurements, water years 1942-45, 1954-57, 1959, 1961, 1964-66. October 1970 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 128.14 ft above sea level (Mississippi State Highway Department bench mark).

REMARKS.--Estimated daily discharges: May 31. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 18, 1961, reached a stage of 25.70 ft, discharge, 21,500 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft³/s and maximum (*)

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 31	2330	*11,400	*21.29	Mar. 15	1530	5,430	16.23

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	864	116	162	329	8980	468	550	125	370	110	123	77
2	570	124	160	416	3920	405	443	114	270	100	114	78
3	333	141	161	700	1980	375	375	109	171	95	111	77
4	249	142	164	541	1390	344	333	108	129	92	106	82
5	210	133	171	413	1040	311	298	110	107	92	99	89
6	201	126	173	337	847	314	270	114	98	90	87	84
7	226	125	170	305	716	351	260	122	91	89	83	84
8	251	129	174	310	623	312	259	129	87	110	83	110
9	220	136	202	290	561	479	241	115	105	186	135	96
10	199	172	214	260	527	555	219	102	101	181	101	80
11	178	387	213	246	504	474	198	97	81	139	95	73
12	160	289	225	240	504	527	180	97	97	251	92	68
13	149	240	260	234	498	1970	167	99	94	274	89	64
14	145	213	271	231	435	4730	158	96	106	241	82	62
15	140	309	243	216	374	5090	178	91	217	208	76	59
16	139	523	236	200	359	3610	225	83	350	142	61	58
17	133	422	225	201	393	1770	272	78	251	122	56	55
18	130	330	222	197	697	1100	188	77	235	124	54	51
19	130	273	228	192	612	798	160	74	213	120	52	50
20	128	237	281	191	513	674	150	72	145	113	52	51
21	124	207	285	191	437	570	143	70	119	109	74	52
22	119	192	257	212	358	489	138	69	114	98	78	49
23	115	188	232	251	329	423	136	78	123	91	72	48
24	113	193	252	418	311	357	132	179	121	255	67	47
25	114	194	375	375	297	339	127	282	165	276	61	48
26	113	184	400	310	287	377	124	191	264	158	238	47
27	113	175	344	258	285	367	147	134	186	265	193	48
28	113	173	443	239	420	356	153	109	154	240	134	50
29	113	171	614	254	---	328	192	103	145	192	106	93
30	114	166	476	4140	---	325	147	167	126	164	87	156
31	114	---	382	9540	---	562	---	e300	---	129	79	---
TOTAL	6020	6410	8215	22237	28197	29150	6563	3694	4835	4856	2940	2086
MEAN	194	214	265	717	1007	940	219	119	161	157	94.8	69.5
MAX	864	523	614	9540	8980	5090	550	300	370	276	238	156
MIN	113	116	160	191	285	311	124	69	81	89	52	47
CFSM	.55	.60	.75	2.02	2.84	2.65	.62	.34	.45	.44	.27	.20
IN.	.63	.67	.86	2.33	2.95	3.05	.69	.39	.51	.51	.31	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1999, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	314	446	738	1096	1086	1074	1044	682	430	372	299	287																	
MAX	1142	944	2141	2417	2304	2025	3968	2355	1354	1056	866	896																	
(WY)	1986	1987	1972	1993	1990	1980	1983	1991	1990	1979	1987	1974																	
MIN	88.8	140	265	248	441	439	219	119	112	104	94.8	69.5																	
(WY)	1983	1982	1999	1981	1989	1982	1999	1999	1985	1996	1999	1999																	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1971 - 1999

ANNUAL TOTAL	220399		125203		
ANNUAL MEAN	604		343		
HIGHEST ANNUAL MEAN				654	
LOWEST ANNUAL MEAN				998	1980
HIGHEST DAILY MEAN	10600	Jan 8	9540	32200	Apr 8 1983
LOWEST DAILY MEAN	85	Aug 8	47	47	Sep 24 1999
ANNUAL SEVEN-DAY MINIMUM	91	Aug 6	48	48	Sep 22 1999
INSTANTANEOUS PEAK FLOW			11400	42500	Apr 7 1983
INSTANTANEOUS PEAK STAGE			21.29	29.96	Apr 7 1983
ANNUAL RUNOFF (CFSM)	1.70		.97	1.84	
ANNUAL RUNOFF (INCHES)	23.10		13.12	25.02	
10 PERCENT EXCEEDS	1450		500	1410	
50 PERCENT EXCEEDS	230		178	357	
90 PERCENT EXCEEDS	114		78	122	

e Estimated

PASCAGOULA RIVER BASIN

83

02479155 CYPRESS CREEK NEAR JANICE, MS
(Hydrologic bench-mark station)

LOCATION.--Lat 31°01'32". long 89°00'51". in NW1/4 NE1/4 sec.29, T.1 N., R.10 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170007, on right bank, 75 ft downstream from bridge on State Highway 29, 1.2 mi east of Janice, and 5.5 mi upstream from mouth.

DRAINAGE AREA.--52.6 mi².

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area. WDR MS-85-1: 1959 (M), 1979 (M). WDR MS-93-1: 1992.

GAGE.--Water-stage recorder. Elevation of gage is 103 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1, 1959, reached a stage of 32.06 ft, discharge, 16,700 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 31	0430	2,720	20.32	Mar. 14	0730	*4,560	*23.79

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	20	23	32	308	63	91	13	30	12	29	7.4
2	102	20	22	95	164	38	60	12	18	9.6	14	7.6
3	68	29	22	186	130	43	47	11	12	9.3	10	11
4	54	24	22	82	112	40	43	11	9.9	8.4	8.7	10
5	47	21	24	50	92	32	41	11	8.9	8.9	8.9	9.0
6	43	19	23	41	85	41	40	25	8.3	8.1	8.1	9.9
7	74	19	22	39	77	61	46	29	8.3	11	7.2	11
8	140	18	24	39	68	40	39	17	8.8	32	6.8	9.4
9	65	18	38	45	60	83	33	12	11	26	8.2	10
10	42	47	31	46	56	102	29	11	11	16	25	9.6
11	34	136	29	37	52	52	26	11	16	12	20	7.9
12	30	55	28	32	46	73	23	13	71	417	13	7.3
13	27	34	29	30	40	743	21	13	34	266	9.4	7.0
14	25	31	27	29	37	2890	20	11	21	75	8.0	6.7
15	24	120	24	28	36	366	20	10	20	28	7.2	6.5
16	25	163	23	27	35	184	19	9.5	41	18	7.2	6.2
17	23	89	22	26	37	141	18	9.2	33	15	8.6	6.0
18	22	52	21	26	57	123	17	8.8	16	23	7.7	6.0
19	22	39	22	25	51	110	16	8.7	11	16	6.9	6.0
20	21	34	26	24	39	96	16	8.4	9.1	13	7.0	6.4
21	21	31	27	24	35	87	16	8.2	8.2	12	15	6.5
22	19	28	25	72	33	78	15	8.0	8.1	11	11	6.3
23	18	31	23	1010	31	71	14	11	9.3	9.0	8.8	6.1
24	18	36	32	301	30	67	14	26	12	8.1	7.7	6.1
25	18	32	60	114	28	69	14	19	24	8.3	8.0	6.1
26	17	28	53	80	27	74	17	12	152	10	12	6.2
27	17	26	37	67	26	63	16	9.9	90	10	11	6.5
28	17	24	84	61	73	54	14	8.9	34	9.2	9.3	6.7
29	17	23	122	73	---	50	13	17	18	7.9	8.4	11
30	17	23	60	1000	---	52	13	47	14	12	7.7	20
31	17	---	38	1850	---	112	---	29	---	48	7.3	---
TOTAL	1271	1270	1063	5591	1865	6098	811	450.6	767.9	1169.8	327.1	242.4
MEAN	41.0	42.3	34.3	180	66.6	197	27.0	14.5	25.6	37.7	10.6	8.08
MAX	187	163	122	1850	308	2890	91	47	152	417	29	20
MIN	17	18	21	24	26	32	13	8.0	8.1	7.9	6.8	6.0
CFSM	.78	.80	.65	3.43	1.27	3.74	.51	.28	.49	.72	.20	.15
IN.	.90	.90	.75	3.95	1.32	4.31	.57	.32	.54	.83	.23	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1999, BY WATER YEAR (WY)

	MEAN	38.1	61.7	117	166	168	177	162	96.5	50.2	46.9	40.9	50.9
MAX	287	236	265	442	417	383	637	558	296	137	131	229	
(WY)	1986	1980	1972	1993	1990	1980	1983	1991	1989	1991	1975	1979	
MIN	5.86	8.58	25.8	24.5	42.8	42.3	27.0	14.5	8.78	7.59	7.20	7.23	
(WY)	1969	1982	1991	1981	1989	1982	1999	1999	1968	1968	1981	1972	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1967 - 1999

ANNUAL TOTAL	39425.0	20926.8	
ANNUAL MEAN	108	57.3	
HIGHEST ANNUAL MEAN			97.5
LOWEST ANNUAL MEAN			175
HIGHEST DAILY MEAN	3430	2890	8820
LOWEST DAILY MEAN	7.0	6.0	4.2
ANNUAL SEVEN-DAY MINIMUM	7.2	6.2	4.5
INSTANTANEOUS PEAK FLOW		4560	13000
INSTANTANEOUS PEAK STAGE		23.79	29.51
INSTANTANEOUS LOW FLOW		5.8	4.5
ANNUAL RUNOFF (CFSM)	2.05	1.09	1.85
ANNUAL RUNOFF (INCHES)	27.88	14.80	25.18
10 PERCENT EXCEEDS	196	86	197
50 PERCENT EXCEEDS	30	23	37
90 PERCENT EXCEEDS	9.3	8.1	10

PASCAGOULA RIVER BASIN

02479160 BLACK CREEK NEAR WIGGINS, MS

LOCATION.--Lat 30°51'12", long 88°54'39", in SE1/4 SW1/4 sec.20, T.2 S., R.9 W., St. Stephens Meridian, Stone County, Hydrologic Unit 03170007, on left bank on downstream side of bridge on State Highway 26, 1.7 mi downstream from Flat Branch, 8.6 mi upstream from Sweetwater Creek, and 13.4 mi east of Wiggins.

DRAINAGE AREA.--701 mi².

PERIOD OF RECORD.--Occasional discharge measurements, water years 1956-57, 1959-60. October 1971 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 48.94 ft above sea level. Prior to 1978 water year, at datum 0.05 ft lower.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood (believed to be that of July 1916) reached a stage of 30.5 ft, from Mississippi State Highway Department plans. The flood of June 3, 1959, reached a stage of 25.88 ft, and the flood of Feb. 19, 1961, 25.83 ft from floodmarks, discharge, about 26,000 ft³/s, based on peak data at sites upstream and downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Oct. 1	0130	10,400	21.55	Mar. 15	1800	*11,200	*21.82
Feb. 2	2200	10,000	21.55				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6710	289	393	716	8160	948	1360	286	770	232	415	175
2	2190	289	382	752	9620	857	1100	256	664	204	317	167
3	1460	354	376	1600	8700	761	905	239	464	177	323	176
4	1100	401	374	1490	3250	735	798	228	328	163	309	191
5	926	364	383	1060	2080	656	791	228	261	185	255	180
6	838	328	389	821	1650	598	729	243	222	186	226	191
7	1070	307	386	698	1420	654	667	314	201	167	198	192
8	1430	298	381	639	1280	671	634	282	191	295	188	200
9	1130	296	446	696	1180	1050	581	261	204	268	218	196
10	875	327	481	715	1090	1370	527	237	202	306	351	192
11	766	911	472	608	1020	1080	478	220	318	294	293	166
12	686	995	470	543	971	900	437	229	542	900	254	151
13	616	693	481	508	937	2690	399	252	394	1740	212	141
14	561	562	519	484	892	7360	374	246	303	1090	190	134
15	522	754	510	468	811	10500	362	220	382	660	171	127
16	494	1830	464	444	746	9530	385	204	767	504	156	121
17	468	1580	445	419	739	6690	454	192	833	395	151	117
18	442	1050	427	412	922	2890	470	185	549	380	140	115
19	423	794	421	401	1200	2090	384	189	381	380	130	114
20	409	660	437	385	1030	1680	345	184	320	357	125	115
21	391	576	522	375	881	1460	326	168	244	317	165	112
22	363	519	518	378	777	1260	311	160	202	290	171	111
23	340	580	473	2600	685	1140	302	165	205	258	155	109
24	323	561	463	2020	640	1030	294	165	214	236	146	106
25	313	517	621	1180	608	948	285	571	233	367	137	105
26	307	486	835	877	582	992	279	501	686	483	180	105
27	303	452	774	707	563	964	287	362	1040	422	754	108
28	298	426	735	593	707	878	301	277	562	647	482	110
29	295	412	1320	541	---	821	296	239	350	493	309	122
30	292	403	1220	1920	---	775	328	273	276	478	233	186
31	291	---	887	6430	---	1060	---	416	---	514	192	---
TOTAL	26632	18014	17005	31480	53141	65038	15189	8399	12308	13388	7546	4335
MEAN	859	600	549	1015	1898	2098	506	271	410	432	243	144
MAX	6710	1830	1320	6430	9620	10500	1360	572	1040	1740	754	200
MIN	291	289	374	375	563	598	279	160	191	163	125	105
CFSM	1.23	.86	.78	1.45	2.71	2.99	.72	.39	.59	.62	.35	.21
IN.	1.41	.96	.90	1.67	2.82	3.45	.81	.45	.65	.71	.40	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1999, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
MEAN	594	903	1455	2157	2224	2266	2217	1408	865	741	616	648																	
MAX	2574	2354	4218	4909	5288	3986	7713	5400	2365	1940	1960	2277																	
(WY)	1976	1986	1972	1993	1990	1980	1980	1991	1997	1979	1975	1979																	
MIN	154	242	549	450	705	828	506	271	229	280	243	144																	
(WY)	1982	1982	1999	1981	1989	1982	1999	1999	1985	1996	1999	1999																	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1972 - 1999

ANNUAL TOTAL	496367	272475	1337
ANNUAL MEAN	1360	747	2307
HIGHEST ANNUAL MEAN			747
LOWEST ANNUAL MEAN			1980
HIGHEST DAILY MEAN	12700	Jan 9	39800
LOWEST DAILY MEAN	174	Sep 10	101
ANNUAL SEVEN-DAY MINIMUM	186	Sep 5	108
INSTANTANEOUS PEAK FLOW			11200
INSTANTANEOUS PEAK STAGE			21.82
INSTANTANEOUS LOW FLOW			103
ANNUAL RUNOFF (CFSM)	1.94	1.06	1.91
ANNUAL RUNOFF (INCHES)	26.34	14.46	25.90
10 PERCENT EXCEEDS	3150	1190	2910
50 PERCENT EXCEEDS	548	422	731
90 PERCENT EXCEEDS	227	173	244

PASCAGOULA RIVER BASIN

85

02479300 RED CREEK AT VESTRY, MS

LOCATION.--Lat 30°44'08", long 88°46'41", in SW1/4 SW1/4 sec.34, T.3 S., R.8 W., St. Stephens Meridian, George County, Hydrologic Unit 03170007, located on downstream side of right main pile cluster of bridge on county highway, 0.5 mi north of Vestry, and 1.1 mi upstream from Little Red Creek.

DRAINAGE AREA.--441 mi².

PERIOD OF RECORD.--July 1958 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 20.10 ft above sea level.

REMARKS.--No estimated daily discharge. Records good. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 16	1230	*6,950	*15.08	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9900	267	445	510	1730	552	951	195	475	276	462	155
2	4850	264	433	569	1500	552	823	189	580	244	311	152
3	2240	268	413	1110	1190	489	639	185	422	227	242	154
4	1190	294	376	1050	811	480	545	181	314	213	217	181
5	1050	314	366	791	667	447	575	180	252	267	201	254
6	1400	296	362	619	583	406	623	184	217	341	184	213
7	1560	277	356	532	524	380	514	186	196	308	172	182
8	2900	267	355	496	488	363	468	187	184	366	170	166
9	1870	262	357	642	462	666	430	180	193	486	172	154
10	1070	266	394	897	439	1820	390	173	234	373	542	146
11	780	478	397	704	427	1730	358	171	226	342	487	139
12	651	623	405	569	421	997	332	185	888	357	327	134
13	576	554	453	497	406	1220	308	202	729	1100	241	130
14	526	442	447	457	389	3170	290	209	536	843	201	125
15	487	593	437	430	372	4660	285	198	426	467	177	121
16	458	2360	400	407	362	6620	273	181	478	340	163	118
17	434	2600	368	391	360	5070	262	169	584	336	156	114
18	412	1830	347	382	412	2500	256	162	476	335	153	113
19	399	1150	336	370	473	1270	251	165	356	313	149	112
20	390	835	330	358	485	952	246	165	280	255	142	113
21	377	703	327	350	453	837	239	155	242	252	135	112
22	355	635	333	347	406	771	233	149	219	229	143	111
23	336	786	333	951	379	666	228	147	241	204	154	109
24	321	917	330	1730	361	593	223	232	267	187	147	108
25	308	709	369	1010	346	554	218	659	284	198	140	108
26	300	613	452	701	333	570	214	418	867	413	134	109
27	293	554	478	577	326	590	221	282	1060	602	183	109
28	285	513	495	505	367	540	232	227	598	462	192	111
29	280	484	676	481	---	491	215	208	427	325	188	113
30	276	463	726	700	---	464	203	268	332	272	175	128
31	272	---	626	1150	---	743	---	305	---	399	167	---
TOTAL	36546	20617	12922	20283	15472	41163	11045	6697	12583	11332	6627	4094
MEAN	1179	687	417	654	553	1328	368	216	419	366	214	136
MAX	9900	2600	726	1730	1730	6620	951	659	1060	1100	542	254
MIN	272	262	327	347	326	363	203	147	184	187	134	108
CFSM	2.67	1.56	.95	1.48	1.25	3.01	.83	.49	.95	.83	.48	.31
IN.	3.08	1.74	1.09	1.71	1.31	3.47	.93	.56	1.06	.96	.56	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1999, BY WATER YEAR (WY)

	MEAN	412	564	950	1329	1493	1438	1257	902	572	551	560	574
MAX	1801	1798	3933	3597	3478	3049	4692	4464	2159	1855	2994	2208	
(WY)	1976	1962	1962	1998	1990	1961	1980	1991	1959	1989	1987	1998	
MIN	95.9	118	266	266	380	385	204	189	140	160	169	136	
(WY)	1964	1964	1982	1981	1989	1967	1963	1963	1985	1968	1981	1999	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1958 - 1999
ANNUAL TOTAL	422709	199381	
ANNUAL MEAN	1158	546	879
HIGHEST ANNUAL MEAN			1492
LOWEST ANNUAL MEAN			358
HIGHEST DAILY MEAN	21600	Sep 29	25100
LOWEST DAILY MEAN	138	Sep 7	89
ANNUAL SEVEN-DAY MINIMUM	144	Sep 4	90
INSTANTANEOUS PEAK FLOW		6950	28000
INSTANTANEOUS PEAK STAGE		15.08	21.48
INSTANTANEOUS LOW FLOW		107	88
ANNUAL RUNOFF (CFSM)	2.63	1.24	1.99
ANNUAL RUNOFF (INCHES)	35.66	16.82	27.07
10 PERCENT EXCEEDS	2790	951	1930
50 PERCENT EXCEEDS	451	362	474
90 PERCENT EXCEEDS	171	155	183

PASCAGOULA RIVER BASIN

02479310 PASCAGOULA RIVER AT GRAHAM FERRY, MS

LOCATION.--Lat 30°36'38", long 88°38'28", in NE1/4 SE1/4 sec.38, T.5 S., R.7 W., St. Stephens Meridian, Jackson County, Hydrologic Unit 03170006, County Code 059, at State Highway 614 bridge at Graham Ferry Mississippi, about 5 mi west southwest of Wade, Mississippi and about 34.4 mi upstream of the Gulf of Mexico.

DRAINAGE AREA.--8,204 mi².

PERIOD OF RECORD.--October 1993 to current year. Occasional discharge measurements since 1958.

GAGE.--Water-stage recorder and Acoustic Velocity meter. Datum of gage is sea level.

REMARKS.--Estimated daily discharges: Jan. 21-22, Feb. 27 - Mar. 1, Apr. 10-22, Jun. 22-24, Jul. 14-26, and Sept. 5-7. Records good above 8,000 ft³/s and fair below 8,000 ft³/s except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge 204,000 ft³/s, Feb. 28, 1961, gage height, 20.1 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62300	3110	3420	6750	20400	e7100	13500	4000	3460	5090	3380	1870
2	55600	3010	3380	6640	28400	8160	14100	4520	4720	4360	3130	1840
3	46200	2960	3310	7700	53100	9130	14100	4790	4910	3720	2660	1790
4	33400	3030	3240	9930	74800	10600	13800	4380	4310	3320	2410	1730
5	23200	3150	3160	10500	78300	11600	13100	3760	3750	3120	2280	e1600
6	17300	2980	3120	9920	70800	11000	12000	3540	3220	2940	2140	e1600
7	14500	2990	3130	9120	63200	9700	10600	3320	3020	2800	1940	e1600
8	14000	2970	3160	8040	57400	9380	9300	3400	2770	2810	1910	2190
9	14900	2930	3120	7790	50900	10400	8510	3360	2850	3830	1780	2140
10	14400	2840	3170	8300	42600	12400	e7900	3110	2720	4230	1840	2160
11	12200	3340	3280	7650	32700	17200	e7300	2950	2530	3560	2190	2130
12	9640	4450	3320	6640	24300	21600	e6800	2960	2770	3280	2310	2020
13	7190	4910	3460	6030	19100	26000	e6300	3000	3670	5440	2290	1980
14	6070	4870	3590	5680	15400	30900	e5800	2830	3560	e7500	2280	1860
15	5340	4730	3590	5410	12700	37700	e5400	2930	3380	e7800	2250	1730
16	4900	5530	3720	5030	10800	50600	e5100	3200	3470	e6300	2010	1650
17	4560	7100	3750	4820	9520	67600	e4900	3370	5160	e4900	1870	1550
18	4370	8300	3720	4530	8980	78400	e5300	3140	6790	e4000	1890	1460
19	4260	8090	3700	4350	9230	76800	e6000	2880	5560	e3700	1710	1440
20	4100	6860	3620	4200	10100	67700	e6000	2710	4160	e3600	1700	1440
21	3920	5790	3510	e4000	10600	58700	e5900	2540	3520	e3300	1660	1530
22	3730	4850	3510	e3900	10400	49800	e5400	2420	e3300	e3200	1730	1490
23	3510	4540	3370	4950	10200	38000	4220	2310	e2800	e3000	1730	1350
24	3440	4760	3500	10400	9530	26000	3920	2510	e2600	e2800	1750	1360
25	3390	5050	3520	14100	8770	18900	3720	2820	2720	e2700	1810	1470
26	3260	4540	3850	15800	8190	14800	3540	3320	4230	e2700	1750	1390
27	3250	4080	4370	16400	e7600	12200	3500	3000	8230	2880	1730	1390
28	3130	3860	4910	16400	e7200	10900	3520	2630	9070	2990	2400	1490
29	3180	3640	5910	15400	---	11100	3590	2380	6770	3160	2640	1510
30	3130	3490	7010	13400	---	12200	3620	2480	5690	2960	2320	1440
31	3130	---	7200	14400	---	12800	---	3090	---	2900	2070	---
TOTAL	395500	132750	118620	268180	765220	839370	216740	97650	125710	118890	65560	50200
MEAN	12760	4425	3826	8651	27330	27080	7225	3150	4190	3835	2115	1673
MAX	62300	8300	7200	16400	78300	78400	14100	4790	9070	7800	3380	2190
MIN	3130	2840	3120	3900	7200	7100	3500	2310	2530	2700	1660	1350
CFSM	1.56	.54	.47	1.05	3.33	3.30	.88	.38	.51	.47	.26	.20
IN.	1.79	.60	.54	1.22	3.47	3.81	.98	.44	.57	.54	.30	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	4620	6674	10840	19700	26750	28020	16790	11010	7821	6407	3652	3395
MAX	12760	15790	16850	56210	40350	41430	25440	25690	20330	13160	5102	8686
(WY)	1999	1994	1996	1998	1994	1998	1994	1997	1997	1994	1997	1998
MIN	2417	3589	3826	8651	19620	20100	7225	3150	4069	3022	2115	1673
(WY)	1994	1995	1999	1999	1995	1997	1999	1999	1998	1996	1999	1999

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1994 - 1999

	1998	1999	1994-1999
ANNUAL TOTAL	5713810	3194390	12060
ANNUAL MEAN	15650	8752	15580
HIGHEST ANNUAL MEAN			8752
LOWEST ANNUAL MEAN			102000
HIGHEST DAILY MEAN	102000	Jan 13	78400
LOWEST DAILY MEAN	1920	Sep 10	1350
ANNUAL SEVEN-DAY MINIMUM	2120	Aug 28	1420
INSTANTANEOUS PEAK FLOW			82600
INSTANTANEOUS PEAK STAGE			16.55
INSTANTANEOUS LOW FLOW			865
ANNUAL RUNOFF (CFSM)	1.91	1.07	1.47
ANNUAL RUNOFF (INCHES)	25.91	14.48	19.98
10 PERCENT EXCEEDS	45200	16000	30500
50 PERCENT EXCEEDS	5340	3850	6450
90 PERCENT EXCEEDS	2840	1880	2310

e Estimated

02479560 ESCATAWPA RIVER NEAR AGRICOLA, MS

LOCATION.--Lat 30°48'12", long 88°27'31", in SW¹/₄SW¹/₄ sec. 2, T. 3 S., R. 5 W., George County, Miss., Hydrologic Unit 03170008, near left bank on downstream side of bridge on County Road 612, 2.5 mi west of Alabama-Mississippi State line, 3.7 mi east of Agricola, Miss., 4.8 mi downstream of old gage at Escatawpa River near Wilmer, Ala, and 6.7 mi west of Wilmer.

DRAINAGE AREA.--562 mi².

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORD.--WDR AL-84-1: Drainage area. WDR AL-98-1: 1983.

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1929 reached an elevation of approximately 72 ft above sea level, as determined from historical data. Peak discharge of this flood is unknown but probably has not been exceeded since 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,200 ft³/s, Oct. 1; stage falling, peak occurred Sept. 30, 1998.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23900	472	446	552	4230	701	1840	231	671	1000	285	141
2	19200	466	430	771	5210	697	1440	222	707	615	270	138
3	12700	478	416	2480	7180	658	1090	215	473	405	283	142
4	7970	476	407	2290	8070	619	917	210	327	303	230	141
5	3710	463	402	1420	5080	550	793	207	290	284	204	137
6	3340	452	404	1110	2260	508	686	221	423	256	187	151
7	3710	436	412	1010	1540	612	597	290	296	224	173	158
8	5680	430	422	923	1210	779	524	298	234	783	169	181
9	5290	424	450	1090	994	1230	478	251	208	3150	176	512
10	3810	430	429	1450	886	2420	440	218	192	1550	168	645
11	2950	975	406	1050	901	2750	407	211	223	664	192	575
12	2320	1220	394	797	904	2660	377	237	308	662	240	349
13	1780	804	517	673	868	2980	349	243	326	1510	215	234
14	1370	613	655	598	805	4580	329	227	594	1560	183	189
15	1130	637	606	544	745	6080	327	207	648	1150	164	163
16	997	861	498	500	689	7310	343	195	860	837	151	147
17	908	869	430	476	631	7990	323	186	954	968	150	137
18	842	770	395	459	657	6880	303	179	1300	837	163	131
19	792	662	379	435	771	3560	288	174	1510	844	150	129
20	750	596	370	416	806	1870	280	172	1130	1390	144	131
21	715	553	365	404	793	1530	278	167	681	807	139	131
22	668	512	359	397	749	1220	272	163	382	489	136	127
23	626	612	349	1230	692	964	264	169	334	359	133	123
24	591	1030	354	2220	639	852	259	205	261	330	152	121
25	567	962	418	1750	577	774	249	200	270	294	195	120
26	550	779	475	1360	518	747	241	183	1360	300	156	119
27	530	655	465	1390	484	691	243	176	2310	285	150	122
28	514	565	530	1230	593	632	262	181	1470	249	159	132
29	503	501	829	1020	---	597	257	290	1310	238	151	203
30	490	464	797	1020	---	585	242	380	1410	262	140	242
31	480	---	667	2900	---	1310	---	587	---	382	139	---
TOTAL	109383	19167	14476	33965	49482	65336	14698	7095	21462	22987	5547	5971
MEAN	3528	639	467	1096	1767	2108	490	229	715	742	179	199
MAX	23900	1220	829	2900	8070	7990	1840	587	2310	3150	285	645
MIN	480	424	349	397	484	508	241	163	192	224	133	119
CFSM	6.28	1.14	.83	1.95	3.14	3.75	.87	.41	1.27	1.32	.32	.35
IN.	7.24	1.27	.96	2.25	3.28	4.32	.97	.47	1.42	1.52	.37	.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1999, BY WATER YEAR (WY)

	MEAN	576	870	1212	1877	2093	2081	1757	1335	772	659	571	741
MAX	3528	2587	2597	4452	4280	4383	5986	6818	2572	1668	2675	2386	
(WY)	1999	1980	1983	1998	1990	1979	1983	1991	1978	1994	1975	1974	
MIN	126	152	364	365	412	742	490	210	169	245	179	185	
(WY)	1982	1982	1982	1981	1989	1982	1999	1988	1988	1986	1999	1990	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1974 - 1999

ANNUAL TOTAL	580564					369569							
ANNUAL MEAN	1591					1013							
HIGHEST ANNUAL MEAN										1207			
LOWEST ANNUAL MEAN										1922		1980	
HIGHEST DAILY MEAN										740		1982	
LOWEST DAILY MEAN	26800	Sep 30				23900	Oct 1			26800	Sep 30	1998	
ANNUAL SEVEN-DAY MINIMUM	140	Sep 10				119	Sep 26			106	Jun 7	1985	
INSTANTANEOUS PEAK FLOW	152	Sep 5				123	Sep 21			110	Oct 2	1981	
INSTANTANEOUS PEAK STAGE						8350	Feb 4			27800	Sep 30	1998	
ANNUAL RUNOFF (CFSM)	2.83					16.43	Feb 4			22.81	Sep 30	1998	
ANNUAL RUNOFF (INCHES)	38.43					1.80				2.15			
10 PERCENT EXCEEDS	3680					24.46				29.19			
50 PERCENT EXCEEDS	615					1800				2750			
90 PERCENT EXCEEDS	204					490				640			
						163				196			

02481000 BILOXI RIVER AT WORTHAM, MS

LOCATION.--Lat 30°33'30", long 89°07'10", in NW1/4 NE1/4 sec.6, T.6 S., R.11 W., St. Stephens Meridian, Harrison County, Hydrologic Unit 03170009, on downstream side of right main pier of upstream bridge of dual bridges on U.S. Highway 49, 0.8 mi east of Wortham, 1.3 mi downstream from Illinois Central Railroad bridge, 1.1 mi upstream from Saucier Creek, 4.2 mi north of Lyman, and 18.8 mi upstream from mouth.

DRAINAGE AREA.--96.2 mi².

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WDR MS-89-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 19.18 ft Mississippi Department of Transportation datum. Prior to Oct. 1, 1977, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: Oct. 11-13, Mar. 13, May 2, 4-12, 16-18, Jun. 19-24, and Aug. 17 - Sept. 30. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1948 reached a stage of 25.3 ft present datum, from information by Mississippi Department of Transportation. Floods in 1916 and 1928 reached approximately the same stage and were at least 8.5 ft higher than that of Sept. 18, 1957, at a point about 1 mi upstream, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 14	0745	*3,120	*13.35	Jul. 30	2200	2,000	9.92

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	987	28	34	56	253	98	239	12	450	21	255	e6.3
2	411	27	32	136	167	91	146	e10	220	17	121	e6.0
3	266	33	31	508	127	67	99	8.5	94	15	74	e5.8
4	203	34	31	254	108	71	81	e12	50	13	49	e9.2
5	229	33	30	140	92	59	74	e20	32	19	34	e8.4
6	395	30	30	101	77	47	72	e14	25	19	28	e6.8
7	408	27	30	91	69	42	69	e11	23	16	24	e9.1
8	686	25	29	95	63	39	59	e10	26	153	21	e7.4
9	364	24	28	326	58	226	52	e9.4	33	276	311	e6.0
10	202	25	31	486	54	525	44	e9.2	34	92	818	e5.2
11	e129	154	32	224	51	275	39	e9.0	45	57	139	e4.7
12	e113	103	42	149	47	146	33	e15	27	41	72	e9.0
13	e105	73	59	118	43	e1120	28	67	25	343	43	e6.2
14	97	54	56	99	39	2660	25	32	28	187	33	e7.8
15	86	150	47	85	36	1620	24	21	26	83	26	e6.6
16	78	425	38	74	34	627	21	e14	38	80	22	e5.5
17	71	319	31	67	35	296	19	e11	24	154	e15	e5.2
18	67	174	28	63	62	222	18	e9.2	19	184	e13	e7.9
19	65	109	26	58	69	178	17	6.7	e17	92	e12	e5.0
20	61	82	25	51	60	146	16	5.5	e16	100	e11	e6.0
21	57	68	25	47	46	126	16	4.8	e14	78	e10	e8.0
22	52	56	25	47	38	120	15	4.7	e13	55	e10	e6.4
23	44	100	23	748	35	103	14	5.7	e11	32	e9.8	e7.4
24	40	90	24	550	32	86	14	80	e10	27	e20	e6.7
25	37	70	38	231	29	84	13	69	21	55	e10	e6.3
26	35	60	53	151	27	95	12	27	70	103	e8.4	e5.5
27	33	49	55	118	26	109	17	19	133	138	e5.8	e5.2
28	31	43	73	101	38	84	27	18	93	82	e7.0	e5.0
29	30	39	149	95	---	75	22	334	45	45	e9.5	e4.8
30	29	36	116	219	---	81	16	343	28	725	e8.0	e4.6
31	29	---	77	314	---	227	---	279	---	1260	e7.2	---
TOTAL	5440	2540	1348	5802	1815	9745	1341	1490.7	1690	4562	2226.7	194.0
MEAN	175	84.7	43.5	187	64.8	314	44.7	48.1	56.3	147	71.8	6.47
MAX	987	425	149	748	253	2660	239	343	450	1260	818	9.2
MIN	29	24	23	47	26	39	12	4.7	10	13	5.8	4.6
CFSM	1.83	.88	.45	1.95	.67	3.27	.47	.50	.59	1.53	.75	.07
IN.	2.11	.98	.52	2.25	.70	3.77	.52	.58	.65	1.77	.86	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1999, BY WATER YEAR (WY)

	MEAN	71.1	119	224	326	350	336	264	186	108	124	136	161
MAX	606	466	625	1091	986	920	997	1129	587	592	715	768	
(WY)	1986	1980	1962	1998	1983	1980	1980	1991	1959	1989	1987	1998	
MIN	1.95	4.37	24.1	15.9	60.2	34.1	24.0	7.92	5.00	12.9	7.05	5.35	
(WY)	1964	1982	1959	1981	1989	1955	1963	1956	1985	1957	1954	1954	

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1953 - 1999

	102998.4	38194.4	
ANNUAL TOTAL	102998.4	38194.4	
ANNUAL MEAN	282	105	200
HIGHEST ANNUAL MEAN			364
LOWEST ANNUAL MEAN			67.4
HIGHEST DAILY MEAN	7590	2660	9860
LOWEST DAILY MEAN	4.0	4.6	1.2
ANNUAL SEVEN-DAY MINIMUM	6.4	5.4	1.3
INSTANTANEOUS PEAK FLOW		3120	13500
INSTANTANEOUS PEAK STAGE		13.35	28.94
INSTANTANEOUS LOW FLOW		4.5a	1.1
ANNUAL RUNOFF (CFSM)	2.94	1.09	2.08
ANNUAL RUNOFF (INCHES)	39.87	14.78	28.24
10 PERCENT EXCEEDS	576	234	458
50 PERCENT EXCEEDS	70	42	68
90 PERCENT EXCEEDS	11	8.4	8.4

e Estimated

a May have been lower during periods of estimated discharge.

WOLF RIVER BASIN

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02481510 WOLF RIVER NEAR LONDON, MS

LOCATION.--Lat 30°29'01", long 89°16'19", in NE1/4 NE1/4 sec.34, T.6 S., R.13 W., St. Stephens Meridian, Harrison County, Hydrologic Unit 03170009, on left bank at downstream side of bridge on county highway, 0.3 mi downstream from Sandy Creek, 1.3 mi upstream from Pole Branch, and 11.1 mi northwest of London.

DRAINAGE AREA.--308 mi².

PERIOD OF RECORD.--August 1971 to current year. Occasional discharge measurements, water years 1964-66.

GAGE.--Water-stage recorder. Datum of gage is 14.34 ft above sea level. Prior to Oct. 18, 1978, at datum 7.00 ft higher. Oct. 18, 1978 to Oct. 15, 1990, at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Mar. 14-15, May 23-25 and Aug. 10-18. Records good except for estimated discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 27, 1964, reached a stage of 21.06 ft. The flood of 1920 reached a stage about 5 ft higher than that of April 1964, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 15	----	*7,420	*18.21	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1200	80	148	243	1070	414	989	62	474	102	873	52
2	632	90	144	422	885	316	621	59	435	86	337	52
3	427	123	133	787	522	254	430	58	236	80	240	60
4	331	162	126	642	364	251	344	56	127	82	166	52
5	329	138	123	402	296	223	306	60	90	299	127	56
6	333	114	127	304	253	191	281	62	75	142	101	56
7	638	100	130	269	231	192	252	61	85	102	88	54
8	677	94	135	263	214	193	231	58	162	106	82	69
9	430	89	148	652	201	558	208	55	119	109	233	102
10	298	110	176	555	191	1620	186	54	203	188	e490	80
11	237	248	170	371	217	989	167	64	154	136	e120	58
12	203	286	243	294	218	570	149	73	124	106	e72	47
13	181	228	285	255	186	1930	132	73	273	233	e67	42
14	164	181	299	228	169	e6000	120	66	428	430	e110	38
15	152	583	242	210	158	e6300	123	63	334	223	e66	37
16	142	1410	197	194	150	2120	119	56	212	241	e55	35
17	132	1000	169	184	150	1150	105	51	221	331	e50	34
18	127	553	150	177	191	781	101	49	197	221	e47	33
19	133	362	143	169	288	635	97	47	128	216	44	33
20	128	278	139	163	268	527	93	45	94	257	42	33
21	119	234	137	159	211	472	89	44	85	166	39	33
22	109	203	140	172	180	428	85	42	74	115	38	31
23	101	223	138	379	165	367	82	e110	67	102	39	30
24	97	206	141	511	154	323	80	e140	68	487	39	30
25	95	185	182	390	145	304	78	e68	102	692	36	30
26	95	167	238	285	141	387	74	58	402	678	40	31
27	93	155	240	224	134	397	83	50	604	531	38	31
28	89	144	285	195	172	314	77	46	322	255	42	32
29	84	136	473	200	---	269	70	148	200	161	44	34
30	83	139	431	318	---	304	66	349	137	638	48	37
31	82	---	310	1110	---	946	---	457	---	2300	48	---
TOTAL	7941	8021	6142	10727	7524	29725	5838	2684	6232	9815	3861	1342
MEAN	256	267	198	346	269	959	195	86.6	208	317	125	44.7
MAX	1200	1410	473	1110	1070	6300	989	457	604	2300	873	102
MIN	82	80	123	159	134	191	66	42	67	80	36	30
MED	142	174	150	269	196	414	120	59	158	216	55	37
CFSM	.83	.87	.64	1.12	.87	3.11	.63	.28	.67	1.03	.40	.15
IN.	.96	.97	.74	1.30	.91	3.59	.71	.32	.75	1.19	.47	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1999, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
MEAN	225	390	658	1067	1117	1092	972	690	336	417	394	428																		
MAX	1231	957	1511	3291	2489	2424	3008	2641	1082	1513	1778	1676																		
(WY)	1986	1990	1984	1998	1990	1980	1980	1991	1989	1979	1975	1973																		
MIN	52.1	51.3	144	122	269	334	159	86.6	58.9	90.5	71.4	44.7																		
(WY)	1982	1982	1982	1981	1999	1981	1976	1999	1985	1986	1986	1999																		

SUMMARY STATISTICS

	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1971 - 1999	
ANNUAL TOTAL	264882		99852			
ANNUAL MEAN	726		274		645	
HIGHEST ANNUAL MEAN					943	
LOWEST ANNUAL MEAN					274	
HIGHEST DAILY MEAN	14200		6300		18700	
LOWEST DAILY MEAN	42		30		30	
ANNUAL SEVEN-DAY MINIMUM	49		31		31	
INSTANTANEOUS PEAK FLOW			7420		24500	
INSTANTANEOUS PEAK STAGE			18.21a		28.85	
ANNUAL RUNOFF (CFSM)	2.36		.89		2.09	
ANNUAL RUNOFF (INCHES)	31.99		12.06		28.44	
10 PERCENT EXCEEDS	1650		529		1500	
50 PERCENT EXCEEDS	203		158		280	
90 PERCENT EXCEEDS	62		48		80	

e Estimated

a From floodmark.

02481880 PEARL RIVER AT BURNSIDE, MS

LOCATION.--Lat 32°50'29", long 89°05'51", in NE1/4 NE1/4 sec.6, T.11 N., R.12 E., Choctaw Meridian, Neshoba County, Hydrologic Unit 03180001, on right bank at downstream edge of roadway at bridge on State Highway 15, 2.4 mi upstream from Illinois Central and Gulf railroad, 4.8 mi north of Philadelphia and 0.9 mi south of Burnside.

DRAINAGE AREA.--520 mi².

PERIOD OF RECORD.--January 1981 to current year. Daily mean gage heights published since October 1984.

GAGE.--Water-stage recorder. Datum of gage is 376.30 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 70,600 ft³/s, Apr. 13, 1979, gage height, 23.31 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 25	1300	7,600	14.89	Feb. 1	1200	*18,300	*17.12

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	4.0	4.8	1170	17600	369	778	70	23	49	6.7	1.4
2	3.6	4.4	4.6	1110	12800	396	759	56	26	31	4.5	1.2
3	3.7	4.4	4.7	1400	6480	658	717	47	23	26	3.7	1.2
4	5.7	5.4	4.4	1520	3340	855	715	43	13	30	3.3	1.3
5	2.0	4.1	4.8	1620	2040	1320	784	43	8.9	38	2.9	6.3
6	2.0	4.1	5.2	1400	1500	1500	872	46	8.8	35	2.7	6.6
7	2.8	5.0	5.3	1190	1160	1340	852	48	9.5	32	2.5	6.0
8	3.3	6.9	10	1130	905	1210	705	63	7.7	37	2.5	6.1
9	3.7	9.9	11	1370	716	1270	559	60	6.8	59	3.0	3.9
10	3.5	27	6.1	1550	566	1230	453	52	6.8	51	4.2	2.8
11	3.2	37	85	1850	447	1340	386	40	7.3	42	4.3	9.4
12	3.3	4.6	312	1870	352	1210	339	39	15	33	3.8	17
13	3.2	2.5	322	1580	299	1070	286	46	17	23	3.7	13
14	3.0	5.3	306	1300	244	1710	229	57	15	20	3.4	12
15	2.8	5.9	296	1110	199	2780	253	55	13	21	3.0	7.7
16	2.7	4.2	293	948	165	3290	264	47	56	17	2.8	3.9
17	2.7	3.8	284	813	152	2630	235	40	71	14	2.5	2.6
18	2.6	5.6	261	683	176	1910	222	34	58	12	2.4	2.3
19	2.6	4.6	214	558	195	1460	230	29	42	20	2.5	2.4
20	2.7	5.1	153	467	218	1130	220	24	31	16	2.5	2.4
21	2.7	6.7	124	407	228	906	196	19	25	15	2.2	3.0
22	2.6	5.9	108	371	221	731	149	16	20	11	1.4	2.7
23	2.7	5.7	105	977	204	559	112	43	20	7.3	1.1	2.4
24	3.0	3.9	227	3100	186	504	97	53	18	6.2	1.2	2.2
25	2.9	4.1	373	7230	173	522	80	37	16	5.4	1.5	2.1
26	3.0	4.7	482	5850	164	612	73	27	14	4.7	2.0	2.3
27	3.2	4.8	540	3580	171	657	73	23	35	4.2	1.9	2.8
28	3.4	5.0	628	2190	295	756	74	19	45	7.5	1.7	3.3
29	3.3	5.3	767	1640	---	724	70	16	70	7.7	1.7	8.1
30	3.6	5.0	911	3330	---	677	67	20	74	5.8	1.6	14
31	3.9	---	1250	12700	---	742	---	24	---	11	1.5	---
TOTAL	97.1	204.9	8101.9	66014	51206	36108	10849	1236	795.8	691.8	84.7	152.4
MEAN	3.13	6.83	261	2129	1829	1165	362	39.9	26.5	22.3	2.73	5.08
MAX	5.7	37	1250	12700	17600	3290	872	70	74	59	6.7	17
MIN	2.0	2.5	4.4	371	152	369	67	16	6.8	4.2	1.1	1.2
CFSM	.01	.01	.50	4.10	3.52	2.24	.70	.08	.05	.04	.01	.01
IN.	.01	.01	.58	4.72	3.66	2.58	.78	.09	.06	.05	.01	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1999, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	73.5	394	914	1371	1677	1279	1139	683	266	165	79.6	22.6							
MAX	295	1071	3408	3099	3661	3149	3686	4021	1148	906	342	123							
(WY)	1995	1990	1983	1990	1983	1983	1983	1997	1989	1989	1982	1991							
MIN	.94	3.65	7.83	104	154	391	70.4	16.7	2.15	5.17	2.73	1.92							
(WY)	1988	1988	1988	1986	1986	1988	1986	1988	1988	1981	1999	1987							

SUMMARY STATISTICS

	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1981 - 1999
ANNUAL TOTAL	204772.4	175541.6	
ANNUAL MEAN	561	481	683
HIGHEST ANNUAL MEAN			1732
LOWEST ANNUAL MEAN			141
HIGHEST DAILY MEAN	6200	17600	34600
LOWEST DAILY MEAN	2.0	1.1	.37
ANNUAL SEVEN-DAY MINIMUM	2.7	1.4	.50
INSTANTANEOUS PEAK FLOW		18300	37800
INSTANTANEOUS PEAK STAGE		17.12	19.77
ANNUAL RUNOFF (CFSM)	1.08	.92	1.31
ANNUAL RUNOFF (INCHES)	14.65	12.56	17.84
10 PERCENT EXCEEDS	1700	1240	1640
50 PERCENT EXCEEDS	60	30	164
90 PERCENT EXCEEDS	3.7	2.7	4.5

PEARL RIVER BASIN

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02481880 PEARL RIVER AT BURNSIDE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.41	4.57	4.58	12.07	17.01	9.31	11.25	5.93	4.91	5.49	4.41	3.97
2	4.42	4.60	4.57	11.97	16.09	9.50	11.19	5.65	4.97	5.11	4.31	3.94
3	4.43	4.60	4.57	12.38	14.56	10.79	11.06	5.45	4.91	4.98	4.27	3.94
4	4.54	4.65	4.55	12.51	13.54	11.46	11.05	5.38	4.62	5.07	4.23	3.94
5	4.28	4.57	4.58	12.61	12.92	12.27	11.26	5.36	4.50	5.26	4.21	4.24
6	4.31	4.58	4.60	12.38	12.48	12.49	11.51	5.44	4.49	5.20	4.19	4.31
7	4.40	4.62	4.61	12.10	12.05	12.30	11.45	5.47	4.52	5.13	4.17	4.28
8	4.45	4.70	4.77	12.02	11.58	12.13	11.02	5.79	4.45	5.24	4.17	4.29
9	4.48	4.81	4.82	12.33	11.05	12.21	10.44	5.73	4.42	5.70	4.21	4.17
10	4.48	5.22	4.64	12.54	10.47	12.15	9.86	5.56	4.42	5.54	4.29	4.08
11	4.46	5.47	6.24	12.79	9.83	12.31	9.43	5.29	4.44	5.34	4.30	4.34
12	4.48	4.59	8.86	12.81	9.25	12.12	9.07	5.29	4.68	5.14	4.27	4.62
13	4.48	4.45	8.94	12.56	8.73	11.91	8.62	5.43	4.73	4.91	4.25	4.52
14	4.48	4.62	8.82	12.26	8.22	12.65	8.06	5.67	4.70	4.84	4.23	4.47
15	4.46	4.65	8.75	11.98	7.74	13.31	8.30	5.62	4.64	4.84	4.20	4.32
16	4.46	4.57	8.72	11.69	7.36	13.53	8.41	5.45	5.64	4.74	4.18	4.14
17	4.48	4.54	8.65	11.35	7.20	13.25	8.13	5.31	5.96	4.66	4.15	4.04
18	4.47	4.63	8.47	10.94	7.49	12.84	8.00	5.18	5.68	4.59	4.14	4.02
19	4.48	4.59	8.06	10.43	7.70	12.44	8.08	5.05	5.34	4.81	4.14	4.02
20	4.50	4.61	7.44	9.95	7.96	12.01	7.98	4.92	5.11	4.72	4.14	4.01
21	4.50	4.68	7.07	9.58	8.06	11.59	7.71	4.80	4.94	4.69	4.10	4.06
22	4.49	4.64	6.83	9.31	7.99	11.10	7.15	4.71	4.84	4.57	4.00	4.03
23	4.50	4.63	6.79	11.58	7.81	10.62	6.64	5.34	4.83	4.44	3.96	4.00
24	4.51	4.53	8.11	13.34	7.60	10.16	6.41	5.58	4.77	4.40	3.96	3.98
25	4.51	4.55	9.33	14.79	7.45	10.25	6.11	5.23	4.72	4.36	4.02	3.98
26	4.51	4.58	10.03	14.39	7.35	10.68	5.99	5.01	4.65	4.32	4.06	3.99
27	4.53	4.59	10.35	13.63	7.42	10.85	5.99	4.90	5.18	4.29	4.05	4.03
28	4.54	4.59	10.72	13.01	8.68	11.18	6.00	4.79	5.42	4.43	4.03	4.07
29	4.54	4.60	11.22	12.62	---	11.08	5.93	4.73	5.93	4.45	4.01	4.29
30	4.56	4.59	11.58	13.47	---	10.93	5.88	4.81	6.00	4.38	4.00	4.49
31	4.56	---	12.19	16.05	---	11.13	---	4.93	---	4.55	3.99	---
MEAN	4.47	4.65	7.53	12.30	9.84	11.63	8.60	5.28	4.95	4.84	4.15	4.15
MAX	4.56	5.47	12.19	16.05	17.01	13.53	11.51	5.93	6.00	5.70	4.41	4.62
MIN	4.28	4.45	4.55	9.31	7.20	9.31	5.88	4.71	4.42	4.29	3.96	3.94

PEARL RIVER BASIN

02482000 PEARL RIVER AT EDINBURG, MS

LOCATION.--Lat 32°47'58", long 89°20'08", in SW1/4 SW1/4 sec.13, T.11 N., R.9 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, on right bank 10 ft downstream from bridge on State Highway 16 at Edinburg, 1,100 ft downstream from Hooper Mill Creek, 1.6 mi upstream from Rice Creek and at mile 387.5.

DRAINAGE AREA. -- 904 mi².

PERIOD OF RECORD.--August 1928 to current year. Daily mean gage heights published since January 1972. Gage-height records collected in same vicinity since 1908 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1504: 1929-30, 1933. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 341.67 ft above sea level. Prior to July 2, 1930, nonrecording gage at site 500 ft upstream at datum 0.12 ft higher. July 2, 1930 to Sept. 20, 1938, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: Jan. 12, Feb. 8-17, and Sept. 17-21. Records good except for estimated daily discharges, which are poor. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood in March 1902 reached a stage of 29.0 ft, from reports of National Weather Service.

EXTREMES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 2	1445	*18,200	*25.35	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	15	30	1150	12300	725	1290	158	78	96	19	8.2
2	11	17	30	1590	17700	778	1350	145	81	92	18	7.8
3	11	19	30	1950	16400	1930	1330	138	72	70	17	7.3
4	11	19	31	1900	12100	1700	1310	124	65	52	16	7.2
5	12	18	39	1960	8240	1970	1320	127	56	44	14	8.0
6	12	16	32	1860	6040	1910	1250	166	45	42	12	10
7	13	15	31	1840	4740	1750	1180	166	41	56	11	15
8	14	19	38	2020	e3550	1770	1140	142	44	63	11	26
9	13	30	51	2380	e2690	2280	1110	130	40	68	9.9	42
10	14	39	62	2330	e2090	2180	1020	123	34	68	9.5	31
11	14	115	310	2250	e1560	2080	878	117	31	77	10	21
12	13	154	842	e2150	e1160	1920	709	183	34	74	11	16
13	13	128	718	2070	e848	2100	586	186	28	60	15	14
14	12	94	726	2110	e641	2920	492	149	29	50	31	13
15	12	91	672	2050	e525	3150	551	135	35	40	25	14
16	12	75	561	1800	e457	3710	560	126	38	34	19	15
17	13	59	472	1540	e443	3800	632	110	36	39	15	e15
18	12	48	415	1330	463	3810	559	95	61	61	13	e14
19	12	43	391	1160	471	3550	453	84	75	63	11	e13
20	13	41	379	1000	482	2950	395	74	65	47	10	e12
21	13	59	339	861	476	2310	362	65	51	48	9.8	e10
22	13	55	299	908	464	1830	331	58	41	46	9.0	9.2
23	12	47	289	2310	449	1490	293	56	36	39	8.1	8.3
24	12	43	599	1900	433	1250	254	70	32	32	8.2	7.6
25	11	41	664	2470	412	1450	235	105	36	32	13	6.8
26	11	39	719	3090	390	1410	215	93	45	25	13	6.2
27	11	37	755	4430	401	1370	201	84	51	25	11	5.8
28	11	34	1100	5020	753	1340	191	69	61	28	11	5.6
29	13	33	1150	4800	---	1200	183	60	76	21	10	19
30	13	31	1170	5900	---	1150	173	67	83	19	9.2	24
31	12	---	1200	6860	---	1290	---	72	---	19	8.6	---
TOTAL	380	1474	14144	74989	96678	63073	20553	3477	1500	1530	408.3	412.0
MEAN	12.3	49.1	456	2419	3453	2035	685	112	50.0	49.4	13.2	13.7
MAX	14	154	1200	6860	17700	3810	1350	186	83	96	31	42
MIN	11	15	30	861	390	725	173	56	28	19	8.1	5.6
CFSM	.01	.05	.50	2.68	3.82	2.25	.76	.12	.06	.05	.01	.02
IN.	.02	.06	.58	3.09	3.98	2.60	.85	.14	.06	.06	.02	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1999, BY WATER YEAR (WY)

MEAN	181	449	1294	2172	2647	2661	2353	1201	369	402	226	148
MAX	2480	2702	8019	7148	7476	7188	10670	7632	1914	3830	1994	1890
(WY)	1976	1978	1962	1974	1983	1976	1979	1983	1939	1940	1975	1979
MIN	4.85	9.63	61.3	105	465	528	156	50.1	8.62	24.2	13.2	6.01
(WY)	1988	1954	1963	1956	1934	1954	1963	1965	1988	1960	1999	1954

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1928 - 1999
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ANNUAL TOTAL	378122		278618.3			
ANNUAL MEAN	1036		763		1168	
HIGHEST ANNUAL MEAN					3368	1983
LOWEST ANNUAL MEAN					236	1963
HIGHEST DAILY MEAN	11100	Jan 11	17700	Feb 2	73500	Apr 14 1979
LOWEST DAILY MEAN	11	Sep 30	5.6	Sep 28	2.2	Oct 5 1954
ANNUAL SEVEN-DAY MINIMUM	11	Sep 29	7.1	Sep 22	2.3	Sep 24 1956
INSTANTANEOUS PEAK FLOW			18200	Feb 2	77900	Apr 14 1979
INSTANTANEOUS PEAK STAGE			25.35	Feb 2	30.06	Apr 14 1979
INSTANTANEOUS LOW FLOW			5.5	Sep 28	1.7	Oct 5 1954
ANNUAL RUNOFF (CFSM)	1.15		.84		1.29	
ANNUAL RUNOFF (INCHES)	15.56		11.47		17.55	
10 PERCENT EXCEEDS	3350		2060		3060	
50 PERCENT EXCEEDS	152		70		340	
90 PERCENT EXCEEDS	14		11		26	

e Estimated

02482000 PEARL RIVER AT EDINBURG, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.66	1.80	2.21	10.15	23.89	8.12	10.70	3.98	2.98	3.22	1.82	1.36
2	1.64	1.87	2.21	11.73	25.26	8.39	10.95	3.83	3.01	3.18	1.80	1.33
3	1.65	1.95	2.20	13.05	24.99	12.96	10.85	3.75	2.89	2.85	1.76	1.31
4	1.66	1.96	2.22	12.88	23.94	12.22	10.80	3.58	2.79	2.59	1.70	1.30
5	1.69	1.93	2.41	13.09	22.41	13.13	10.82	3.62	2.64	2.43	1.62	1.35
6	1.72	1.85	2.25	12.75	20.71	12.94	10.53	4.05	2.46	2.40	1.56	1.46
7	1.75	1.79	2.24	12.71	19.01	12.40	10.27	4.06	2.38	2.65	1.52	1.66
8	1.79	1.92	2.38	13.29	---	12.48	10.10	3.79	2.43	2.77	1.48	2.02
9	1.77	2.25	2.64	14.37	---	14.06	9.94	3.66	2.36	2.83	1.45	2.40
10	1.78	2.44	2.81	14.22	---	13.77	9.56	3.57	2.24	2.84	1.43	2.14
11	1.78	3.57	5.05	13.99	---	13.49	8.89	3.49	2.15	2.97	1.47	1.88
12	1.76	4.03	8.69	---	---	12.97	8.02	4.24	2.23	2.92	1.51	1.73
13	1.75	3.73	8.08	13.44	---	13.50	7.32	4.26	2.08	2.71	1.68	1.65
14	1.71	3.30	8.12	13.58	---	15.71	6.73	3.87	2.11	2.55	2.15	1.61
15	1.69	3.26	7.82	13.37	---	16.19	7.11	3.71	2.24	2.37	2.01	1.63
16	1.72	3.03	7.17	12.58	---	17.29	7.16	3.60	2.31	2.24	1.81	1.67
17	1.76	2.79	6.60	11.65	---	17.46	7.59	3.40	2.28	2.34	1.67	---
18	1.71	2.62	6.20	10.87	6.54	17.47	7.16	3.21	2.73	2.72	1.59	---
19	1.70	2.52	6.03	10.15	6.60	16.98	6.47	3.07	2.94	2.76	1.51	---
20	1.75	2.47	5.94	9.49	6.67	15.77	6.06	2.92	2.79	2.48	1.48	---
21	1.75	2.78	5.63	8.81	6.63	14.16	5.81	2.79	2.56	2.52	1.45	---
22	1.73	2.73	5.30	8.96	6.55	12.67	5.57	2.68	2.38	2.47	1.40	1.41
23	1.70	2.57	5.21	14.14	6.45	11.47	5.24	2.65	2.26	2.33	1.35	1.37
24	1.68	2.50	7.35	12.90	6.33	10.52	4.91	2.87	2.18	2.17	1.36	1.33
25	1.65	2.45	7.78	14.62	6.18	11.27	4.73	3.34	2.27	2.17	1.58	1.28
26	1.66	2.41	8.08	16.06	6.02	11.16	4.55	3.18	2.46	2.01	1.58	1.24
27	1.65	2.38	8.27	18.53	6.09	11.04	4.41	3.06	2.57	2.01	1.52	1.22
28	1.63	2.32	9.87	19.44	8.26	10.89	4.32	2.85	2.73	2.09	1.50	1.20
29	1.75	2.27	10.11	19.11	---	10.35	4.24	2.72	2.94	1.89	1.46	1.80
30	1.72	2.23	10.19	20.56	---	10.14	4.13	2.80	3.04	1.82	1.41	2.01
31	1.69	---	10.35	21.50	---	10.69	---	2.90	---	1.81	1.38	---
MEAN	1.71	2.52	5.85	---	---	12.96	7.50	3.40	2.51	2.49	1.58	---
MAX	1.79	4.03	10.35	---	---	17.47	10.95	4.26	3.04	3.22	2.15	---
MIN	1.63	1.79	2.20	---	---	8.12	4.13	2.65	2.08	1.81	1.35	---

02482550 PEARL RIVER NEAR CARTHAGE, MS

LOCATION.--Lat 32°42'28", long 89°31'35", in NE1/4 NE1/4 sec.24, T.10 N., R.7 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, on left bank at downstream side of bridge on State Highway 35, 2.1 mi south of Carthage, 4.0 mi downstream from Lobutch Creek, 10.8 mi upstream from Tuscolameta Creek, and at mile 366.3.

DRAINAGE AREA. -- 1,346 mi².

PERIOD OF RECORD.--September 1962 to current year. Daily mean gage heights published since October 1971.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 315.24 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood in March 1902 reached a stage of about 27 ft, flood in 1900 reached a stage of 25.6 ft, flood in 1932 reached a stage of 24.3 ft, flood of Apr. 11, 1938, reached a stage of 23.3 ft, all from information by U. S. Army Corps of Engineers. Flood of Dec. 20, 1961, reached a stage of 25.4 ft, discharge, 31,900 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 3	2100	*22,400	*23.32	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	74	111	1960	15500	1540	2150	345	199	236	94	55
2	68	78	108	2410	17100	1360	2080	323	186	224	88	54
3	67	87	107	3260	20300	1350	2030	299	179	203	83	54
4	67	90	107	3220	20700	3760	2020	289	169	174	78	54
5	66	87	107	3100	16700	3480	2290	287	160	151	74	60
6	66	85	112	2910	12600	3470	2260	339	153	136	71	73
7	68	82	112	2760	9240	3300	2110	403	143	132	69	63
8	70	90	118	2960	6720	3050	1980	365	136	169	66	69
9	71	107	130	3570	5010	3630	1820	344	136	218	65	103
10	72	154	140	3790	3520	3770	1640	309	133	203	64	160
11	72	219	387	3660	2580	3490	1450	281	129	190	63	112
12	72	243	1670	3420	2110	3190	1220	320	132	205	62	87
13	72	247	1590	3180	1790	3370	1000	483	126	190	60	76
14	72	241	1340	3060	1480	4420	849	422	124	163	60	69
15	72	253	1170	2990	1220	4450	915	342	132	145	67	65
16	71	241	983	2680	1010	4420	1030	296	130	134	71	63
17	71	208	803	2340	875	4600	1060	273	132	132	67	62
18	70	186	672	2050	875	4670	1050	241	130	124	63	61
19	75	164	609	1810	923	4580	904	217	141	136	60	61
20	87	164	593	1630	996	4190	749	200	155	137	58	60
21	91	178	559	1480	995	3630	655	185	148	125	56	60
22	80	170	513	1610	911	2980	595	178	139	120	55	58
23	76	159	513	3960	832	2440	542	176	144	121	54	57
24	75	147	1100	4260	781	2060	487	169	130	119	59	56
25	74	138	1670	4350	742	2170	456	173	166	125	73	55
26	74	130	1620	4840	711	2590	435	198	197	124	71	55
27	73	126	1480	5290	698	2380	412	203	182	107	65	54
28	73	122	1850	5830	1400	2240	401	196	187	118	62	53
29	72	117	2350	6340	---	2080	387	188	233	117	60	70
30	73	114	2250	10000	---	1880	366	177	246	102	58	141
31	75	---	2100	13800	---	2040	---	190	---	93	56	---
TOTAL	2253	4501	26974	118520	148319	98730	35343	8411	4697	4673	2052	2120
MEAN	72.7	150	870	3823	5297	3185	1178	271	157	151	66.2	70.7
MAX	91	253	2350	13800	20700	4670	2290	483	246	236	94	160
MIN	66	74	107	1480	698	1360	366	169	124	93	54	53
CFSM	.05	.11	.65	2.84	3.94	2.37	.88	.20	.12	.11	.05	.05
IN.	.06	.12	.75	3.28	4.10	2.73	.98	.23	.13	.13	.06	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1999, BY WATER YEAR (WY)

MEAN	392	759	2224	3757	3979	4265	4096	2173	730	551	418	313
MAX	3511	3424	11360	11030	11060	12090	17460	11780	2919	2650	2636	2869
(WY)	1976	1978	1983	1974	1983	1980	1979	1983	1983	1989	1975	1979
MIN	39.4	66.7	205	405	859	1160	329	151	57.0	122	66.2	60.9
(WY)	1964	1964	1988	1986	1986	1967	1963	1963	1988	1996	1999	1987

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1963 - 1999
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ANNUAL TOTAL	588004		456593			
ANNUAL MEAN	1611		1251		1962	
HIGHEST ANNUAL MEAN					5247	1983
LOWEST ANNUAL MEAN					422	1963
HIGHEST DAILY MEAN	12700	Jan 12	20700	Feb 4	93800	Apr 14 1979
LOWEST DAILY MEAN	66	Oct 5	53	Sep 28	32	Oct 24 1963
ANNUAL SEVEN-DAY MINIMUM	67	Oct 1	55	Sep 22	33	Oct 24 1963
INSTANTANEOUS PEAK FLOW			22400	Feb 3	102000	Apr 14 1979
INSTANTANEOUS PEAK STAGE			23.32	Feb 3	28.74	Apr 14 1979
INSTANTANEOUS LOW FLOW			53	Aug 23,24a	31	Oct 30 1963
ANNUAL RUNOFF (CFSM)	1.20		.93		1.46	
ANNUAL RUNOFF (INCHES)	16.25		12.62		19.80	
10 PERCENT EXCEEDS	5270		3470		5100	
50 PERCENT EXCEEDS	381		190		692	
90 PERCENT EXCEEDS	76		65		106	

a Also occurred Sept. 27-28.

PEARL RIVER BASIN

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02482550 PEARL RIVER NEAR CARTHAGE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.92	2.94	3.40	10.60	22.00	9.68	11.03	5.50	4.41	4.54	3.38	2.84
2	2.91	2.99	3.38	11.50	22.38	9.31	10.87	5.37	4.30	4.45	3.32	2.81
3	2.90	3.11	3.36	13.10	23.01	13.45	10.77	5.22	4.24	4.29	3.25	2.82
4	2.89	3.15	3.36	13.03	23.07	13.91	10.74	5.15	4.14	4.06	3.19	2.82
5	2.87	3.11	3.35	12.83	22.25	13.46	11.32	5.14	4.06	3.85	3.14	2.91
6	2.87	3.08	3.42	12.49	20.84	13.45	11.26	5.46	3.98	3.71	3.10	3.12
7	2.90	3.05	3.42	12.23	19.05	13.17	10.94	5.83	3.87	3.67	3.07	2.97
8	2.92	3.15	3.48	12.59	17.22	12.74	10.66	5.62	3.80	4.03	3.04	3.04
9	2.93	3.35	3.61	13.61	15.50	13.70	10.29	5.49	3.80	4.45	3.02	3.50
10	2.94	3.83	3.71	13.96	13.51	13.92	9.87	5.28	3.76	4.34	3.01	4.09
11	2.94	4.40	5.26	13.75	11.88	13.48	9.43	5.10	3.71	4.24	3.00	3.60
12	2.94	4.58	9.91	13.36	10.93	12.99	8.87	5.35	3.73	4.36	2.98	3.29
13	2.94	4.61	9.73	12.97	10.21	13.28	8.26	6.25	3.67	4.25	2.96	3.14
14	2.93	4.57	9.07	12.76	9.56	14.84	7.78	5.93	3.64	4.01	2.95	3.04
15	2.92	4.66	8.59	12.64	8.98	14.87	8.00	5.48	3.71	3.85	3.05	2.98
16	2.91	4.57	7.99	12.07	8.46	14.84	8.35	5.20	3.69	3.74	3.11	2.95
17	2.90	4.32	7.36	11.42	8.10	15.05	8.44	5.04	3.70	3.73	3.05	2.93
18	2.89	4.13	6.85	10.81	8.10	15.13	8.40	4.81	3.68	3.65	2.98	2.92
19	2.96	3.94	6.59	10.27	8.24	15.03	7.96	4.63	3.78	3.78	2.94	2.90
20	3.10	3.94	6.51	9.84	8.43	14.54	7.41	4.49	3.91	3.80	2.90	2.90
21	3.16	4.06	6.36	9.45	8.43	13.71	7.03	4.37	3.85	3.68	2.87	2.89
22	3.02	4.00	6.15	9.72	8.20	12.62	6.77	4.29	3.74	3.63	2.85	2.87
23	2.96	3.90	6.15	14.20	7.97	11.61	6.53	4.27	3.79	3.64	2.84	2.84
24	2.95	3.78	8.27	14.63	7.79	10.83	6.27	4.21	3.64	3.63	2.91	2.82
25	2.94	3.69	9.92	14.75	7.64	11.05	6.12	4.23	3.94	3.70	3.12	2.81
26	2.94	3.61	9.80	15.33	7.52	11.91	6.01	4.44	4.24	3.69	3.11	2.81
27	2.93	3.57	9.44	15.83	7.46	11.50	5.89	4.48	4.11	3.51	3.02	2.79
28	2.92	3.53	10.32	16.39	9.36	11.22	5.82	4.41	4.15	3.64	2.96	2.78
29	2.91	3.48	11.44	16.89	---	10.86	5.74	4.34	4.50	3.63	2.93	3.05
30	2.92	3.43	11.22	19.47	---	10.43	5.63	4.24	4.61	3.47	2.90	3.88
31	2.95	---	10.90	21.33	---	10.78	---	4.34	---	3.37	2.87	---
MEAN	2.94	3.75	6.85	13.35	12.72	12.82	8.42	4.97	3.94	3.88	3.03	3.04
MAX	3.16	4.66	11.44	21.33	23.07	15.13	11.32	6.25	4.61	4.54	3.38	4.09
MIN	2.87	2.94	3.35	9.45	7.46	9.31	5.63	4.21	3.64	3.37	2.84	2.78

LOCATION.--Lat 32°35'17", long 89°27'54", in NE1/4 NW1/4 sec.34, T.9 N., R.8 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, on left bank at downstream side of bridge on State Highway 35, over north drainage canal, 1 mi south of city limits of Walnut Grove, 0.6 mi upstream from Illinois Central and Gulf Railroad bridge, 7.5 mi upstream from junction of north and south drainage canals, and 15.5 mi upstream from mouth.

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for October to December 1938, published in WSP 1304. Daily mean gage heights published since October 1971.

GAGE.--Water-stage recorder. Datum of gages is 322.70 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to June 18, 1939, nonrecording gage and June 18, 1939 to July 13, 1953, water-stage recorder and nonrecording gage, at site 0.2 mi upstream at same datum. Water-stage recorder, on south canal right bank at upstream side of bridge on State Highway 35, 1 mi south of north canal gage. Prior to Nov. 24, 1943, nonrecording gage and Nov. 24, 1943 to Oct. 21, 1959, water-stage recorder, on south canal at site 1,800 ft downstream, at same datum. Prior to Oct. 1, 1971, at datum 10.00 ft higher.

REMARKS.--Estimated daily discharges: June 4-6. Records good except for estimated daily discharges, which are poor. Discharge computed by combining flow of individually rated channels. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Prior to canalization, creek reached a stage of 34.5 ft present datum, from floodmark, believed to be flood of April 1900.

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 1	0145	*9,800	*27.50	No other peak greater than base discharge.			

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	34	53	257	8940	1670	641	51	97	35	15	10
2	20	36	53	603	6880	1110	464	44	55	30	15	10
3	20	43	49	1300	4000	2460	319	37	38	26	14	8.9
4	38	49	32	1100	1080	1790	320	34	e29	22	9.1	15
5	60	43	32	589	499	1220	456	34	e22	21	7.6	13
6	34	39	35	293	371	539	382	48	e16	18	6.7	13
7	25	39	39	276	320	396	264	59	13	15	7.5	17
8	24	44	47	509	279	300	198	48	15	19	8.3	27
9	30	63	62	886	245	1400	165	37	16	49	11	33
10	31	112	65	814	217	1880	138	36	17	30	18	23
11	27	217	305	504	201	1240	114	29	24	25	21	20
12	22	157	807	314	185	541	95	32	34	23	22	18
13	19	76	693	242	161	1100	64	47	36	31	17	16
14	19	64	456	198	145	3330	53	80	38	24	36	12
15	17	120	255	184	137	3620	712	53	55	21	19	12
16	17	131	176	179	136	2810	924	35	55	19	13	11
17	27	84	135	164	141	897	704	27	42	34	11	10
18	23	60	115	147	287	426	260	24	32	26	9.3	9.6
19	23	52	116	147	333	314	167	22	26	21	7.6	12
20	20	52	185	141	261	257	131	20	21	22	7.1	9.9
21	19	68	185	126	220	254	106	21	18	24	6.8	8.7
22	18	99	154	179	202	251	87	22	20	19	6.2	11
23	18	79	178	2220	181	211	75	29	21	16	5.1	14
24	18	67	611	2670	171	183	64	38	21	15	5.4	13
25	20	64	971	2740	157	456	64	36	28	12	9.2	14
26	25	62	763	1180	146	1210	71	37	55	37	14	21
27	30	61	407	387	189	880	71	36	66	44	16	16
28	31	59	604	270	1400	422	76	39	55	42	14	16
29	28	62	1020	525	---	264	65	34	54	37	12	26
30	27	55	822	4170	---	221	52	38	48	24	12	55
31	28	---	400	6860	---	480	---	167	---	18	12	---
TOTAL	778	2191	9825	30174	27484	32132	7302	1294	1067	799	387.9	495.1
MEAN	25.1	73.0	317	973	982	1037	243	41.7	35.6	25.8	12.5	16.5
MAX	60	217	1020	6860	8940	3620	924	167	97	49	36	55
MIN	17	34	32	126	136	183	52	20	13	12	5.1	8.7
CFSM	.06	.18	.77	2.37	2.39	2.52	.59	.10	.09	.06	.03	.04
IN.	.07	.20	.89	2.73	2.49	2.91	.66	.12	.10	.07	.04	.04

MEAN	109	311	604	1067	1276	1227	1041	510	174	187	107	80.0
MAX	1433	1657	3025	4061	4111	4089	3233	2482	780	2001	752	1244
(WY)	1976	1958	1962	1990	1990	1980	1973	1983	1989	1940	1982	1979
MIN	4.53	9.20	50.0	95.3	215	189	47.4	26.3	11.8	13.2	9.00	4.13
(WY)	1955	1954	1939	1988	1968	1967	1967	1965	1972	1956	1956	1954

ANNUAL TOTAL	225535		113929.0				
ANNUAL MEAN	618		312			554	
HIGHEST ANNUAL MEAN						1303	1983
LOWEST ANNUAL MEAN						144	1952
HIGHEST DAILY MEAN	9910	Jan 23	8940	Feb 1		32500	Jan 7 1950
LOWEST DAILY MEAN	15	Sep 11	5.1	Aug 23		2.7	Oct 2 1954
ANNUAL SEVEN-DAY MINIMUM	17	Sep 25	6.8	Aug 19		3.3	Sep 26 1954
INSTANTANEOUS PEAK FLOW			9800	Feb 1		34600	Jan 7 1950
INSTANTANEOUS PEAK STAGE			27.50	Feb 1		33.00	Jan 7 1950
ANNUAL RUNOFF (CFSM)	1.50		.76			1.35	
ANNUAL RUNOFF (INCHES)	20.41		10.31			18.32	
10 PERCENT EXCEEDS	1790		732			1460	
50 PERCENT EXCEEDS	102		49			109	
90 PERCENT EXCEEDS	21		14			16	

e Estimated

02483000 TUSCOLAMETA CREEK AT WALNUT GROVE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.88	11.33	11.51	12.81	27.29	18.00	14.91	11.49	11.97	11.42	11.22	11.01
2	10.87	11.35	11.49	14.61	26.68	15.91	14.16	11.42	11.61	11.31	11.23	11.00
3	10.87	11.40	11.46	16.92	24.30	21.20	13.47	11.35	11.47	11.29	11.25	11.00
4	11.07	11.45	11.27	15.89	17.17	18.95	13.46	11.31	11.43	11.26	11.11	11.16
5	11.12	11.38	11.27	14.09	14.38	17.66	14.09	11.29	11.34	11.24	11.05	11.20
6	11.01	11.37	11.28	13.10	13.67	14.84	13.55	11.37	11.22	11.21	11.00	11.19
7	10.98	11.38	11.33	13.07	13.46	14.01	12.99	11.52	11.16	11.14	10.98	11.19
8	11.02	11.43	11.40	14.35	13.22	13.37	12.66	11.44	11.16	11.23	11.01	11.35
9	11.13	11.57	11.50	15.59	13.01	17.92	12.50	11.32	11.17	11.23	11.07	11.39
10	11.10	11.68	11.56	15.27	12.84	18.88	12.33	11.34	11.26	11.21	11.16	11.22
11	11.05	12.54	12.66	14.13	12.71	16.39	12.19	11.25	11.36	11.26	11.14	11.21
12	11.01	12.11	15.40	13.28	12.60	14.25	12.09	11.20	11.43	11.30	11.19	11.14
13	10.99	11.57	14.80	12.88	12.46	16.47	11.85	11.39	11.45	11.48	11.13	11.08
14	11.01	11.51	13.96	12.64	12.34	23.36	11.76	11.52	11.46	11.29	11.08	11.08
15	11.01	11.77	12.86	12.54	12.31	23.80	14.94	11.37	11.42	11.26	11.17	11.08
16	11.04	11.72	12.35	12.48	12.31	21.71	14.89	11.24	11.46	11.23	11.14	11.06
17	11.02	11.58	12.10	12.38	12.33	16.07	14.09	11.16	11.41	11.28	11.09	11.05
18	11.03	11.50	11.97	12.30	13.14	14.15	12.86	11.12	11.37	11.27	11.07	11.07
19	11.07	11.44	11.92	12.30	13.35	13.53	12.31	11.10	11.33	11.27	11.02	11.19
20	11.03	11.47	12.32	12.20	12.99	13.20	12.06	11.11	11.29	11.25	10.99	11.13
21	11.04	11.60	12.25	12.13	12.76	13.20	11.89	11.14	11.26	11.25	10.99	11.09
22	11.06	11.81	12.11	12.48	12.64	13.17	11.75	11.16	11.33	11.25	10.99	11.07
23	11.08	11.64	12.25	20.51	12.48	12.87	11.68	11.25	11.28	11.20	10.96	11.12
24	11.07	11.57	14.31	21.46	12.44	12.69	11.58	11.32	11.30	11.20	10.99	11.17
25	11.14	11.54	15.52	21.65	12.37	14.05	11.57	11.32	11.37	11.15	11.04	11.17
26	11.21	11.51	14.50	16.86	12.32	16.70	11.66	11.35	11.59	11.22	11.03	11.18
27	11.28	11.54	13.37	13.63	12.54	15.28	11.65	11.37	11.70	11.19	11.13	11.19
28	11.30	11.54	14.59	13.06	17.67	13.82	11.67	11.45	11.60	11.41	11.14	11.24
29	11.28	11.58	15.83	14.07	---	13.13	11.59	11.38	11.64	11.48	11.10	11.35
30	11.27	11.53	14.87	24.53	---	12.87	11.48	11.37	11.58	11.37	11.08	11.54
31	11.29	---	13.47	26.55	---	14.36	---	12.54	---	11.30	11.05	---
MEAN	11.08	11.58	12.82	15.15	14.56	15.99	12.66	11.35	11.41	11.27	11.08	11.16
MAX	11.30	12.54	15.83	26.55	27.29	23.80	14.94	12.54	11.97	11.48	11.25	11.54
MIN	10.87	11.33	11.27	12.13	12.31	12.69	11.48	11.10	11.16	11.14	10.96	11.00

PEARL RIVER BASIN

02483500 PEARL RIVER NEAR LENA, MS

LOCATION.--Lat 32°40'02", long 89°38'45", in SE1/4 SE1/4 sec.35, T.10 N., R.6 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, County code 079, at State Highway 25, 2.7 mi south of Highway 16 intersection, 6.1 mi northwest of Lena, about 353.8 mi upstream from the mouth, and 2.8 mi upstream of the confluence with the Yockanookany River. The gage is located approximately 52.0 mi upstream of the Ross Barnett Reservoir Dam.

DRAINAGE AREA.--1981 mi².

PERIOD OF RECORD.--Oct. 1936 to Sept. 1953, Oct. 1994 to current year. Additional gage-height and discharge records are available from the National Weather Service and the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Elevation of gage is 300.00 ft above sea level, from U.S. Army Corps of Engineers levels. Prior to Jan. 1984 at site of old Highway 13 bridge, .3 mi upstream at datum 0.5 ft lower.

REMARKS.--Estimated daily discharges: Dec. 11-14. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1979, reached a stage of 32.20 ft at datum 0.5 ft lower, and a discharge of 122,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 2	1700	*27,200	*24.97	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	99	141	3410	21600	3560	3210	483	369	399	163	88
2	123	114	135	3820	26500	3300	3050	453	320	353	151	87
3	123	116	131	5900	26800	6140	2720	424	294	304	137	86
4	120	118	133	6150	24700	8240	2640	405	279	267	124	86
5	133	121	136	5510	20100	7130	3180	401	255	233	109	90
6	163	117	134	4740	16100	5870	3260	455	235	213	101	114
7	153	112	143	4360	12200	5160	3030	522	220	198	98	115
8	134	128	152	4580	9060	4650	2860	582	204	203	98	119
9	126	146	157	5690	6730	5820	2650	598	197	290	98	187
10	124	189	179	6180	4840	7050	2220	591	193	366	97	193
11	127	299	e570	5730	3250	6510	1840	512	187	337	97	189
12	129	388	e2120	5180	2410	5380	1540	499	188	304	97	170
13	126	355	e2660	4740	1980	5130	1280	645	193	288	96	159
14	118	334	e2240	4410	1690	7710	1080	674	200	263	99	128
15	117	324	1760	4180	1480	8960	1250	638	201	227	103	105
16	114	355	1540	3740	1290	8990	2030	569	215	208	103	98
17	110	353	1390	3110	1170	8470	2150	471	216	195	97	91
18	113	306	1150	2600	1170	6670	1830	402	214	191	92	88
19	131	259	900	2230	1370	5880	1420	349	208	195	85	87
20	127	241	792	1990	1440	5320	1150	315	209	219	80	87
21	130	249	784	1810	1460	4610	944	289	207	219	76	85
22	120	232	726	1820	1430	3840	815	270	200	196	75	79
23	109	233	694	5610	1350	3050	729	281	201	185	74	76
24	105	218	1530	7640	1230	2490	656	269	198	193	97	77
25	100	204	2940	7740	1120	2550	597	258	197	198	112	76
26	100	185	3030	7920	1050	3860	574	273	272	191	109	74
27	102	175	2700	7360	1040	4060	563	292	285	194	105	74
28	104	162	3040	7490	2340	3390	553	290	306	203	103	77
29	101	157	4420	7890	---	2910	556	295	336	217	95	101
30	101	152	4580	11900	---	2590	529	278	394	202	88	121
31	100	---	3980	18100	---	2710	---	272	---	178	88	---
TOTAL	3707	6441	44987	173530	196900	162000	50906	13055	7193	7429	3147	3207
MEAN	120	215	1451	5598	7032	5226	1697	421	240	240	102	107
MAX	163	388	4580	18100	26800	8990	3260	674	394	399	163	193
MIN	100	99	131	1810	1040	2490	529	258	187	178	74	74
MED	120	196	900	5180	1840	5160	1480	405	212	213	98	89
CFSM	.06	.11	.73	2.83	3.55	2.64	.86	.21	.12	.12	.05	.05
IN.	.07	.12	.84	3.26	3.70	3.04	.96	.25	.14	.14	.06	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1999, BY WATER YEAR (WY)

	243	715	2019	4949	6219	5615	4241	2235	1055	1121	593	307
MEAN	243	715	2019	4949	6219	5615	4241	2235	1055	1121	593	307
MAX	940	4421	8928	14570	12920	10310	11520	9072	4860	9383	2233	1395
(WY)	1995	1949	1949	1949	1946	1944	1938	1953	1997	1940	1946	1950
MIN	50.0	70.0	250	624	1190	2361	1460	421	180	158	90.3	85.5
(WY)	1944	1937	1939	1940	1943	1940	1942	1999	1941	1952	1943	1952

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1937 - 1999

ANNUAL TOTAL	957876	672502	2423
ANNUAL MEAN	2624	1842	4843
HIGHEST ANNUAL MEAN			1949
LOWEST ANNUAL MEAN			989
HIGHEST DAILY MEAN	18600	Jan 25	45500
LOWEST DAILY MEAN	99	Nov 1	40
ANNUAL SEVEN-DAY MINIMUM	101	Oct 26	44
INSTANTANEOUS PEAK FLOW			46500
INSTANTANEOUS PEAK STAGE		24.97	28.56
INSTANTANEOUS LOW FLOW		68	40
ANNUAL RUNOFF (CFSM)	1.32	.93	1.22
ANNUAL RUNOFF (INCHES)	17.99	12.63	16.62
10 PERCENT EXCEEDS	8820	5550	6610
50 PERCENT EXCEEDS	577	292	815
90 PERCENT EXCEEDS	130	99	126

e Estimated

02483500 PEARL RIVER NEAR LENA , MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.26	4.28	4.47	10.60	23.83	10.81	10.33	5.22	4.92	5.00	4.43	4.24
2	4.26	4.33	4.46	11.11	24.86	10.46	10.11	5.14	4.80	4.88	4.40	4.23
3	4.27	4.33	4.45	13.58	24.91	13.76	9.64	5.07	4.74	4.76	4.37	4.23
4	4.26	4.34	4.46	13.85	24.59	15.94	9.52	5.01	4.70	4.67	4.34	4.23
5	4.29	4.35	4.46	13.15	23.32	14.85	10.29	5.00	4.64	4.58	4.31	4.24
6	4.37	4.34	4.46	12.27	21.39	13.55	10.40	5.15	4.59	4.53	4.29	4.30
7	4.35	4.33	4.48	11.83	19.06	12.77	10.08	5.32	4.55	4.50	4.28	4.30
8	4.31	4.37	4.50	12.08	16.67	12.17	9.84	5.46	4.51	4.52	4.28	4.31
9	4.29	4.43	4.51	13.35	14.45	13.48	9.53	5.49	4.49	4.74	4.28	4.48
10	4.29	4.53	4.57	13.89	12.38	14.78	8.86	5.48	4.48	4.92	4.28	4.49
11	4.30	4.81	---	13.40	10.38	14.23	8.18	5.29	4.47	4.85	4.28	4.48
12	4.30	5.03	---	12.79	9.16	13.00	7.61	5.26	4.47	4.77	4.28	4.44
13	4.30	4.96	---	12.28	8.44	12.72	7.07	5.62	4.48	4.73	4.27	4.41
14	4.29	4.91	---	11.89	7.90	15.42	6.64	5.69	4.50	4.67	4.28	4.33
15	4.28	4.88	8.15	11.60	7.49	16.60	7.00	5.60	4.50	4.58	4.29	4.28
16	4.28	4.96	7.73	11.04	7.11	16.62	8.52	5.43	4.54	4.53	4.29	4.25
17	4.27	4.96	7.42	10.19	6.84	16.14	8.74	5.19	4.54	4.50	4.27	4.23
18	4.28	4.85	6.93	9.46	6.84	14.39	8.16	5.01	4.54	4.49	4.25	4.22
19	4.33	4.73	6.35	8.88	7.26	13.56	7.36	4.87	4.52	4.50	4.23	4.22
20	4.32	4.69	6.10	8.46	7.40	12.94	6.80	4.79	4.52	4.56	4.22	4.22
21	4.33	4.71	6.08	8.12	7.45	12.12	6.34	4.72	4.52	4.57	4.21	4.21
22	4.31	4.67	5.94	8.11	7.38	11.16	6.03	4.68	4.50	4.51	4.20	4.20
23	4.29	4.67	5.86	13.21	7.22	10.11	5.82	4.70	4.50	4.48	4.20	4.19
24	4.28	4.64	7.62	15.36	6.97	9.28	5.64	4.67	4.50	4.50	4.26	4.19
25	4.27	4.61	9.95	15.46	6.74	9.37	5.50	4.65	4.49	4.51	4.30	4.19
26	4.27	4.56	10.08	15.63	6.57	11.19	5.44	4.68	4.68	4.50	4.30	4.18
27	4.28	4.54	9.63	15.09	6.55	11.45	5.41	4.73	4.71	4.51	4.29	4.19
28	4.28	4.52	10.09	15.22	8.96	10.58	5.39	4.72	4.77	4.53	4.28	4.20
29	4.29	4.50	11.90	15.61	---	9.91	5.40	4.74	4.84	4.56	4.26	4.26
30	4.29	4.49	12.09	18.76	---	9.45	5.33	4.70	4.99	4.53	4.24	4.31
31	4.28	---	11.35	22.45	---	9.62	---	4.68	---	4.47	4.24	---
MEAN	4.29	4.61	---	12.86	12.22	12.66	7.70	5.06	4.60	4.61	4.28	4.28
MAX	4.37	5.03	---	22.45	24.91	16.62	10.40	5.69	4.99	5.00	4.43	4.49
MIN	4.26	4.28	---	8.11	6.55	9.28	5.33	4.65	4.47	4.47	4.20	4.18
MED	4.29	4.59	---	12.79	8.17	12.77	7.49	5.01	4.53	4.53	4.28	4.23

PEARL RIVER BASIN

02484000 YOCKANOOKANY RIVER NEAR KOSCIUSKO. MS

LOCATION.--Lat 33°01'55", long 89°34'40", in NE1/4 NE1/4 sec.33, T.14 N., R.7 E., Choctaw Meridian, Attala County, Hydrologic Unit 03180001, on left bank at downstream side of bridge on State Highway 35, 2.0 mi south of Kosciusko.

DRAINAGE AREA.--303 mi².

PERIOD OF RECORD.--August 1938 to current year. Prior to October 1947, published as Yokahockany River near Kosciusko.

REVISED RECORDS.--WSP 1504: 1946. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is above 374.34 ft above sea level, (levels by U. S. Army Corps of Engineers). Prior to Mar. 28, 1939, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 3-10. Records good except for estimated daily discharges, which are poor.
Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1932 reached a stage of about 17 ft, from information by U. S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 25	1500	4,830	14.34	Feb. 1	0100	*8,240	*15.94

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	13	22	1030	7530	775	311	63	57	48	21	10
2	17	15	22	1110	4630	456	256	51	37	40	18	9.7
3	52	19	e22	2260	2390	1700	202	45	30	34	18	9.6
4	18	16	e23	2300	848	1970	870	43	27	31	16	9.5
5	14	16	e23	1970	354	1730	1450	45	24	28	17	9.9
6	16	16	e22	1170	277	1100	1000	432	22	50	15	13
7	14	14	e26	488	240	478	364	565	21	184	14	12
8	15	17	e94	789	217	325	230	205	20	134	13	11
9	16	32	e130	1640	187	1030	180	94	21	50	14	78
10	15	39	e80	2120	169	1490	157	61	20	37	18	69
11	14	44	344	1890	158	1150	123	49	20	35	42	25
12	14	40	1080	1470	184	451	100	108	19	31	25	16
13	13	28	1290	543	229	635	84	319	20	30	19	13
14	13	62	881	336	181	1280	73	204	20	29	17	11
15	13	88	303	311	150	1440	331	94	28	27	15	9.9
16	13	66	161	262	136	946	565	61	36	25	13	8.9
17	13	38	111	219	202	419	274	48	27	53	13	8.3
18	12	29	90	266	495	290	142	41	24	63	12	7.9
19	12	24	80	221	473	229	100	36	21	41	12	7.7
20	13	26	88	174	447	190	81	33	19	31	11	7.5
21	13	32	90	157	306	186	71	31	18	34	12	7.5
22	13	38	131	409	227	178	63	29	16	24	10	7.5
23	12	31	447	2110	184	149	55	34	16	22	10	7.5
24	12	29	1490	3210	169	134	54	37	16	20	26	7.5
25	12	25	2040	4570	152	522	63	33	37	20	17	7.5
26	12	24	1770	3610	139	1010	92	46	85	21	18	7.5
27	12	24	1090	1700	142	604	114	59	70	21	17	7.5
28	12	22	1410	426	560	300	109	36	238	31	14	7.5
29	13	22	2310	1230	---	213	79	30	154	29	12	98
30	12	21	2210	6380	---	187	71	27	70	23	12	48
31	12	---	1990	7450	---	273	---	32	---	24	11	---
TOTAL	452	910	19870	51821	21376	21840	7664	2991	1233	1270	502	552.9
MEAN	14.6	30.3	641	1672	763	705	255	96.5	41.1	41.0	16.2	18.4
MAX	52	88	2310	7450	7530	1970	1450	565	238	184	42	98
MIN	10	13	22	157	136	134	54	27	16	20	10	7.5
CFSM	.05	.10	2.12	5.52	2.52	2.33	.84	.32	.14	.14	.05	.06
IN.	.06	.11	2.44	6.36	2.62	2.68	.94	.37	.15	.16	.06	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1999, BY WATER YEAR (WY)

MEAN	84.0	255	572	855	983	955	783	431	169	171	72.5	66.5
MAX	748	1694	3640	3010	2318	3132	3818	2756	1322	1241	492	687
(WY)	1976	1980	1983	1974	1951	1980	1979	1991	1997	1989	1975	1979
MIN	5.28	15.3	43.5	49.4	173	177	50.4	20.6	11.5	17.0	3.95	4.56
(WY)	1944	1954	1944	1956	1986	1966	1967	1963	1988	1996	1943	1954

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1938 - 1999
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ANNUAL TOTAL	131524		130481.9			
ANNUAL MEAN	360		357		447	
HIGHEST ANNUAL MEAN					1217	1983
LOWEST ANNUAL MEAN					90.6	1963
HIGHEST DAILY MEAN	3760	Mar 10	7530	Feb 1	34300	Apr 13 1979
LOWEST DAILY MEAN	10	Sep 10	7.5	Sep 20	2.3	Aug 20 1943
ANNUAL SEVEN-DAY MINIMUM	11	Sep 25	7.5	Sep 20	2.4	Aug 19 1943
INSTANTANEOUS PEAK FLOW			8240	Feb 1	40700	Apr 13 1979
INSTANTANEOUS PEAK STAGE			15.94	Feb 1	23.06	Apr 13 1979
INSTANTANEOUS LOW FLOW			7.5	Sep 19-28	2.3	Aug 20 1943
ANNUAL RUNOFF (CFSM)	1.19		1.18		1.48	
ANNUAL RUNOFF (INCHES)	16.15		16.02		20.05	
10 PERCENT EXCEEDS	1180		1100		1230	
50 PERCENT EXCEEDS	50		45		94	
90 PERCENT EXCEEDS	13		12		14	

e Estimated

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LOCATION. --Lat 32°42'21", long 89°40'19", in NE1/4 NW1/4 sec.22, T.10 N., R.6 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, near center of main span on downstream side of bridge on State Highway 16, 1.5 mi east of Ofahoma, 3.5 mi upstream from mouth, and 8.5 mi southwest of Carthage.

PERIOD OF RECORD.--October 1943 to current year. Daily mean gage heights published since October 1971. Prior to October 1947 published as Yokahockany River near Ofahoma.

GAGE.--Water-stage recorder. Datum of gage is 306.15 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to June 10, 1988, at datum 5.00 ft. higher. Prior to Sept. 5, 1962, nonrecording gage at same site.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 28	1115	3,120	18.78	Feb. 2	----	*7,610	*22.02

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	19	39	1500	e4470	432	610	140	59	184	34	21
2	20	20	39	1760	e6450	445	549	124	57	117	32	20
3	20	22	39	2380	e7180	1850	527	117	78	82	30	20
4	20	21	39	2030	5120	1990	686	112	70	67	28	20
5	46	24	39	1630	3370	1690	896	108	60	56	25	21
6	39	24	39	1590	2290	1690	821	117	55	49	24	23
7	28	23	39	1650	1480	1610	985	147	50	45	23	23
8	24	25	39	1670	864	1460	1130	255	46	62	24	22
9	23	38	46	1750	551	1600	1050	315	43	155	24	50
10	22	42	81	1630	411	1380	720	313	42	156	23	25
11	22	67	238	1450	331	1120	e460	194	43	104	22	25
12	23	60	779	1500	291	1140	e335	174	43	85	21	63
13	22	61	629	1530	274	1310	272	274	52	72	29	43
14	22	68	483	1470	274	1550	e230	217	46	60	36	29
15	21	70	524	1320	288	1350	e345	255	49	51	28	24
16	20	86	687	1060	259	1230	e310	224	47	45	24	21
17	20	104	760	736	234	1280	e340	142	46	41	23	19
18	20	95	578	568	249	1270	e415	98	58	39	21	18
19	22	73	313	481	309	1120	441	85	55	44	21	16
20	22	67	212	438	392	819	337	79	48	72	20	16
21	20	72	184	411	468	590	234	72	44	60	20	15
22	19	58	180	424	513	460	194	66	42	46	19	14
23	18	57	189	1230	483	396	166	65	43	42	19	14
24	18	58	776	1300	386	362	147	63	41	41	21	14
25	19	58	963	1260	298	563	138	61	50	40	25	14
26	18	50	815	1600	254	634	133	65	57	37	23	14
27	18	45	986	2330	253	595	141	63	62	43	32	14
28	19	41	1410	3020	593	685	163	72	105	42	26	14
29	19	40	1880	e2480	---	840	177	91	115	56	24	19
30	19	39	1710	e1930	---	792	167	72	196	39	24	33
31	19	---	1490	e2980	---	709	---	62	---	38	23	---
TOTAL	682	1527	16225	47108	38335	32962	13119	4242	1802	2070	768	684
MEAN	22.0	50.9	523	1520	1369	1063	437	137	60.1	66.8	24.8	22.8
MAX	46	104	1880	3020	7180	1990	1130	315	196	184	36	63
MIN	18	19	39	411	234	362	133	61	41	37	19	14
CFSM	.05	.11	1.12	3.24	2.92	2.27	.93	.29	.13	.14	.05	.05
IN.	.05	.12	1.29	3.74	3.04	2.61	1.04	.34	.14	.16	.06	.05

MEAN	122	324	825	1307	1493	1449	1301	735	243	202	120	88.7
MAX	1073	2132	5617	5142	3433	4278	6209	3690	1234	1461	719	1100
(WY)	1976	1980	1983	1974	1946	1980	1979	1983	1997	1989	1975	1979
MIN	10.6	17.5	50.0	62.8	251	344	108	45.6	18.4	22.0	9.20	7.46
(WY)	1956	1954	1944	1956	1986	1966	1963	1963	1988	1952	1954	1954

ANNUAL TOTAL	181062		159524			
ANNUAL MEAN	496		437		680	
HIGHEST ANNUAL MEAN					1868	1983
LOWEST ANNUAL MEAN					131	1963
HIGHEST DAILY MEAN	3220	Jan 23	7180	Feb 3	40900	Apr 15 1979
LOWEST DAILY MEAN	18	Oct 23	14	Sep 22	5.3	Aug 20 1954
ANNUAL SEVEN-DAY MINIMUM	18	Oct 22	14	Sep 22	6.3	Sep 7 1954
INSTANTANEOUS PEAK FLOW			7610	Feb 2	46500	Apr 14 1979
INSTANTANEOUS PEAK STAGE			22.02a	Feb 2	28.27	Apr 14 1979
INSTANTANEOUS LOW FLOW			14	Sep 22-29	4.9	Aug 20 1954
ANNUAL RUNOFF (CFSM)	1.06		.93		1.45	
ANNUAL RUNOFF (INCHES)	14.36		12.65		19.70	
10 PERCENT EXCEEDS	1610		1460		1820	
50 PERCENT EXCEEDS	107		72		177	
90 PERCENT EXCEEDS	22		20		27	

a From floodmark.

PEARL RIVER BASIN

02484500 YOCKANOOKANY RIVER NEAR OFAHOMA, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.05	5.02	5.42	14.58	---	9.44	9.91	6.73	5.86	7.25	5.39	5.19
2	5.05	5.05	5.42	15.50	---	9.50	9.56	6.57	5.83	6.53	5.35	5.16
3	5.05	5.10	5.41	17.29	---	15.76	9.42	6.50	6.14	6.06	5.32	5.15
4	5.05	5.07	5.41	16.36	20.90	16.23	10.30	6.45	6.03	5.84	5.26	5.17
5	5.65	5.15	5.43	15.06	19.12	15.26	11.41	6.41	5.85	5.66	5.21	5.18
6	5.51	5.17	5.41	14.92	17.04	15.29	11.04	6.55	5.76	5.54	5.18	5.25
7	5.28	5.13	5.42	15.11	14.49	14.98	11.84	6.90	5.66	5.48	5.16	5.24
8	5.18	5.17	5.43	15.19	11.85	14.38	12.63	7.96	5.58	5.75	5.19	5.23
9	5.16	5.47	5.55	15.49	10.18	14.94	12.21	8.46	5.53	7.00	5.19	5.83
10	5.14	5.55	6.13	15.03	9.30	13.97	10.53	8.45	5.49	7.02	5.17	5.30
11	5.13	5.99	7.72	14.33	8.74	12.54	---	7.43	5.52	6.42	5.16	5.30
12	5.16	5.88	11.32	14.59	8.43	12.67	---	7.26	5.50	6.16	5.13	6.08
13	5.14	5.90	10.51	14.67	8.29	13.63	7.73	8.19	5.67	5.97	5.32	5.71
14	5.13	5.99	9.64	14.43	8.30	14.76	---	7.71	5.55	5.78	5.49	5.43
15	5.11	6.03	9.89	13.67	8.41	13.82	---	8.06	5.61	5.62	5.31	5.29
16	5.10	6.26	10.83	12.23	8.16	13.20	---	7.80	5.55	5.52	5.22	5.22
17	5.09	6.51	11.22	10.60	7.95	13.47	---	6.99	5.54	5.46	5.18	5.16
18	5.08	6.37	10.20	9.67	8.08	13.41	---	6.48	5.74	5.43	5.15	5.12
19	5.15	6.06	8.46	9.14	8.57	12.55	9.01	6.32	5.69	5.52	5.13	5.09
20	5.16	5.96	7.62	8.87	9.17	11.02	8.33	6.23	5.55	6.02	5.11	5.07
21	5.09	6.04	7.36	8.68	9.67	9.79	7.52	6.12	5.48	5.83	5.11	5.06
22	5.06	5.80	7.31	8.74	9.95	9.00	7.17	6.03	5.43	5.58	5.11	5.03
23	5.03	5.79	7.40	13.20	9.77	8.59	6.91	6.01	5.44	5.50	5.10	5.02
24	5.03	5.81	11.20	13.54	9.13	8.35	6.71	5.96	5.41	5.48	5.15	5.01
25	5.03	5.80	12.22	13.33	8.48	9.58	6.63	5.92	5.55	5.47	5.26	5.01
26	5.03	5.66	11.50	14.92	8.12	10.05	6.59	5.99	5.69	5.43	5.21	5.01
27	5.03	5.57	12.33	17.12	8.10	9.83	6.69	5.96	5.75	5.56	5.44	5.01
28	5.02	5.48	14.19	18.60	10.43	10.33	6.95	6.09	6.38	5.53	5.30	5.00
29	5.02	5.46	15.93	---	---	11.13	7.10	6.36	6.51	5.80	5.26	5.14
30	5.02	5.44	15.34	---	---	10.89	7.02	6.08	7.37	5.49	5.25	5.48
31	5.02	---	14.52	---	---	10.46	---	5.91	---	5.46	5.22	---
MEAN	5.12	5.66	9.09	---	---	12.22	---	6.77	5.76	5.84	5.23	5.23
MAX	5.65	6.51	15.93	---	---	16.23	---	8.46	7.37	7.25	5.49	6.08
MIN	5.02	5.02	5.41	---	---	8.35	---	5.91	5.41	5.43	5.10	5.00

02485700 HANGING MOSS CREEK AT JACKSON, MS

LOCATION.--Lat 32°21'53", long 90°08'41", in SW1/4 NE1/4 sec.13, T.6 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, on left bank of Hanging Moss Creek, 600 ft east of Old Canton Road, at Farham Bridges Park, 0.7 mi upstream from Whiteoak Creek, and 1.4 mi upstream from the mouth.

DRAINAGE AREA.--16.8 mi².

PERIOD OF RECORD.--October 1952 to September 1980 (annual maximums only). October 1980 to current year. Daily mean gage heights published since October 1980.

REVISED RECORDS.--WDR MS-85-1: 1984, WDR MS-90-1: 1983.

GAGE.--Water-stage recorder. Datum of gage is 260.00 ft above sea level. Prior to May 31, 1961, at datum 72.23 ft lower. From June 1, 1961 to July 10, 1980, at datum 1.33 ft higher. Prior to July 11, 1980, site located 0.6 mi upstream at downstream side of bridge on frontage road, 100 ft downstream from U. S. Highway 51 (Interstate 55).

REMARKS.--Estimated daily discharges: Jan. 31 - Feb. 7, Apr. 19-20, and May 5. Occasional backwater from the Pearl River. Records good except for estimated daily discharges, which are poor. Statistics shown below are for water years 1981 to current year, except for instantaneous extremes, which are shown for the entire period of record at the present datum. Telemeter and satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 30	1030	*3,260	*17.37	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.12	.27	1.2	e25	5.7	15	.47	.58	1.3	.36	.66
2	.04	4.1	.28	201	e9.1	16	6.4	.41	.55	.74	.26	.16
3	.05	.25	.44	15	e3.7	74	4.0	.38	.55	.48	.14	.12
4	.04	.17	.54	3.8	e2.2	6.8	124	1.1	.58	.38	.11	.58
5	.05	.16	.63	1.8	e1.8	3.1	20	e.70	.63	.31	.10	.36
6	.39	.19	.69	3.4	e1.4	4.5	7.6	3.2	.61	.29	.10	.46
7	.42	.63	1.2	10	e1.1	2.3	3.1	.72	.60	15	.10	.49
8	.12	4.6	1.7	64	1.4	50	1.8	.54	.64	13	.09	2.0
9	.08	2.5	.53	38	1.3	157	1.5	.56	.64	2.2	.33	.60
10	.08	24	6.7	7.8	1.1	9.0	1.5	.61	.60	24	2.5	.15
11	.08	.75	148	3.0	1.5	4.5	1.1	20	.77	20	.25	.10
12	.06	1.7	.81	1.8	4.7	7.9	1.3	6.5	.66	7.4	.16	.07
13	.08	1.6	7.4	2.2	1.8	192	.97	1.1	.60	1.5	.11	.07
14	.09	12	1.2	3.1	1.4	52	19	.66	76	1.3	.10	.07
15	.07	.97	.65	3.0	1.2	16	6.3	.50	2.3	1.0	.10	.07
16	.09	.27	.54	1.9	.87	7.8	.57	.43	.35	60	.09	.07
17	.09	.18	.50	1.7	24	4.8	.43	.37	.40	4.7	.09	.07
18	.12	.18	.52	1.5	8.6	3.7	.59	2.0	.50	.54	.09	.07
19	.14	.21	13	1.4	3.0	3.1	e.35	.49	.47	6.0	.09	.07
20	.13	3.3	1.1	1.5	2.0	2.8	e.74	.38	.45	2.9	.09	.06
21	.12	.60	.68	1.2	2.1	3.7	.66	.51	.46	.45	.08	.06
22	.10	.24	1.3	129	1.6	3.2	.60	.88	.58	.19	.07	.05
23	.09	.20	49	72	1.2	2.9	.62	.97	.47	.14	.09	.07
24	.10	.17	96	7.5	1.1	5.3	.61	.90	.49	40	.08	.06
25	.13	.16	6.9	3.6	.96	98	.60	.71	176	2.5	.08	.06
26	.12	.14	2.4	2.0	1.0	16	5.8	3.8	29	5.9	.08	.05
27	.12	.16	1.4	1.5	104	6.1	3.3	.93	3.6	3.0	.17	.05
28	.11	.19	155	1.6	48	3.4	.76	.70	1.2	.93	.12	.12
29	.11	.29	8.2	419	---	3.4	.69	.71	31	.24	.10	91
30	.12	.27	2.2	1320	---	14	.57	2.7	4.8	.17	.09	1.8
31	.12	---	1.1	e165	---	43	---	.70	---	.93	11	---
TOTAL	3.50	60.30	591.07	2489.5	257.13	822.0	230.46	54.63	336.08	217.49	49.89	99.62
MEAN	.11	2.01	19.1	80.3	9.18	26.5	7.68	1.76	11.2	7.02	1.61	3.32
MAX	.42	24	155	1320	104	192	124	20	176	60	33	91
MIN	.04	.12	.27	1.2	.87	2.3	.35	.37	.35	.14	.07	.05
CFSM	.01	.12	1.13	4.78	.55	1.58	.46	.10	.67	.42	.10	.20
IN.	.01	.13	1.31	5.51	.57	1.82	.51	.12	.74	.48	.11	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1999, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	10.0	22.7	34.2	47.5	46.4	37.6	40.3	16.4	11.4	11.2	8.82	4.11							
MAX	57.3	95.6	201	146	142	71.4	159	49.5	39.8	35.9	31.1	12.2							
(WY)	1986	1990	1983	1994	1994	1983	1983	1990	1997	1989	1982	1989							
MIN	.11	2.01	1.59	1.47	6.09	14.6	1.13	1.17	1.55	1.48	.98	.59							
(WY)	1999	1999	1981	1981	1995	1992	1992	1982	1995	1987	1991	1993							

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1981 - 1999
ANNUAL TOTAL	8274.45	5211.67	
ANNUAL MEAN	22.7	14.3	24.1
HIGHEST ANNUAL MEAN			57.5
LOWEST ANNUAL MEAN			11.1
HIGHEST DAILY MEAN	922	Jan 22	1780
LOWEST DAILY MEAN	.03	Sep 4	.01
ANNUAL SEVEN-DAY MINIMUM	.04	Sep 2	.04
INSTANTANEOUS PEAK FLOW			3260
INSTANTANEOUS PEAK STAGE			17.37
INSTANTANEOUS LOW FLOW			.03
ANNUAL RUNOFF (CFSM)	1.35	.85	.01
ANNUAL RUNOFF (INCHES)	18.32	11.54	1.43
10 PERCENT EXCEEDS	37	20	19.49
50 PERCENT EXCEEDS	.81	.76	37
90 PERCENT EXCEEDS	.09	.09	2.2
			.30

e Estimated

PEARL RIVER BASIN

02485700 HANGING MOSS CREEK AT JACKSON, MS

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.76	8.01	8.66	8.58	12.80	8.91	8.93	8.24	8.29	8.15	8.09	8.23
2	7.78	8.60	8.68	10.00	12.66	8.87	8.63	8.21	8.27	8.01	8.01	7.96
3	7.80	8.16	8.74	9.10	12.12	9.56	8.48	8.19	8.27	7.90	7.89	7.91
4	7.80	8.09	8.74	8.78	11.77	8.95	9.82	8.38	8.29	7.85	7.85	8.08
5	7.82	8.07	8.73	8.59	11.87	8.79	9.07	---	8.31	7.80	7.83	8.12
6	7.92	8.11	8.70	8.68	11.55	8.86	8.76	8.67	8.30	7.78	7.84	8.09
7	8.22	8.35	8.70	8.99	9.70	8.70	8.50	8.34	8.29	8.34	7.82	8.19
8	7.98	8.66	8.71	9.56	8.57	8.89	8.38	8.27	8.31	8.84	7.80	8.25
9	7.91	8.59	8.49	9.36	8.53	9.89	8.36	8.28	8.31	8.24	8.30	8.21
10	7.91	8.86	8.66	8.95	8.51	9.01	8.39	8.30	8.30	8.38	8.46	7.95
11	7.92	8.40	10.02	8.73	8.53	8.86	8.34	8.85	8.35	9.01	8.05	7.86
12	7.88	8.43	9.67	8.59	8.86	8.87	8.42	8.87	8.32	8.62	7.95	7.81
13	7.93	8.64	8.96	8.65	8.64	10.09	8.37	8.44	8.30	8.20	7.89	7.79
14	7.95	9.06	8.57	8.72	8.58	9.42	8.48	8.32	9.03	8.14	7.86	7.80
15	7.91	8.56	8.42	8.74	8.54	8.97	8.73	8.25	8.51	8.09	7.86	7.81
16	7.94	8.32	8.38	8.61	8.45	8.70	8.27	8.22	8.16	8.69	7.85	7.79
17	7.95	8.26	8.36	8.58	9.02	8.54	8.21	8.18	8.20	8.64	7.85	7.79
18	8.00	8.27	8.37	8.54	8.99	8.46	8.29	8.47	8.25	8.18	7.85	7.81
19	8.04	8.33	8.97	8.52	8.78	8.40	---	8.25	8.24	8.59	7.84	7.79
20	8.04	8.75	8.56	8.54	8.65	8.37	---	8.19	8.23	8.53	7.85	7.78
21	8.01	8.60	8.44	8.47	8.69	8.46	8.32	8.26	8.23	8.13	7.83	7.76
22	7.98	8.42	8.57	9.47	8.60	8.41	8.29	8.37	8.28	7.95	7.81	7.75
23	7.97	8.41	9.41	9.53	8.53	8.39	8.30	8.42	8.23	7.89	7.84	7.79
24	7.97	8.40	9.71	8.94	8.51	8.55	8.30	8.40	8.25	8.49	7.83	7.77
25	8.03	8.41	8.97	8.78	8.48	9.59	8.29	8.34	9.51	8.45	7.83	7.77
26	8.02	8.41	8.75	8.63	8.49	8.96	8.53	8.50	9.13	8.73	7.82	7.75
27	8.01	8.45	8.62	8.55	9.34	8.62	8.65	8.40	8.42	8.34	7.96	7.74
28	7.99	8.52	9.91	8.56	9.38	8.43	8.35	8.33	8.12	8.29	7.90	7.78
29	7.99	8.63	9.00	10.25	---	8.44	8.33	8.34	8.78	8.00	7.87	9.52
30	8.02	8.64	8.72	13.26	---	8.73	8.28	8.48	8.48	7.93	7.84	8.33
31	8.01	---	8.57	11.57	---	9.35	---	8.33	---	8.04	8.29	---
MEAN	7.95	8.45	8.83	9.12	9.47	8.87	---	---	8.40	8.27	7.92	7.97
MAX	8.22	9.06	10.02	13.26	12.80	10.09	---	---	9.51	9.01	8.46	9.52
MIN	7.76	8.01	8.36	8.47	8.45	8.37	---	---	8.12	7.78	7.80	7.74

LOCATION.--Lat 32°16'53", long 90°10'44", in NW1/4 NE1/4 NE1/4 sec.16, T.5 N., R.1 E., Choctaw Meridian, Rankin County Hydrologic Unit 031800002, on left bank at downstream side of bridge on U.S. Highway 80 at eastern city limits of Jackson, 0.4 mi downstream from Illinois Central and Gulf Railroad bridge, 0.4 mi downstream from Town Creek, 4.2 mi upstream from Richland Creek, and at mile 287.0.

PERIOD OF RECORD.--June 1901 to December 1912 (prior to October 1901 and for 1913 water year, gage heights only), August 1928 to current year. Daily mean gage heights published since October 1971. Gage-height records collected at Woodrow Wilson Bridge, 0.6 mi upstream, 1904 to 1971 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 233.70 ft above sea level. Prior to Dec. 31, 1913, and Aug. 15, 1928 to Sept. 14, 1934, nonrecording gage. Prior to Oct. 1, 1975, at site at Woodrow Wilson Bridge, 0.6 mi upstream, at datum 1.20 ft higher. Since Oct. 1, 1962, supplementary water-stage recorder and concrete control at Jackson waterworks pumping plant, 3.8 mi upstream (channel change). Datum of supplementary gage is 239.40 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. About 48 ft³/s is diverted upstream from station for municipal water supply for City of Jackson, most of which was returned to river and included in discharge records prior to the opening of the City of Jackson Waste Water Treatment Plant at Savannah Street Extension in 1975. Flow regulated since Sept. 27, 1961, by Ross R. Barnett Reservoir, 15 mi upstream. Statistics shown below are for water years 1962 to current year except instantaneous extremes, which are shown for the entire period of record. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--According to information by local residents and from newspaper records, the flood of Apr. 25, 1874, reached a stage of 37 ft and the flood of Dec. 5, 1880, reached a stage of 36 1/2 ft, at former site and datum. The flood of Apr. 21, 1900, reached a stage of 36.7 ft, according to the Alabama and Vicksburg Railroad plans confirmed by local residents.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	276	295	6530	31200	4650	5100	488	246	278	266	224
2	207	404	292	7030	32100	4900	5780	475	245	261	246	194
3	206	303	300	6650	30500	5710	5460	455	247	257	234	191
4	206	288	294	5800	28800	7540	6790	504	244	261	223	238
5	203	281	291	6180	29100	8920	6370	822	245	250	216	218
6	211	285	294	7600	28500	8900	4710	905	242	238	217	225
7	248	289	308	8350	25600	7830	3930	474	237	321	215	223
8	215	401	342	8070	20400	7280	3800	406	241	365	211	218
9	206	402	326	7160	16800	9900	3430	391	235	286	260	260
10	207	637	391	7440	14100	11500	3610	377	241	265	551	213
11	207	423	1990	7900	11400	10900	3430	445	316	346	259	199
12	203	351	4110	6980	8770	9320	2820	578	246	340	231	200
13	199	367	3970	5980	6270	8730	1860	394	230	267	226	200
14	200	594	3890	6130	3920	9900	1110	357	622	265	218	198
15	199	417	2680	6560	2020	11500	4220	337	395	273	218	193
16	197	328	2010	5630	811	12400	4070	318	246	304	209	191
17	199	302	1730	4990	755	12100	2780	308	224	373	196	187
18	200	296	1750	4940	723	10600	2150	350	214	315	195	199
19	214	300	2010	3830	633	9140	1450	316	216	498	195	204
20	206	337	1860	2870	629	8170	930	298	217	374	191	197
21	205	338	1860	2380	643	6880	1030	281	214	272	187	198
22	203	312	1740	3160	641	5840	1320	284	197	247	194	202
23	200	305	1600	6740	651	4940	1710	340	219	241	189	201
24	196	303	3510	9590	667	4210	1170	295	221	512	190	193
25	208	300	4870	9980	682	5340	701	256	984	521	201	198
26	268	300	4710	9870	695	6480	1130	405	1050	375	193	198
27	278	302	3790	9470	942	5610	2060	307	434	341	187	196
28	282	298	5300	7940	1880	4630	1490	265	315	611	191	201
29	281	294	6120	8520	---	4340	803	255	453	303	187	889
30	278	285	5950	19500	---	4350	521	261	408	262	187	311
31	277	---	6610	27800	---	5070	---	289	---	261	203	---
TOTAL	6819	10318	75193	241570	299832	237580	85735	12236	9844	10083	6886	6959
MEAN	220	344	2426	7793	10710	7664	2858	395	328	325	222	232
MAX	282	637	6610	27800	32100	12400	6790	905	1050	611	551	889
MIN	196	276	291	2380	629	4210	521	255	197	238	187	187
CFSM	.07	.11	.76	2.46	3.38	2.42	.90	.12	.10	.10	.07	.07
IN.	.08											

MEAN	986	1997	5846	8770	9166	9448	9237	4748	1502	1092	906	725
MAX	8174	6663	26640	28310	24940	23560	34330	22880	7278	6454	7996	6790
(WY)	1976	1980	1983	1974	1983	1980	1979	1983	1997	1989	1975	1979
MIN	94.7	85.3	271	653	1532	1728	448	280	133	180	197	138
(WY)	1964	1964	1963	1986	1986	1967	1986	1992	1963	1984	1969	1963

ANNUAL TOTAL	1420798		1003055				
ANNUAL MEAN	3893		2748			4513	
HIGHEST ANNUAL MEAN						12000	1983
LOWEST ANNUAL MEAN						942	1963
HIGHEST DAILY MEAN	30400	Jan 24	32100	Feb 2		126000	Apr 17 1979
LOWEST DAILY MEAN	196	Oct 24	187	Aug 21		45	Sep 18 1963
ANNUAL SEVEN-DAY MINIMUM	200	Oct 12	191	Aug 24		63	Sep 17 1963
INSTANTANEOUS PEAK FLOW			32900	Feb 2		128000	Apr 17 1979
INSTANTANEOUS PEAK STAGE			32.73	Feb 2		43.28	Apr 17 1979
ANNUAL RUNOFF (CFSM)	1.23		.87			1.42	
ANNUAL RUNOFF (INCHES)	16.67		11.77			19.34	
10 PERCENT EXCEEDS	13200		7920			13100	
50 PERCENT EXCEEDS	468		351			1280	
90 PERCENT EXCEEDS	250		200			255	

PEARL RIVER BASIN

02486000 PEARL RIVER AT JACKSON, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.68	3.91	3.98	16.22	32.33	13.72	13.82	4.51	4.07	3.94	3.89	3.69
2	3.62	4.38	3.97	17.06	32.54	14.10	15.04	4.49	4.06	3.87	3.81	3.56
3	3.62	4.02	4.00	16.43	32.16	15.46	14.51	4.44	4.07	3.85	3.76	3.54
4	3.62	3.96	3.98	14.90	31.71	18.54	16.89	4.62	4.06	3.87	3.71	3.72
5	3.61	3.93	3.97	15.57	31.78	20.38	16.18	5.64	4.06	3.82	3.68	3.65
6	3.64	3.94	3.98	18.03	31.62	20.26	13.25	5.83	4.05	3.77	3.69	3.68
7	3.79	3.96	4.04	19.12	30.74	18.74	11.82	4.58	4.03	4.10	3.68	3.67
8	3.66	4.36	4.16	18.73	28.83	17.79	11.61	4.37	4.05	4.26	3.66	3.64
9	3.62	4.38	4.08	17.33	27.11	21.12	10.89	4.33	4.02	3.97	3.84	3.82
10	3.62	5.09	4.18	17.78	25.47	22.82	11.28	4.30	4.05	3.89	4.90	3.62
11	3.62	4.45	8.33	18.49	23.34	22.08	10.95	4.56	4.32	4.20	3.86	3.56
12	3.61	4.20	12.76	17.01	20.56	20.23	9.73	5.03	4.07	4.18	3.75	3.56
13	3.59	4.26	12.41	15.22	16.67	19.42	7.65	4.42	4.00	3.89	3.72	3.56
14	3.59	5.02	12.17	15.49	12.47	20.71	5.80	4.31	5.13	3.89	3.69	3.54
15	3.59	4.43	9.64	16.27	9.35	22.36	12.64	4.25	4.62	3.92	3.69	3.52
16	3.58	4.11	8.07	14.59	6.43	23.68	12.46	4.20	4.07	4.03	3.65	3.51
17	3.59	4.01	7.32	13.48	6.18	23.33	9.94	4.18	3.97	4.29	3.60	3.50
18	3.59	3.99	7.28	13.77	6.00	21.39	8.62	4.36	3.93	4.06	3.59	3.55
19	3.65	4.01	7.83	12.12	5.63	19.89	7.00	4.25	3.94	4.73	3.59	3.56
20	3.62	4.14	7.40	10.31	5.52	18.67	5.66	4.20	3.95	4.30	3.56	3.53
21	3.61	4.15	7.32	9.18	5.48	16.67	5.97	4.15	3.94	3.91	3.55	3.53
22	3.60	4.05	6.94	10.11	5.38	14.82	6.74	4.18	3.86	3.81	3.58	3.55
23	3.59	4.02	7.00	16.59	5.32	13.25	7.72	4.39	3.96	3.79	3.55	3.54
24	3.58	4.02	11.13	20.65	5.28	11.95	6.36	4.26	3.96	4.60	3.56	3.50
25	3.62	4.00	13.24	21.11	5.24	14.01	5.08	4.11	5.89	4.78	3.60	3.52
26	3.88	4.00	12.95	21.00	5.19	16.10	6.33	4.60	6.29	4.30	3.56	3.52
27	3.98	4.01	11.21	20.54	5.78	14.57	8.52	4.31	4.51	4.18	3.53	3.51
28	3.93	4.00	13.97	18.72	8.13	12.84	7.21	4.14	4.08	5.09	3.55	3.53
29	3.93	3.98	15.47	20.02	---	12.34	5.45	4.10	4.55	4.03	3.53	5.78
30	3.92	3.94	15.16	28.19	---	12.38	4.61	4.13	4.42	3.87	3.53	3.97
31	3.91	---	16.36	31.43	---	13.73	---	4.24	---	3.87	3.59	---
MEAN	3.68	4.16	8.53	17.27	16.51	17.66	9.66	4.43	4.27	4.10	3.69	3.66
MAX	3.98	5.09	16.36	31.43	32.54	23.68	16.89	5.83	6.29	5.09	4.90	5.78
MIN	3.58	3.91	3.97	9.18	5.19	11.95	4.61	4.10	3.86	3.77	3.53	3.50

PEARL RIVER BASIN

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02487500 STRONG RIVER AT D'LO, MS

LOCATION.--Lat 31°58'40", long 89°53'51", in NW1/4 SE1/4 SW1/4 sec.28, T.2 N., R.4 E., Choctaw Meridian, Simpson County, Hydrologic Unit 03180002, on left bank at downstream side of bridge on old U.S. Highway 49, 460 ft upstream from Illinois Central Railroad bridge, 0.2 mi south of D'Lo, 1,500 ft downstream from Sellers Creek, 1.6 mi upstream from Dabbs Creek, and 2 mi northwest of Mendenhall.

DRAINAGE AREA.--425 mi².

PERIOD OF RECORD.--August 1928 to September 1970; Oct. 1970 to Sept. 1993 (annual peaks only), Oct. 1993 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 697: 1929. WSP 872: Drainage area. WSP 1504: 1932-34, 1938, 1949-50(M). WDR MS-80-1: Drainage Area.

GAGE.--Water-stage recorder. Datum of gage is 257.99 ft above sea level (U. S. Army Corps of Engineers bench mark). Prior to Oct. 19, 1938, nonrecording gage at site 700 ft upstream at datum 5.0 ft higher.

REMARKS.--Estimated daily discharges: Jul. 9-11. Records good except for estimated daily discharges, which are poor. Statistics shown below are for water years 1929 to 1970 and 1994 through the current year, except instantaneous extremes which are shown for the entire period of record. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 31	1330	*8,840	*24.52	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	40	54	192	7210	1120	656	69	101	53	44	26
2	47	41	55	341	4710	1020	579	66	68	48	48	25
3	46	49	56	759	2390	605	429	65	60	47	38	26
4	48	49	56	701	770	605	503	62	53	43	33	28
5	48	48	57	509	579	632	851	64	48	38	31	31
6	49	45	56	269	456	478	681	72	44	34	29	88
7	51	43	56	210	391	373	438	71	41	33	29	64
8	58	43	64	409	346	320	307	65	39	40	28	42
9	58	45	75	558	312	2520	241	62	38	e57	27	69
10	53	73	72	489	302	3710	202	61	37	e51	36	55
11	49	154	107	430	295	2200	175	60	43	e62	38	44
12	48	106	142	321	256	913	156	78	44	68	36	57
13	46	74	173	239	220	1140	138	179	56	55	32	45
14	45	149	246	190	194	3990	126	85	51	44	30	40
15	44	208	155	161	182	3040	412	68	57	40	28	36
16	44	155	110	142	175	2010	851	70	53	40	26	33
17	44	111	89	129	284	939	893	67	53	41	26	29
18	44	90	81	121	610	542	397	60	48	67	26	28
19	48	74	93	115	629	423	204	56	45	55	25	28
20	53	66	104	108	506	356	153	53	41	52	25	27
21	52	63	102	105	358	329	131	50	37	46	25	28
22	45	59	104	170	290	310	118	48	35	107	25	28
23	42	58	112	1800	251	276	104	47	38	87	24	26
24	40	59	364	1740	225	255	94	66	37	55	30	25
25	39	60	472	1150	231	737	87	55	36	48	32	25
26	40	58	535	512	225	2050	83	48	44	95	34	25
27	40	56	318	311	222	1580	87	50	49	62	32	26
28	40	55	295	244	1090	735	92	48	45	53	31	30
29	40	54	397	283	---	441	80	46	49	58	28	144
30	40	54	355	4930	---	359	75	66	54	48	26	113
31	40	---	310	8610	---	566	---	131	---	42	25	---
TOTAL	1430	2239	5265	26248	23709	34574	9343	2088	1444	1669	947	1291
MEAN	46.1	74.6	170	847	847	1115	311	67.4	48.1	53.8	30.5	43.0
MAX	58	208	535	8610	7210	3990	893	179	101	107	48	144
MIN	39	40	54	105	175	255	75	46	35	33	24	25
CFSM	.11	.18	.40	1.99	1.99	2.62	.73	.16	.11	.13	.07	.10
IN.	.13	.20	.46	2.30	2.08	3.03	.82	.18	.13	.15	.08	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1999, BY WATER YEAR (WY)

	MEAN	95.4	304	527	982	1237	1238	1045	510	189	261	126	92.0
MAX	843	2214	3150	3321	2747	2758	3909	2695	1020	2853	508	450	
(WY)	1965	1949	1933	1937	1950	1935	1938	1953	1997	1940	1938	1958	
MIN	17.8	23.7	65.3	63.5	223	175	94.9	36.7	46.2	30.9	29.2	20.3	
(WY)	1964	1937	1934	1934	1957	1955	1963	1963	1960	1937	1943	1954	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1929 - 1999
ANNUAL TOTAL	256542	110247	
ANNUAL MEAN	703	302	547
HIGHEST ANNUAL MEAN			1090
LOWEST ANNUAL MEAN			198
HIGHEST DAILY MEAN	11900	Jan 24	20900
LOWEST DAILY MEAN	38	Sep 10	16
ANNUAL SEVEN-DAY MINIMUM	40	Oct 24	16
INSTANTANEOUS PEAK FLOW			26400
INSTANTANEOUS PEAK STAGE			33.48
ANNUAL RUNOFF (CFSM)	1.65	.71	1.29
ANNUAL RUNOFF (INCHES)	22.45	9.65	17.48
10 PERCENT EXCEEDS	1890	605	1480
50 PERCENT EXCEEDS	112	64	123
90 PERCENT EXCEEDS	46	31	33

e Estimated

02488000 PEARL RIVER AT ROCKPORT, MS

LOCATION.--Lat 31°47'28", long 90°08'33", in NW1/4 sec.31, T.10 N., R.11 E., Washington Meridian, Copiah County, Hydrologic Unit 03180003, on downstream side of bridge on right bank on county road between Rockport and Shivers, approximately 1.0 mi upstream from Sinkler Creek, 2.0 mi south of Rockport, 7.5 mi downstream from Strong River, and 221.7 mi upstream from the mouth.

DRAINAGE AREA.--4,556 mi².

PERIOD OF RECORD.--October 1938 to September 1951, (monthly discharge only prior to June 1939), October 1984 to current year. Daily mean gage heights published since October 1984.

GAGE.--Water-stage recorder. Datum of gage is 180.19 ft above sea level.

REMARKS.--Estimated daily discharges: Oct. 7-9 and Sept. 13. Records good except for estimated daily discharges, which are poor. Flow regulated since September 27, 1961 by Ross R. Barnett Reservoir, about 80 mi upstream. Statistics shown below are for water years 1985 to current year, except instantaneous extremes, which are shown for the entire period of record. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1979, reached a stage of 42.83 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 18,000 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 2	0245	*33,700	*27.90	Mar. 10	1800	18,700	20.65
Feb. 6	2315	30,900	26.97	Mar. 14	1630	22,500	22.76

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	569	597	715	7050	33000	4480	8500	1100	846	902	738	376
2	485	621	706	7570	33600	6640	7930	798	801	946	650	382
3	451	663	698	10200	33300	7700	7910	708	719	806	628	424
4	471	808	697	9590	32700	8490	7900	672	584	729	599	414
5	455	698	698	7910	32000	9630	10700	652	520	686	565	468
6	451	622	707	7290	31200	10800	11000	757	483	658	544	505
7	e650	609	710	7990	30700	11200	8220	1060	479	646	524	771
8	e725	621	711	9160	30100	10400	6140	1130	462	847	519	1260
9	e635	655	736	10200	28900	15400	5460	736	487	1190	520	921
10	491	951	787	9560	26600	18400	4940	592	480	1220	641	578
11	466	1260	811	8920	23300	17800	4770	554	482	1210	623	555
12	458	1550	3230	8900	19100	15800	4660	544	541	1130	804	470
13	454	1180	6060	8650	14500	15300	4030	689	791	1060	743	e478
14	459	1060	5670	7840	10200	22000	2990	898	638	966	621	575
15	449	1820	5300	7130	6530	21100	3620	700	701	783	528	459
16	469	1950	4150	7180	4250	17700	6530	569	1100	741	471	407
17	472	1330	3080	7020	2770	16200	6840	521	894	725	436	394
18	471	984	2410	6400	3080	15200	5130	494	671	795	418	385
19	477	847	2280	5920	3110	13800	3660	473	580	1020	400	379
20	506	775	2630	5600	2800	12000	2710	488	544	914	392	387
21	548	745	2530	4580	2220	10700	1830	462	528	1060	400	385
22	540	755	2300	3740	1910	9230	1390	428	520	1070	388	381
23	491	790	2220	5760	1730	7800	1560	416	534	881	380	377
24	478	772	2530	10300	1610	6600	2110	489	535	792	384	382
25	480	761	4610	11100	1510	7450	2130	627	555	710	410	377
26	483	756	5830	11400	1460	11700	1340	633	641	915	428	378
27	488	748	5830	11000	1450	11500	1250	484	2140	1180	407	379
28	550	738	5120	10800	2500	9250	2260	708	1820	1020	405	401
29	584	732	6150	10100	---	7010	2500	708	1120	1080	396	1470
30	588	724	7110	20100	---	6100	1750	681	889	1190	389	1510
31	600	---	6880	30100	---	7310	---	820	---	916	377	---
TOTAL	15894	27122	93896	289060	416130	364690	141760	20591	22085	28788	15728	16628
MEAN	513	904	3029	9325	14860	11760	4725	664	736	929	507	554
MAX	725	1950	7110	30100	33600	22000	11000	1130	2140	1220	804	1510
MIN	449	597	697	3740	1450	4480	1250	416	462	646	377	376
CFSM	.11	.20	.66	2.05	3.26	2.58	1.04	.15	.16	.20	.11	.12
IN.	.13	.22	.77	2.36	3.40	2.98	1.16	.17	.18	.24	.13	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

	MEAN	1129	3517	6037	11520	15410	12350	9441	6082	3408	1999	1322	869
MAX	2885	6762	12200	32180	38420	24140	30040	31840	11380	7113	3272	2422	
(WY)	1986	1994	1996	1990	1990	1987	1991	1991	1997	1989	1992	1992	
MIN	428	594	848	1424	2741	5841	1215	664	503	598	507	497	
(WY)	1991	1991	1988	1986	1986	1992	1986	1999	1988	1988	1999	1986	

SUMMARY STATISTICS

	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1985 - 1999
ANNUAL TOTAL	2326192	1452372	
ANNUAL MEAN	6373	3979	6124
HIGHEST ANNUAL MEAN			9752
LOWEST ANNUAL MEAN			2418
HIGHEST DAILY MEAN	40000	Jan 25	64500
LOWEST DAILY MEAN	445	Sep 11	319
ANNUAL SEVEN-DAY MINIMUM	461	Oct 11	329
INSTANTANEOUS PEAK FLOW			65000
INSTANTANEOUS PEAK STAGE		27.90	35.66
INSTANTANEOUS LOW FLOW		376	267
ANNUAL RUNOFF (CFSM)	1.40	.87	1.34
ANNUAL RUNOFF (INCHES)	18.99	11.86	18.26
10 PERCENT EXCEEDS	22000	10700	17700
50 PERCENT EXCEEDS	1470	847	2280
90 PERCENT EXCEEDS	520	451	560

e Estimated

PEARL RIVER BASIN

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02488000 PEARL RIVER AT ROCKPORT, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.12	4.91	5.16	12.74	27.66	10.42	13.95	6.40	6.04	5.64	5.37	4.65
2	4.91	4.96	5.14	13.19	27.86	12.41	13.49	5.85	5.94	5.71	5.19	4.67
3	4.82	5.05	5.12	15.22	27.77	13.31	13.48	5.68	5.75	5.42	5.15	4.78
4	4.86	5.35	5.12	14.78	27.58	13.94	13.47	5.61	5.45	5.25	5.09	4.75
5	4.81	5.12	5.12	13.48	27.34	14.80	15.57	5.58	5.28	5.15	5.02	4.88
6	4.79	4.96	5.14	12.97	27.07	15.66	15.83	5.80	5.18	5.07	4.98	4.97
7	---	4.93	5.15	13.54	26.84	15.94	13.72	6.39	5.15	5.03	4.94	5.51
8	---	4.96	5.15	14.45	26.59	15.38	12.00	6.52	5.10	5.41	4.94	6.43
9	---	5.03	5.20	15.22	26.01	18.64	11.39	5.79	5.14	6.05	4.95	5.83
10	4.84	5.61	5.31	14.75	24.89	20.51	10.91	5.49	5.10	6.10	5.23	5.14
11	4.77	6.16	5.37	14.27	23.18	20.15	10.76	5.42	5.09	6.09	5.19	5.09
12	4.74	6.62	8.65	14.25	20.87	18.92	10.66	5.41	5.21	5.96	5.58	4.89
13	4.72	6.01	11.67	14.07	18.11	18.62	10.03	5.73	5.73	5.86	5.46	---
14	4.72	5.81	11.33	13.42	15.18	22.48	8.88	6.16	5.40	5.68	5.21	5.13
15	4.69	7.00	11.00	12.84	12.31	22.00	9.58	5.77	5.51	5.35	5.01	4.86
16	4.72	7.20	9.87	12.88	10.18	20.07	12.40	5.50	6.24	5.27	4.88	4.73
17	4.72	6.27	8.71	12.75	8.54	19.18	12.69	5.40	5.86	5.24	4.80	4.70
18	4.71	5.68	7.91	12.22	8.91	18.55	11.16	5.34	5.40	5.38	4.76	4.68
19	4.71	5.42	7.76	11.79	8.95	17.66	9.69	5.30	5.19	5.83	4.71	4.66
20	4.77	5.28	8.21	11.50	8.58	16.49	8.60	5.35	5.09	5.63	4.69	4.68
21	4.86	5.22	8.09	10.52	7.84	15.58	7.45	5.29	5.03	5.91	4.72	4.68
22	4.83	5.24	7.82	9.65	7.42	14.51	6.79	5.22	5.00	5.93	4.68	4.67
23	4.70	5.31	7.71	11.56	7.17	13.39	7.07	5.20	5.01	5.59	4.66	4.65
24	4.66	5.27	8.12	15.29	6.98	12.39	7.86	5.39	5.00	5.42	4.68	4.67
25	4.66	5.25	10.43	15.89	6.83	13.07	7.90	5.70	5.03	5.26	4.74	4.66
26	4.65	5.24	11.62	16.11	6.76	16.27	6.75	5.70	5.20	5.66	4.79	4.66
27	4.65	5.23	11.62	15.83	6.75	16.13	6.60	5.35	7.61	6.15	4.73	4.66
28	4.80	5.21	10.98	15.64	8.16	14.51	8.09	5.83	7.17	5.88	4.73	4.72
29	4.88	5.19	11.92	15.17	---	12.74	8.43	5.81	6.07	5.99	4.70	6.74
30	4.88	5.18	12.78	21.28	---	11.95	7.42	5.74	5.64	6.19	4.69	6.83
31	4.91	---	12.59	26.56	---	12.98	---	6.01	---	5.71	4.66	---
MEAN	---	5.49	8.25	14.32	16.51	16.09	10.42	5.67	5.52	5.64	4.93	---
MAX	---	7.20	12.78	26.56	27.86	22.48	15.83	6.52	7.61	6.19	5.58	---
MIN	---	4.91	5.12	9.65	6.75	10.42	6.60	5.20	5.00	5.03	4.66	---

PEARL RIVER BASIN

02488500 PEARL RIVER NEAR MONTICELLO, MS

LOCATION.--Lat 31°33'13", long 90°05'16", in SW1/4 sec.23, T.7 N., R.21 W., St. Stephens Meridian, Lawrence County, Hydrologic Unit 03180003, near left bank on downstream side of pier of bridge on U.S. Highway 84, 1.0 mi east of Monticello, 2.5 mi upstream from Halls Creek, 4.1 mi upstream from Silver Creek and at mile 190.8.

DRAINAGE AREA.--4,993 mi².

PERIOD OF RECORD.--October 1938 to current year. Daily mean gage heights published since January 1972. Gage-height records collected in vicinity since 1924, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1504: 1939, 1949.

GAGE.--Water-stage recorder. Datum of gage is 158.66 ft above sea level (levels by U. S. Army Corps of Engineers) Prior to Dec. 12, 1938, nonrecording gage, Dec. 12, 1938, to Jan. 10, 1949, water-stage recorder, and Jan. 11, 1949 to Oct. 16, 1952, nonrecording gage, all at same site and datum.

REMARKS.--Estimated daily discharges: Apr. 6-9 and May 16-25. Records good except for estimated daily discharges, which are poor. Flow regulated since September 27, 1961 by Ross R. Barnett, about 111 mi upstream. Statistics shown below are for water years 1962 to current year, except instantaneous extremes, which are shown for the entire period of record. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1902 reached a stage of about 33 ft, from reports of National Weather Service, discharge, about 100,000 ft³/s, from rating curve extended above 70,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 22,000 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 3	0430	*34,900	*23.94	Mar. 14	0415	32,700	23.33
Mar. 9	2215	22,800	19.64				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	789	655	710	7030	34100	5550	8930	1720	1030	805	788	496
2	768	674	695	8000	34400	6340	8450	1460	900	884	694	483
3	684	700	701	11000	34700	8140	7960	1280	859	785	655	502
4	660	744	728	10700	34700	8840	7910	1160	733	694	633	533
5	659	787	722	8500	34200	9710	9550	1120	666	669	601	576
6	645	699	727	7290	33600	11000	e11600	1080	632	637	580	623
7	815	664	710	7700	33000	11900	e11500	1070	632	618	572	720
8	861	665	721	8950	32400	11500	e8300	1140	634	673	563	1010
9	764	683	747	10400	31900	19600	e5930	1180	612	964	596	1170
10	725	804	786	10100	31200	22500	5170	1070	622	1110	1380	923
11	689	1170	889	9100	29100	21000	4730	969	618	1050	945	710
12	674	1380	1360	9020	25500	19500	4720	945	615	1400	850	653
13	642	1290	4580	8810	20400	23500	4250	923	717	1200	845	576
14	629	1170	5400	7720	14500	31800	3430	932	840	999	702	597
15	623	2650	4960	6830	9220	28700	3030	972	745	858	628	634
16	618	2170	4230	7190	6000	24000	5390	e888	951	746	589	537
17	620	1590	3170	6970	4450	19800	6900	e835	1090	731	573	493
18	617	1160	2450	6040	5620	17500	5650	e819	836	720	567	486
19	621	961	2180	5680	4510	15900	4100	e804	694	885	561	498
20	614	862	2310	5470	3900	13800	3120	e788	629	966	538	491
21	629	807	2510	4420	3290	12000	2340	e814	600	1010	523	476
22	648	780	2290	3690	2760	10400	1860	e799	589	1070	537	473
23	621	811	2200	6570	2480	8690	1780	e768	625	881	519	464
24	584	813	2360	10700	2280	7240	1890	e718	626	812	511	452
25	575	777	3770	11600	2140	6760	2230	e723	607	893	511	447
26	581	743	5450	12000	2040	10700	1900	871	671	810	535	450
27	579	732	5780	11800	2060	12300	1670	749	1230	1150	537	458
28	592	726	5690	11400	5160	10600	1830	707	2050	1080	526	459
29	638	723	6060	10900	---	7990	2530	887	1360	1000	517	865
30	647	735	7140	22300	---	6460	2070	942	938	1120	508	1840
31	651	---	6960	31800	---	7430	---	1050	---	963	502	---
TOTAL	20462	29125	88986	299680	479610	431150	150720	30183	24351	28183	19586	19095
MEAN	660	971	2871	9667	17130	13910	5024	974	812	909	632	636
MAX	861	2650	7140	31800	34700	31800	11600	1720	2050	1400	1380	1840
MIN	575	655	695	3690	2040	5550	1670	707	589	618	502	447
CFSM	.13	.19	.57	1.94	3.43	2.79	1.01	.20	.16	.18	.13	.13
IN.	.15	.22	.66	2.23	3.57	3.21	1.12	.22	.18	.21	.15	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1999, BY WATER YEAR (WY)

	1973	3042	8537	13050	14710	14680	14800	8360	3062	2015	1786	1338
MEAN	1773	3042	8537	13050	14710	14680	14800	8360	3062	2015	1786	1338
MAX	9167	8443	37130	36890	43290	29990	51710	40240	13140	7516	10920	7323
(WY)	1976	1994	1983	1974	1990	1980	1991	1997	1989	1989	1975	1979
MIN	305	356	728	1522	3186	2950	1552	800	650	602	486	482
(WY)	1964	1964	1963	1986	1970	1967	1967	1963	1988	1969	1969	1963

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1962 - 1999

ANNUAL TOTAL	2640091	1621131	7225
ANNUAL MEAN	7233	4441	17210
HIGHEST ANNUAL MEAN			2001
LOWEST ANNUAL MEAN			121000
HIGHEST DAILY MEAN	39900	Jan 27	447
LOWEST DAILY MEAN	575	Oct 25	269
ANNUAL SEVEN-DAY MINIMUM	596	Oct 23	458
INSTANTANEOUS PEAK FLOW			34900
INSTANTANEOUS PEAK STAGE			23.94
INSTANTANEOUS LOW FLOW			445
ANNUAL RUNOFF (CFSM)	1.45	.89	1.45
ANNUAL RUNOFF (INCHES)	19.67	12.08	19.66
10 PERCENT EXCEEDS	24800	11500	20700
50 PERCENT EXCEEDS	1530	964	2590
90 PERCENT EXCEEDS	706	576	671

e Estimated

02488500 PEARL RIVER NEAR MONTICELLO, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.76	4.58	4.69	11.32	23.73	10.20	12.61	6.45	5.48	4.92	4.78	4.13
2	4.72	4.62	4.66	11.99	23.83	10.80	12.30	6.10	5.24	5.06	4.59	4.10
3	4.56	4.67	4.68	13.85	23.91	12.09	11.97	5.82	5.16	4.87	4.50	4.15
4	4.51	4.76	4.73	13.69	23.89	12.55	11.94	5.64	4.91	4.68	4.45	4.22
5	4.51	4.85	4.72	12.33	23.77	13.10	12.99	5.58	4.77	4.62	4.38	4.33
6	4.49	4.67	4.73	11.50	23.60	13.91	---	5.51	4.69	4.55	4.33	4.44
7	4.83	4.60	4.69	11.79	23.42	14.41	---	5.50	4.68	4.50	4.31	4.64
8	4.92	4.60	4.72	12.62	23.27	14.18	---	5.62	4.68	4.61	4.28	5.17
9	4.74	4.64	4.77	13.54	23.10	18.15	---	5.69	4.63	5.17	4.35	5.47
10	4.66	4.87	4.85	13.34	22.88	19.52	9.91	5.52	4.65	5.43	5.76	5.04
11	4.60	5.53	5.04	12.72	22.10	18.84	9.54	5.35	4.63	5.33	5.04	4.63
12	4.57	5.86	5.75	12.67	20.74	18.22	9.54	5.30	4.62	5.87	4.87	4.51
13	4.50	5.72	9.36	12.53	18.60	19.84	9.12	5.27	4.83	5.56	4.86	4.35
14	4.48	5.52	10.08	11.81	15.76	23.06	8.35	5.29	5.07	5.22	4.57	4.40
15	4.47	7.48	9.71	11.17	12.77	21.97	7.94	5.37	4.88	4.96	4.41	4.48
16	4.46	6.92	9.07	11.44	10.54	20.12	10.09	---	5.26	4.75	4.32	4.26
17	4.47	6.16	8.05	11.27	9.27	18.34	11.27	---	5.51	4.71	4.28	4.16
18	4.47	5.52	7.26	10.58	10.25	17.29	10.32	---	5.04	4.68	4.26	4.15
19	4.47	5.17	6.94	10.30	9.33	16.50	9.01	---	4.75	5.00	4.25	4.18
20	4.47	4.99	7.10	10.14	8.78	15.45	8.06	---	4.61	5.15	4.20	4.16
21	4.50	4.89	7.34	9.24	8.17	14.44	7.21	---	4.54	5.22	4.17	4.14
22	4.54	4.83	7.08	8.58	7.62	13.51	6.61	---	4.51	5.32	4.20	4.13
23	4.49	4.89	6.97	10.93	7.30	12.45	6.51	---	4.59	4.99	4.16	4.11
24	4.41	4.90	7.15	13.72	7.06	11.47	6.65	---	4.59	4.85	4.14	4.08
25	4.39	4.83	8.62	14.24	6.89	11.12	7.09	---	4.54	5.00	4.15	4.07
26	4.42	4.76	10.12	14.45	6.76	13.70	6.68	5.22	4.67	4.84	4.21	4.08
27	4.41	4.74	10.38	14.31	6.79	14.64	6.37	4.98	5.62	5.45	4.22	4.10
28	4.44	4.73	10.31	14.10	9.82	13.66	6.57	4.89	6.83	5.33	4.19	4.11
29	4.54	4.72	10.60	13.82	---	11.98	7.46	5.24	5.86	5.19	4.18	4.91
30	4.56	4.74	11.40	19.34	---	10.90	6.91	5.33	5.17	5.38	4.16	6.50
31	4.57	---	11.27	23.06	---	11.59	---	5.51	---	5.11	4.14	---
MEAN	4.55	5.13	7.32	12.79	15.50	15.10	---	---	4.97	5.04	4.41	4.44
MAX	4.92	7.48	11.40	23.06	23.91	23.06	---	---	6.83	5.87	5.76	6.50
MIN	4.39	4.58	4.66	8.58	6.76	10.20	---	---	4.51	4.50	4.14	4.07

02488700 WHITESAND CREEK NEAR OAK VALE, MS

LOCATION.--Lat 31°28'11", long 89°58'25", in NW1/4 SW1/4 sec.24, T.6 N., R.20 W., St. Stephens Meridian, Lawrence County, Hydrologic Unit 03180003, near left bank on downstream side of bridge on State Highway 43, .5 mi upstream from Illinois Central and Gulf Railroad bridge, 2.3 mi north of Oak Vale, and 3.7 mi upstream from mouth.

DRAINAGE AREA.--130 mi².

PERIOD OF RECORD.--September 1965 to current year. Daily mean gage heights published since October 1985.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 182.20 ft above sea level (Mississippi Department of Transportation bench mark).

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 28, 29, 1961, reached a stage of 17.11 ft from floodmark, discharge, 15,900 ft³/s. Maximum stage known since at least 1879, 20 1/4 ft in April 1900, and flood in January 1925 reached a stage of 17.3 ft from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 9	1829	5,230	11.05	Mar. 14	1414	4,580	10.45

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	90	115	117	644	341	211	97	107	86	89	78
2	97	90	111	197	435	245	166	98	95	85	86	77
3	262	92	114	274	374	232	149	96	90	83	84	78
4	250	92	112	143	406	214	140	96	88	87	83	80
5	180	91	112	116	334	199	135	101	86	84	82	90
6	142	91	111	119	294	233	143	102	86	83	82	84
7	138	92	109	129	283	248	161	99	84	82	82	81
8	172	92	109	135	274	200	139	97	82	93	81	88
9	152	93	110	126	373	3510	128	96	82	97	80	99
10	131	98	110	115	662	2080	124	95	80	90	266	86
11	118	131	117	113	373	538	118	96	79	88	182	79
12	109	118	127	113	300	539	113	99	88	110	108	77
13	103	109	122	117	267	1680	110	99	88	109	94	84
14	101	134	113	116	250	3550	112	94	83	93	90	82
15	99	238	107	113	242	1410	150	92	84	92	87	76
16	98	171	104	112	240	558	131	92	88	90	87	73
17	101	144	104	113	260	386	112	92	84	97	89	72
18	100	136	104	112	397	312	106	91	79	93	88	71
19	101	132	120	109	299	264	106	91	76	87	86	71
20	101	126	140	111	248	235	106	89	81	88	85	72
21	100	125	123	110	235	215	106	88	83	96	85	72
22	101	125	114	122	222	200	104	88	84	91	85	72
23	98	124	112	492	215	188	105	88	127	89	85	71
24	100	124	138	233	211	180	105	116	97	110	88	71
25	99	120	145	134	206	203	106	105	90	142	91	71
26	100	119	121	115	205	226	107	91	105	98	85	70
27	100	118	115	112	207	181	106	94	112	92	83	71
28	92	119	197	110	480	162	103	90	97	101	83	71
29	90	118	221	122	---	154	100	98	89	111	83	84
30	90	115	131	1350	---	155	98	171	86	92	80	93
31	90	---	120	1600	---	223	---	145	---	92	78	---
TOTAL	3711	3567	3808	7100	8936	19061	3700	3086	2680	2931	2937	2344
MEAN	120	119	123	229	319	615	123	99.5	89.3	94.5	94.7	78.1
MAX	262	238	221	1600	662	3550	211	171	127	142	266	99
MIN	90	90	104	109	205	154	98	88	76	82	78	70
CFSM	.92	.91	.94	1.76	2.45	4.73	.95	.77	.69	.73	.73	.60
IN.	1.06	1.02	1.09	2.03	2.56	5.45	1.06	.88	.77	.84	.84	.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1999, BY WATER YEAR (WY)

MEAN	124	145	202	300	315	343	330	233	145	132	122	119
MAX	423	503	407	810	746	844	1173	810	289	315	307	279
(WY)	1985	1994	1983	1990	1966	1973	1974	1990	1989	1981	1975	1979
MIN	72.6	78.9	109	116	112	118	104	99.5	89.3	72.8	80.8	74.7
(WY)	1968	1968	1966	1970	1968	1967	1970	1999	1972	1968	1972	1970

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1965 - 1999
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ANNUAL TOTAL	79666		63861			
ANNUAL MEAN	218		175		209	
HIGHEST ANNUAL MEAN					339	1980
LOWEST ANNUAL MEAN					102	1970
HIGHEST DAILY MEAN	3020	Jan 7	3550	Mar 14	16400	Apr 13 1974
LOWEST DAILY MEAN	85	Sep 11	70	Sep 26	65	Jul 6 1986
ANNUAL SEVEN-DAY MINIMUM	88	Sep 6	71	Sep 22	68	Jul 27 1968
INSTANTANEOUS PEAK FLOW			5230	Mar 9	25400	Apr 13 1974
INSTANTANEOUS PEAK STAGE			11.05	Mar 9	18.76	Apr 13 1974
INSTANTANEOUS LOW FLOW			69	Sep 17-20,23-28a	59	Sep 12 1972
ANNUAL RUNOFF (CFSM)	1.68		1.35		1.61	
ANNUAL RUNOFF (INCHES)	22.80		18.27		21.81	
10 PERCENT EXCEEDS	341		250		310	
50 PERCENT EXCEEDS	126		106		131	
90 PERCENT EXCEEDS	95		82		90	

a Occurred part of each day.

PEARL RIVER BASIN

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02488700 WHITESAND CREEK NEAR OAK VALE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.15	4.12	4.22	4.23	5.53	4.91	4.57	4.13	4.18	4.07	4.04	3.96
2	4.15	4.12	4.20	4.49	5.13	4.67	4.42	4.14	4.12	4.07	4.03	3.96
3	4.71	4.13	4.21	4.74	5.00	4.63	4.36	4.13	4.10	4.06	4.02	3.97
4	4.70	4.13	4.20	4.33	5.07	4.58	4.32	4.13	4.09	4.08	4.01	3.98
5	4.48	4.12	4.20	4.22	4.90	4.53	4.30	4.15	4.08	4.06	4.01	4.04
6	4.35	4.12	4.20	4.24	4.81	4.63	4.34	4.16	4.07	4.06	4.00	4.01
7	4.33	4.12	4.19	4.28	4.78	4.68	4.40	4.14	4.07	4.05	4.00	3.99
8	4.46	4.12	4.19	4.30	4.75	4.53	4.32	4.13	4.06	4.11	3.99	4.03
9	4.39	4.12	4.19	4.26	4.96	9.18	4.27	4.13	4.06	4.13	3.99	4.08
10	4.30	4.15	4.20	4.21	5.56	7.61	4.25	4.12	4.04	4.10	4.62	4.02
11	4.25	4.30	4.22	4.21	4.99	5.33	4.23	4.13	4.04	4.08	4.40	3.98
12	4.21	4.24	4.27	4.21	4.82	5.33	4.21	4.14	4.08	4.18	4.11	3.97
13	4.18	4.20	4.25	4.23	4.73	7.04	4.19	4.14	4.09	4.18	4.05	4.00
14	4.17	4.30	4.21	4.22	4.69	9.41	4.20	4.12	4.06	4.11	4.03	4.00
15	4.16	4.66	4.18	4.21	4.66	6.72	4.36	4.11	4.07	4.10	4.01	3.97
16	4.16	4.45	4.17	4.21	4.66	5.37	4.28	4.11	4.09	4.08	4.01	3.96
17	4.17	4.35	4.17	4.21	4.71	5.02	4.20	4.11	4.07	4.11	4.01	3.95
18	4.17	4.31	4.17	4.20	5.05	4.85	4.18	4.10	4.04	4.09	4.01	3.95
19	4.17	4.30	4.24	4.19	4.81	4.73	4.17	4.10	4.03	4.06	4.00	3.95
20	4.17	4.28	4.32	4.20	4.68	4.64	4.18	4.09	4.05	4.07	3.99	3.95
21	4.17	4.27	4.25	4.19	4.64	4.58	4.18	4.09	4.06	4.10	3.99	3.95
22	4.17	4.27	4.21	4.24	4.60	4.53	4.17	4.09	4.07	4.08	3.99	3.95
23	4.16	4.27	4.20	5.22	4.58	4.49	4.17	4.09	4.27	4.06	3.99	3.94
24	4.17	4.27	4.31	4.62	4.57	4.47	4.17	4.22	4.13	4.15	4.01	3.94
25	4.16	4.25	4.34	4.30	4.55	4.54	4.17	4.17	4.10	4.30	4.03	3.95
26	4.17	4.25	4.24	4.22	4.55	4.61	4.18	4.10	4.17	4.11	4.00	3.95
27	4.17	4.23	4.22	4.20	4.55	4.47	4.18	4.12	4.20	4.07	3.99	3.96
28	4.13	4.23	4.49	4.19	5.20	4.41	4.16	4.10	4.13	4.11	3.99	3.96
29	4.12	4.23	4.59	4.24	---	4.38	4.15	4.14	4.09	4.16	3.99	4.03
30	4.12	4.22	4.29	6.62	---	4.38	4.14	4.40	4.08	4.06	3.97	4.07
31	4.12	---	4.24	7.04	---	4.60	---	4.34	---	4.07	3.96	---
MEAN	4.24	4.24	4.24	4.47	4.84	5.22	4.25	4.14	4.09	4.10	4.04	3.98
MAX	4.71	4.66	4.59	7.04	5.56	9.41	4.57	4.40	4.27	4.30	4.62	4.08
MIN	4.12	4.12	4.17	4.19	4.55	4.38	4.14	4.09	4.03	4.05	3.96	3.94

02489000 PEARL RIVER NEAR COLUMBIA, MS

LOCATION.--Lat 31°28'14", long 89°58'25", in NE1/4 NW1/4 sec.7, T.3 N., R.18 W., St. Stephens Meridian, Marion County, Hydrologic Unit 03180004, on downstream side of bridge on U.S. Highway 98, 1.5 mi southwest of Columbia, 2.0 mi downstream from Fernwood, Columbia and Gulf Railroad bridge, 2.2 mi upstream from Silver Creek and at mile 137.8.

DRAINAGE AREA.--5,720 mi².

PERIOD OF RECORD.--August 1928 to September 1954 (monthly discharge only for January to July 1930, published in WSP 1304). January 1972 to current year (gage heights only). Gage height records collected at same site November 1904 to December 1971 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 115.81 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to August 1928, nonrecording gages at various sites and datums in the vicinity maintained by National Weather Service. August 1928 to May 26, 1934, nonrecording gage at site 1.0 mi downstream at datum 0.37 ft higher. May 26, 1934 to September 1954, water-stage recorder at present site and datum.

REMARKS.--Records furnished by National Weather Service.

AVERAGE DISCHARGE.--26 years (1928-54), 7,384 ft³/s, 17.62 in/yr.

EXTREMES FOR PERIOD OF RECORD.--1928-1954: Maximum discharge, 72,600 ft³/s, Apr. 9, 1938, gage height, 26.40 ft, minimum, 705 ft³/s, Oct. 21, 1952, gage height 0.81 ft 1904 to current year: Maximum observed gage height, 27.8 ft, Apr. 22, 1979.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1874 reached a stage of about 31 ft, from information by National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 17.26 ft, Mar. 15, minimum recorded, .28 ft, Nov. 4, 5, but may have been less during period of missing record.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	.59	.86	6.10	15.19	5.03	7.04	2.50	1.65	1.32	1.26	.91
2	.91	.58	.84	6.33	16.08	5.13	7.58	2.04	1.51	1.12	1.06	.90
3	.94	.52	.82	7.32	16.50	5.74	7.25	1.69	1.35	1.13	.98	.90
4	.98	.30	.83	8.46	16.75	6.63	7.01	1.52	1.27	1.11	.96	.89
5	.85	.29	.87	8.11	16.86	7.05	7.00	1.47	1.15	1.04	.96	.89
6	.81	---	.88	7.02	16.80	7.60	8.07	1.44	1.09	1.01	.95	.89
7	.92	---	.88	6.47	16.68	8.29	9.05	1.40	1.06	1.00	.95	.89
8	1.10	---	.87	6.79	16.55	8.65	8.45	1.53	1.06	.99	.93	.98
9	1.13	---	.87	7.49	16.38	9.36	6.58	1.68	1.05	1.00	.93	1.04
10	.97	---	.90	8.11	16.31	13.02	5.63	1.57	1.04	1.15	.93	1.30
11	.89	---	.96	7.85	16.22	13.56	5.18	1.37	1.04	1.38	1.64	1.12
12	.83	---	1.10	7.43	15.64	12.81	4.88	1.30	1.04	1.35	1.39	.94
13	.80	1.51	1.60	7.40	14.53	13.11	4.79	1.28	1.03	1.61	1.06	.92
14	.77	1.56	4.32	7.19	12.63	15.68	4.42	1.25	1.06	1.54	1.04	.91
15	.73	1.65	4.88	6.53	10.05	17.07	3.88	1.38	1.25	1.29	.96	.91
16	.72	2.81	4.64	6.10	7.45	16.65	3.78	1.41	1.17	1.18	.93	.91
17	.71	2.46	4.05	6.29	5.73	14.82	5.40	1.26	1.24	1.07	.93	.90
18	.71	1.94	3.28	5.70	5.24	12.89	6.04	1.21	1.40	1.05	.93	.90
19	.71	1.51	2.73	5.17	5.48	11.72	5.24	1.17	1.20	1.02	.92	.90
20	.71	1.25	2.50	5.33	4.68	10.97	4.24	1.12	1.06	1.05	.92	.72
21	.70	1.09	2.60	5.08	4.16	10.09	3.51	1.10	1.02	1.20	.92	.60
22	.69	1.00	2.71	4.34	3.66	9.26	2.90	1.10	1.01	1.21	.92	.59
23	.72	.96	---	4.51	3.24	8.41	2.42	1.10	1.01	1.29	.92	.58
24	.71	.97	---	6.68	2.94	7.49	2.24	1.21	1.01	1.20	.92	.57
25	.68	.98	2.72	8.26	2.74	6.70	2.44	1.12	1.01	1.19	.92	.56
26	---	.95	3.95	8.60	2.58	6.79	2.68	1.13	1.01	1.19	.92	.56
27	---	.90	5.05	8.73	2.48	6.67	2.37	1.23	1.04	1.16	.91	.55
28	.71	.88	5.35	8.61	2.76	9.17	1.98	1.22	1.39	1.33	.91	.56
29	.69	.86	5.43	8.52	---	8.30	2.32	1.18	2.17	1.36	.91	.64
30	.72	.85	5.71	11.92	---	6.97	2.84	1.45	1.74	1.29	.91	.84
31	.68	---	6.21	13.99	---	6.34	---	1.68	---	1.37	.91	---
MEAN	---	---	---	7.30	10.23	9.81	4.91	1.39	1.20	1.20	.99	.83
MAX	---	---	---	13.99	16.86	17.07	9.05	2.50	2.17	1.61	1.64	1.30
MIN	---	---	---	4.34	2.48	5.03	1.98	1.10	1.01	.99	.91	.55
MED	---	---	---	7.19	11.34	8.67	4.84	1.30	1.06	1.19	.93	.89

LOCATION.--Lat 30°47'35", long 89°49'15", on line between secs. 17 and 18, T. 3 S., R. 14 E., Washington Parish, Hydrologic Unit 031800004, near left bank on downstream side of flow control structure upstream of bridge on State Highway 10, 2.0 mi east of Bogalusa, and 2.0 mi upstream from Bogue Lusa Creek.

GAGE.--Water-stage recorder. Datum of gage is 55.00 ft above sea level (levels by Corps of Engineers). Prior to July 29, 1954, nonrecording gage at same site and datum.

REMARKS.--Records good, except for Oct. 1 to Nov. 20 which were determined using observed daily readings, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 11, 1938, reached a stage of 21.0 ft.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3250	2010	2170	7840	35000	4760	10100	3990	3100	2990	2380	1610
2	2790	2050	2170	8060	37600	6350	10400	3890	3090	2650	2330	1580
3	2560	2010	2280	8750	37300	6970	11100	3540	2940	2410	2120	1610
4	2450	1960	2230	10100	37800	7580	10800	3250	2780	2330	1990	1650
5	2530	1950	2210	12000	38700	8820	10300	3080	2660	2330	1920	1630
6	2750	1890	2230	11900	39500	9690	10100	3000	2620	2240	1860	1630
7	3110	1850	2240	10100	39800	10600	11600	2980	2470	2130	1820	1720
8	3430	1880	2250	8980	39900	11900	13800	2930	2400	2080	1790	2000
9	5840	1870	2300	9160	39400	13800	13700	2930	2460	2160	1770	2250
10	4700	1900	2340	10100	39100	16100	10500	3050	2400	2350	1770	2070
11	3270	1950	2340	11300	38900	21200	8390	3070	2340	2380	1790	2180
12	2730	2070	2410	11200	38200	25800	e7460	2950	2350	2530	2230	2120
13	2520	2310	2650	10500	38000	29400	e6820	2860	2370	2740	2430	1930
14	2380	2510	2910	10300	36500	32600	6290	2790	2340	2910	2110	1810
15	2320	2730	4580	9860	33900	e38100	5990	2730	2380	2880	2000	1740
16	2250	3090	5630	8920	26900	40700	5650	2750	2620	e2680	1910	1680
17	e2200	3270	5610	e8600	17000	41500	5240	2810	2730	e2490	1810	1670
18	2150	3440	5170	8260	10700	40000	6470	2720	2690	e2340	1750	1640
19	2110	3700	4570	7940	8600	36500	7590	2620	2700	2220	1700	1590
20	2060	2920	4110	e7540	8150	31600	6930	2570	2570	2230	1670	1550
21	2010	2620	3860	e7120	7040	26200	5820	2520	2360	2140	1690	1540
22	1950	2540	3800	e6760	6200	21800	5010	2480	2240	2210	1750	1530
23	1870	2440	3840	e6500	5570	18400	4470	2480	2230	2210	1710	1510
24	1880	2350	3780	8200	5090	15200	4020	2640	2260	2350	1670	1500
25	1900	2330	3850	6500	4770	12500	3770	2760	2310	2520	1650	1500
26	1900	2320	4080	11200	4540	10600	3800	2660	2330	2600	1630	1500
27	e1880	2310	4840	12500	4370	10300	4000	2570	2440	2480	2040	1500
28	1850	2250	6060	13100	4410	12700	3870	2590	2400	2580	1940	1500
29	1910	2200	6960	13300	---	14400	3550	2630	2510	2530	1760	1600
30	1920	2170	7190	17000	---	13500	3570	2630	3030	2520	1690	1710
31	1980	---	7300	27400	---	11300	---	2890	---	2420	1640	---
TOTAL	78450	70890	117960	320990	682940	600870	221110	89360	76160	75630	58320	51050
MEAN	2531	2363	3805	10350	24390	19380	7370	2883	2539	2440	1881	1702
MAX	5840	3700	7300</									

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1999, BY WATER YEAR (WY)

MEAN	2928	4253	9911	15680	19940	20740	19280	12330	5643	4586	3754	2886
MAX	10390	16150	40080	48900	56830	46670	67290	56770	22540	26570	16710	9543
(WY)	1976	1958	1983	1974	1990	1987	1980	1991	1983	1940	1975	1979
MIN	1110	1233	1713	2174	4346	4764	3214	1926	1651	1564	1514	1246
(WY)	1964	1964	1955	1956	1970	1967	1963	1963	1963	1969	1954	1954

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1939 - 1999
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ANNUAL TOTAL	4493120		2443730				
ANNUAL MEAN	12310		6695			10070	
HIGHEST ANNUAL MEAN						22560	1983
LOWEST ANNUAL MEAN						3412	1963
HIGHEST DAILY MEAN	56200	Jan 12	41500	Mar 17		127000	Apr 29 1963
ANNUAL SEVEN-DAY MINIMUM	1880	Oct 23	1510	Sep 22		1030	Oct 26 1963
INSTANTANEOUS PEAK FLOW			Unknown	Unknown		129000	Apr 24 1979
INSTANTANEOUS PEAK STAGE			Unknown	Unknown		23.23	Apr 24 1979
INSTANTANEOUS LOW FLOW			1490	Sep 26		1020	Oct 29 1963
INSTANTANEOUS LOW STAGE			6.76	Sep 26, 27		4.84	Oct * 1963
ANNUAL RUNOFF (CFSM)	1.87		1.02			1.53	
ANNUAL RUNOFF (INCHES)	25.43		13.83			20.82	
10 PERCENT EXCEEDS	40600		13800			28200	
50 PERCENT EXCEEDS	3510		2720			4610	
90 PERCENT EXCEEDS	2170		1770			1860	

e Estimated

02490500 BOGUE CHITTO NEAR TYLERTOWN, MS

LOCATION.--Lat 31°10'36", long 90°16'46", in NW1/4 SE1/4 SE1/4 sec.34, T.3 N., R.9 E., Washington Meridian, Pike County, Hydrologic Unit 03180005, near right bank on downstream side of bridge on U.S. Highway 98, 0.2 mi upstream from Bars Branch, 2.2 mi downstream from Topisaw Creek, and 9.2 mi northwest of Tylertown.

DRAINAGE AREA.--492 mi².

PERIOD OF RECORD.--August 1944 to current year.

REVISED RECORDS.--WSP 1504: 1945(P), 1946(M), 1947-51, 1953. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 227.40 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1936 reached a stage about 0.1 ft higher than the flood of Apr. 7, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 1	1130	10,200	17.11	Mar. 14	1230	*16,600	*21.26

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	311	275	304	464	9260	1110	562	275	302	271	338	232
2	309	283	303	522	4860	1010	581	271	268	254	296	231
3	303	284	304	1370	1970	570	501	270	261	247	264	231
4	302	287	304	1470	1500	469	453	270	254	257	252	233
5	300	286	303	877	1310	434	423	274	249	250	245	234
6	308	277	303	540	817	409	444	273	246	242	240	229
7	434	275	304	476	650	396	470	268	241	237	236	269
8	499	276	308	456	561	459	481	263	253	240	236	313
9	449	277	308	460	506	770	435	261	273	239	235	370
10	362	303	314	457	468	1700	392	264	251	262	262	289
11	326	324	342	417	438	1760	369	275	248	262	332	248
12	309	364	345	385	423	1450	350	275	264	261	299	237
13	303	336	383	366	386	4340	338	273	267	253	261	229
14	298	356	468	353	367	14300	333	270	290	244	246	224
15	293	886	413	343	355	11100	333	265	284	239	238	219
16	296	1300	359	338	349	5160	319	262	387	248	235	214
17	296	769	332	331	373	2240	312	259	338	284	233	212
18	296	443	318	325	596	1140	306	259	300	257	231	212
19	291	376	325	319	1210	866	303	256	267	254	229	211
20	288	347	336	318	779	705	302	253	251	262	228	210
21	285	330	359	317	509	610	301	253	241	251	227	209
22	282	322	346	342	429	545	300	251	240	239	228	206
23	277	320	328	977	391	505	297	250	247	240	232	205
24	276	319	350	1120	368	475	295	261	245	325	228	205
25	276	316	445	691	352	484	292	254	270	320	223	205
26	279	314	547	491	342	530	289	256	285	256	266	207
27	276	311	437	423	343	539	290	249	309	430	238	207
28	274	307	463	404	499	478	287	246	654	348	228	205
29	274	306	932	508	---	439	284	268	475	336	223	241
30	274	304	1170	5730	---	434	281	338	312	314	223	254
31	275	---	626	7430	---	482	---	334	---	329	222	---
TOTAL	9621	11473	12679	29020	30411	55909	10923	8296	8772	8451	7674	6991
MEAN	310	382	409	936	1086	1804	364	268	292	273	248	233
MAX	499	1300	1170	7430	9260	14300	581	338	654	430	338	370
MIN	274	275	303	317	342	396	281	246	240	237	222	205
CFSM	.63	.78	.83	1.90	2.21	3.67	.74	.54	.59	.55	.50	.47
IN.	.73	.87	.96	2.19	2.30	4.23	.83	.63	.66	.64	.58	.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1999, BY WATER YEAR (WY)

	MEAN	386	505	877	1294	1434	1381	1314	861	532	462	408	375
MAX	1894	2118	2976	4728	3994	3625	4718	4317	1744	1503	1402	1131	
(WY)	1965	1958	1972	1990	1966	1973	1983	1953	1975	1946	1953	1971	
MIN	184	212	309	279	317	408	303	249	244	233	220	204	
(WY)	1964	1957	1967	1956	1968	1955	1963	1956	1963	1969	1954	1952	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1944 - 1999
ANNUAL TOTAL	319981	200220	
ANNUAL MEAN	877	549	816
HIGHEST ANNUAL MEAN			1301
LOWEST ANNUAL MEAN			394
HIGHEST DAILY MEAN	16800	Jan 7	56900
LOWEST DAILY MEAN	274	Oct 28	177
ANNUAL SEVEN-DAY MINIMUM	275	Oct 26	179
INSTANTANEOUS PEAK FLOW			64200
INSTANTANEOUS PEAK STAGE			34.62
ANNUAL RUNOFF (CFSM)	1.78	21.26	1.66
ANNUAL RUNOFF (INCHES)	24.19	1.11	22.53
10 PERCENT EXCEEDS	1790	652	1590
50 PERCENT EXCEEDS	368	304	400
90 PERCENT EXCEEDS	297	235	249

02492343 EAST HOBOLOCHITTO CREEK NEAR CAESAR, MS

LOCATION.--Lat 30°34'17", long 89°35'41", in sec.34, T.5 S., R.16 W., St. Stephens Meridian, Pearl River County, Hydrologic Unit 03180004, near left bank at downstream side of bridge on County Highway, 3.2 mi west of Caesar, and 3.5 mi downstream from Stanfield Creek.

DRAINAGE AREA.--86.1 mi².

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 62.00 ft above Mississippi Department of Transportation datum.

REMARKS.--Estimated daily discharges: Oct.9-15. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	9.4	22	45	176	89	347	8.9	23	10	52	3.8
2	114	12	20	65	120	80	201	8.6	70	9.2	28	3.9
3	77	15	19	143	82	62	121	8.4	53	8.0	17	4.3
4	59	25	19	142	56	59	91	8.4	29	7.7	12	4.0
5	48	26	19	91	47	51	76	10	17	21	9.1	4.0
6	42	21	21	60	45	58	78	9.9	13	18	7.2	3.9
7	62	17	24	52	39	72	70	9.9	12	14	6.2	5.4
8	67	15	22	63	34	77	50	9.0	16	11	5.7	12
9	e74	13	23	89	31	145	44	8.2	12	12	5.6	15
10	e55	15	31	99	29	453	39	8.2	11	103	5.1	11
11	e45	29	29	68	28	311	34	10	13	50	5.2	8.1
12	e39	38	29	52	26	217	30	9.9	16	27	5.5	6.6
13	e34	40	34	56	24	696	27	10	41	20	5.2	5.7
14	e28	41	49	49	23	2740	25	9.9	144	93	4.7	5.1
15	e25	170	46	35	22	2830	22	11	100	73	4.3	4.4
16	24	349	33	30	21	899	22	9.4	61	36	4.1	3.8
17	20	249	26	27	22	297	20	8.2	125	29	4.0	3.5
18	16	144	22	27	32	205	17	7.5	61	41	3.9	3.3
19	16	83	20	25	65	162	16	7.1	32	26	3.7	3.5
20	15	61	19	25	55	135	15	6.7	21	19	3.5	3.3
21	14	49	19	24	41	117	14	6.4	15	16	5.3	3.0
22	14	41	19	25	33	105	13	6.1	12	17	4.7	2.8
23	13	36	18	111	29	91	13	6.0	10	13	4.0	2.8
24	12	35	20	161	26	75	12	7.0	10	11	4.3	2.8
25	11	33	24	105	24	64	12	6.6	18	11	4.9	2.8
26	11	31	36	68	23	84	12	6.8	23	10	4.4	3.0
27	10	28	37	49	22	90	11	7.0	36	31	4.0	3.1
28	9.9	26	68	40	32	69	10	6.5	29	46	4.2	3.0
29	9.7	24	111	38	---	58	9.9	12	19	27	4.9	3.6
30	9.6	22	98	66	---	60	9.4	15	13	16	4.4	5.1
31	9.5	---	63	157	---	302	---	20	---	66	4.0	---
TOTAL	1171.7	1697.4	1040	2087	1207	10753	1461.3	278.6	1055	891.9	241.1	146.6
MEAN	37.8	56.6	33.5	67.3	43.1	347	48.7	8.99	35.2	28.8	7.78	4.89
MAX	188	349	111	161	176	2830	347	20	144	103	52	15
MIN	9.5	9.4	18	24	21	51	9.4	6.0	10	7.7	3.5	2.8
MED	24	30	24	56	32	91	22	8.4	20	19	4.9	3.8
CFSM	.44	.66	.39	.78	.50	4.03	.57	.10	.41	.33	.09	.06
IN.	.51	.73	.45	.90	.52	4.65	.63	.12	.46	.39	.10	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

	1996	1997	1998	1999	1996	1997	1998	1999	1996	1997	1998	1999
MEAN	26.6	64.2	92.0	512	319	433	128	120	118	90.4	38.8	34.1
MAX	37.8	107	133	1152	572	675	252	316	308	217	97.8	84.8
(WY)	1999	1998	1998	1998	1997	1998	1997	1997	1997	1997	1997	1998
MIN	13.1	28.5	33.5	67.3	43.1	277	48.7	8.99	11.8	25.7	7.78	4.89
(WY)	1998	1997	1999	1999	1999	1997	1999	1999	1998	1998	1999	1999

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1996 - 1999

ANNUAL TOTAL	77733.3	22030.6	164
ANNUAL MEAN	213	60.4	224
HIGHEST ANNUAL MEAN			60.4
LOWEST ANNUAL MEAN			2.8
HIGHEST DAILY MEAN	6250	2830	6250
LOWEST DAILY MEAN	5.3	2.8	2.8
ANNUAL SEVEN-DAY MINIMUM	6.0	2.9	2.9
INSTANTANEOUS PEAK FLOW		4630	8350
INSTANTANEOUS PEAK STAGE		17.40	19.45
INSTANTANEOUS LOW FLOW		2.6	2.6
ANNUAL RUNOFF (CFSM)	2.47	.70	1.91
ANNUAL RUNOFF (INCHES)	33.59	9.52	25.93
10 PERCENT EXCEEDS	397	101	356
50 PERCENT EXCEEDS	35	23	38
90 PERCENT EXCEEDS	7.5	4.8	6.6

e Estimated

PEARL RIVER BASIN

02492360 WEST HOBOLOCHITTO CREEK NEAR MCNEILL, MS

LOCATION.--Lat 30°39'42", long 89°41'10", in NW1/4 sec.34, T.4 S., R.8 W., St. Stephens Meridian, Pearl River County, Hydrologic Unit 03180004, near left bank at downstream side of bridge on County Highway, 0.2 mi downstream from Price Creek, and 3.1 mi west of McNeill.

DRAINAGE AREA.--175 mi².

PERIOD OF RECORD.--July 1965 to September 1968; October 1968 to September 1996 (annual peaks only), October 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 55.64 ft above mean sea level.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1961 reached a stage of 24.96 ft from flood mark. Flood mark of July 1916 reached a stage approximately 5.0 ft higher than the Dec. 1961 flood from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 14	0430	*6,240	*18.67	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	23	35	59	907	176	374	30	57	31	34	16
2	80	31	33	146	339	118	224	29	44	26	26	16
3	57	33	32	281	217	97	154	28	32	24	23	17
4	47	27	31	191	165	94	123	28	26	25	21	16
5	51	26	32	106	133	87	105	31	23	39	19	33
6	45	25	31	75	110	79	93	28	33	60	18	27
7	59	25	31	65	95	82	85	27	27	107	19	22
8	63	24	32	62	86	73	78	26	22	243	19	177
9	51	23	35	70	80	1150	71	26	21	148	18	106
10	42	25	36	69	74	1220	66	28	77	44	20	66
11	37	34	40	63	91	436	60	34	137	31	20	38
12	34	52	40	56	80	709	55	30	46	31	18	28
13	31	41	52	49	71	2270	51	30	129	223	17	23
14	29	66	53	45	65	5620	50	28	66	197	17	20
15	27	447	48	42	60	3620	48	28	43	71	16	18
16	27	266	42	39	57	1100	45	27	51	44	18	18
17	26	144	38	38	62	580	45	24	46	37	18	17
18	26	105	35	36	105	433	44	24	31	105	16	16
19	26	78	33	35	138	340	44	23	24	117	15	15
20	25	63	33	34	96	280	42	22	22	66	17	15
21	25	55	33	33	77	229	39	21	20	44	56	15
22	24	54	34	35	66	190	38	21	146	34	21	14
23	24	50	35	187	60	161	37	24	704	29	18	14
24	23	47	37	214	56	138	36	37	123	28	16	14
25	23	45	40	109	54	137	35	28	76	27	15	13
26	23	43	52	71	53	151	33	24	70	35	15	13
27	23	41	59	55	51	153	33	22	96	45	16	13
28	22	37	85	48	87	124	32	22	82	30	16	14
29	22	36	136	45	---	109	31	22	52	45	15	17
30	23	35	122	244	---	110	31	26	38	40	14	18
31	23	---	79	1310	---	389	---	58	---	52	16	---
TOTAL	1185	2001	1454	3912	3535	20455	2202	856	2364	2078	607	849
MEAN	38.2	66.7	46.9	126	126	660	73.4	27.6	78.8	67.0	19.6	28.3
MAX	147	447	136	1310	907	5620	374	58	704	243	56	177
MIN	22	23	31	33	51	73	31	21	20	24	14	13
MED	27	41	36	62	80	176	46	27	46	44	18	17
CFSM	.22	.38	.27	.72	.72	3.77	.42	.16	.45	.38	.11	.16
IN.	.25	.43	.31	.83	.75	4.35	.47	.18	.50	.44	.13	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1999, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999		
MEAN	45.1	68.5	197	647	673	545	259	194	153	142	93.8	62.2																									
MAX	85.9	170	546	1920	1792	1231	474	465	635	451	159	121																									
(WY)	1997	1998	1968	1998	1966	1998	1997	1997	1997	1997	1968	1965																									
MIN	32.7	33.9	46.9	126	122	91.6	73.4	27.6	32.8	46.1	19.6	28.3																									
(WY)	1998	1997	1999	1999	1968	1967	1999	1999	1998	1998	1999	1999																									

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1965 - 1999

ANNUAL TOTAL	135504	41498	254
ANNUAL MEAN	371	114	390
HIGHEST ANNUAL MEAN			114
LOWEST ANNUAL MEAN			114
HIGHEST DAILY MEAN	8790	Mar 8	8790
LOWEST DAILY MEAN	19	Sep 9	13
ANNUAL SEVEN-DAY MINIMUM	20	Sep 3	14
INSTANTANEOUS PEAK FLOW			6240
INSTANTANEOUS PEAK STAGE			18.67
ANNUAL RUNOFF (CFSM)	2.12	.65	23.43
ANNUAL RUNOFF (INCHES)	28.80	8.82	1.45
10 PERCENT EXCEEDS	991	157	518
50 PERCENT EXCEEDS	48	39	63
90 PERCENT EXCEEDS	23	18	26

TENNESSEE RIVER BASIN

03592718 LITTLE YELLOW CREEK EAST NEAR BURNSVILLE, MS

LOCATION.--Lat 34°50'10", long 88°17'14", in NW1/4 SE1/4 sec.7, T.3 S., R.10 E., Chickasaw Meridian, Tishomingo County, Hydrologic Unit 06030005, on right bank about 70 ft downstream of bridge on county road 0.2 mi northeast of Walker Siding, 2.0 mi east of Burnsville, 0.1 mi north of railroad and 0.25 mi upstream of confluence of Tenn-Tom Waterway.

DRAINAGE AREA.--24.7 mi², Tennessee Valley Authority.

PERIOD OF RECORD.--May 1973 to current year.

REVISED RECORDS.--WDR MS-78-1: 1973(M), 1976(M).

GAGE.--Water-stage recorder. Datum of gage is 429.51 ft above Mississippi Department of Transportation datum.

REMARKS.--Estimated daily discharges: Jan. 24-26, Feb. 26 - Mar. 3, 13-18, and Jul. 27 - Sept 18. Records fair except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 3,180 ft³/s, gage height, 19.12 ft was measured Mar. 16, 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 23	0445	*2,510	*18.13	May 6	0415	954	14.64
Mar. 13	----	unknown	unknown				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	9.0	9.9	33	90	e52	52	29	16	7.9	e4.5	e2.9
2	6.0	11	9.9	187	59	e55	40	26	13	6.8	e4.4	e2.8
3	67	12	10	131	47	e135	37	25	9.9	6.0	e4.3	e2.8
4	19	10	10	50	41	73	107	23	19	5.2	e4.1	e2.8
5	12	10	11	36	36	50	54	59	12	4.6	e4.1	e2.7
6	9.3	10	11	36	35	138	44	430	8.4	4.4	e4.0	e2.7
7	11	10	15	38	48	65	36	76	7.2	4.8	e4.0	e2.7
8	11	12	20	139	40	48	34	36	6.5	4.7	e3.9	e2.6
9	9.7	12	17	312	35	122	32	27	6.1	4.4	e3.9	e2.6
10	8.8	17	19	97	57	60	29	26	5.8	7.1	e3.8	e2.6
11	8.6	17	41	54	40	50	27	22	5.9	47	e3.8	e2.5
12	8.3	12	331	44	87	42	24	20	5.7	18	e3.7	e2.5
13	8.3	11	176	68	46	e580	24	38	6.0	11	e3.7	e2.5
14	8.2	12	49	251	37	e245	24	22	6.1	8.4	e3.6	e2.5
15	8.3	14	32	95	33	e105	56	19	6.0	7.7	e3.6	e2.6
16	8.4	12	28	55	32	e75	32	18	5.8	6.9	e3.5	e2.6
17	8.7	11	26	45	50	e60	27	16	6.6	6.4	e3.5	e2.6
18	9.6	10	24	118	39	e52	26	20	7.2	6.1	e3.4	e2.7
19	9.8	9.6	33	54	33	44	25	18	7.2	5.8	e3.4	3.0
20	9.9	9.6	30	43	30	47	24	15	7.2	5.7	e3.3	3.3
21	9.9	9.8	27	39	28	53	23	14	7.1	5.6	e3.3	3.5
22	8.9	9.6	28	485	26	39	22	17	7.3	5.3	e3.2	3.4
23	9.2	9.6	30	1380	26	36	22	15	9.3	5.3	e3.2	3.6
24	9.8	9.7	67	e145	26	39	35	15	40	5.2	e3.2	3.7
25	9.8	9.8	35	e85	26	35	46	13	14	5.4	e3.1	3.7
26	9.8	9.6	49	e56	e26	32	201	14	10	5.8	e3.1	3.7
27	9.7	9.6	61	48	e50	31	126	14	29	e5.4	e3.1	3.6
28	9.8	9.7	186	44	e68	30	50	12	13	e5.2	e3.0	3.7
29	8.9	9.8	97	71	---	43	37	11	11	e5.0	e3.0	3.8
30	8.5	10	47	150	---	37	36	13	8.8	e4.8	e3.0	4.2
31	8.6	---	37	134	---	80	---	15	---	e4.6	e2.9	---
TOTAL	351.0	328.4	1566.8	4523	1191	2553	1352	1118	317.1	236.5	110.6	90.9
MEAN	11.3	10.9	50.5	146	42.5	82.4	45.1	36.1	10.6	7.63	3.57	3.03
MAX	67	17	331	1380	90	580	201	430	40	47	4.5	4.2
MIN	6.0	9.0	9.9	33	26	30	22	11	5.7	4.4	2.9	2.5
MED	9.3	10	30	68	38	52	34	19	7.2	5.6	3.5	2.8
CFSM	.46	.44	2.05	5.91	1.72	3.33	1.82	1.46	.43	.31	.14	.12
IN.	.53	.49	2.36	6.81	1.79	3.85	2.04	1.68	.48	.36	.17	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1999, BY WATER YEAR (WY)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	15.4	43.6	66.3	73.2	68.1	77.0	60.9	54.7	25.5	13.9	11.3	12.3															
MAX	40.6	146	301	246	185	246	164	281	103	55.7	67.3	67.7															
(WY)	1976	1978	1983	1974	1990	1980	1991	1991	1989	1994	1992	1979															
MIN	5.09	10.9	14.8	13.3	24.9	28.8	11.4	6.90	3.88	4.76	3.50	3.03															
(WY)	1988	1999	1981	1986	1978	1988	1986	1988	1988	1988	1988	1999															

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1973 - 1999
ANNUAL TOTAL	16767.9	13738.3	
ANNUAL MEAN	45.9	37.6	43.4
HIGHEST ANNUAL MEAN			79.2
LOWEST ANNUAL MEAN			18.7
HIGHEST DAILY MEAN	1300	May 7	4910
LOWEST DAILY MEAN	4.7	Sep 2	1.5
ANNUAL SEVEN-DAY MINIMUM	4.8	Sep 1	2.5
INSTANTANEOUS PEAK FLOW			2510
INSTANTANEOUS PEAK STAGE			18.13
INSTANTANEOUS LOW FLOW			2.3a
ANNUAL RUNOFF (CFSM)	1.86	1.52	1.76
ANNUAL RUNOFF (INCHES)	25.25	20.69	23.88
10 PERCENT EXCEEDS	92	68	76
50 PERCENT EXCEEDS	18	14	19
90 PERCENT EXCEEDS	6.1	3.5	5.3

e Estimated

a Observed, but may have been less during period of estimated record.

LOWER MISSISSIPPI RIVER BASIN

YAZOO RIVER BASIN

07268000 LITTLE TALLAHATCHIE RIVER AT ETTA, MS

LOCATION.--Lat 34°28'58", long 89°13'18", in SW1/4 SW1/4 sec.8, T.7 S., R.1 E., Chickasaw Meridian, Union County, Hydrologic Unit 08030201, on right bank at downstream side of bridge on State Highway 30, 0.8 mi northeast of Etta, 3.8 mi upstream from Puskus Creek, 5.0 mi downstream from Locks Creek, 12.3 mi west of New Albany, and 55.0 mi upstream from head of Panola-Quitman Floodway.

DRAINAGE AREA.--526 mi².

PERIOD OF RECORD.--September 1938 to current year. November 1936 to May 1937 (gage heights and discharge measurements only) in reports of U. S. Army Corps of Engineers, Vicksburg district. Prior to October 1971 published as Tallahatchie River at Etta.

REVISED RECORDS.--WSP 897: Drainage area. WSP 1211: 1948, 1949(M).

GAGE.--Water-stage recorder. Datum of gage is 273.48 ft above sea level (levels by U. S. Army Corps of Engineers). Nov. 23, 1936 to May 31, 1937, nonrecording gage at same site at datum 5.33 ft higher. Sept. 24, 1938 to Mar. 16, 1939, nonrecording gage, Mar. 17, 1939 to Aug. 25, 1952, water-stage recorder, and Aug. 26, 1952 to June 22, 1953, nonrecording gage, all at same site. Sept. 24, 1938 to Sept. 30, 1952, at datum 5.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corp of Engineers satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 23	1645	24,200	26.48	Jun. 25	1415	15,800	25.16
Mar. 14	0915	*24,800	*26.57				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	24	35	316	3910	776	859	424	308	451	38	23
2	31	24	35	2390	1580	1140	716	351	191	334	36	23
3	46	24	35	2470	999	6890	650	303	136	262	34	23
4	74	24	34	661	835	2540	4620	278	117	226	32	24
5	46	24	35	383	677	875	1980	527	104	196	32	25
6	44	25	36	348	624	4850	2490	9900	91	167	29	40
7	44	25	46	324	775	2290	1140	4060	81	148	29	27
8	49	28	108	1520	698	945	803	1170	77	426	29	24
9	41	38	119	7030	561	2770	697	649	74	186	37	23
10	35	44	74	2800	1520	1280	600	522	69	236	37	22
11	33	83	304	907	983	922	540	452	71	344	31	21
12	33	46	4200	613	744	762	444	420	270	239	29	21
13	32	38	4020	570	591	10100	409	513	508	149	27	22
14	30	40	765	2720	494	19900	403	407	272	118	26	21
15	30	64	361	998	440	8140	1050	334	216	110	25	21
16	31	51	262	586	412	2510	633	299	133	93	25	20
17	30	41	203	444	559	1470	459	268	106	83	25	20
18	28	32	153	923	591	1230	399	251	90	75	25	20
19	28	29	164	556	467	1030	359	230	81	74	24	20
20	29	35	220	383	396	1140	322	204	78	68	20	21
21	27	49	163	316	356	1570	262	184	76	63	21	22
22	26	41	201	3030	341	1040	227	192	77	62	20	21
23	25	36	230	18900	341	875	208	188	264	61	22	21
24	25	35	1030	10200	326	699	1900	168	4600	56	22	20
25	26	33	492	2480	289	648	2690	145	13500	53	26	20
26	26	33	451	999	285	601	4320	152	6840	55	30	20
27	26	33	717	764	507	551	3820	160	3920	62	27	19
28	26	31	4160	743	2960	533	1250	136	1220	69	26	19
29	25	31	1980	3040	---	1610	687	120	708	51	25	21
30	24	34	635	5600	---	1190	536	131	582	43	25	23
31	24	---	411	7550	---	879	---	147	---	41	23	---
TOTAL	1024	1095	21679	80564	23261	81756	35473	23285	34860	4601	857	667
MEAN	33.0	36.5	699	2599	831	2637	1182	751	1162	148	27.6	22.2
MAX	74	83	4200	18900	3910	19900	4620	9900	13500	451	38	40
MIN	24	24	34	316	285	533	208	120	69	41	20	19
CFSM	.06	.07	1.33	4.94	1.58	5.01	2.25	1.43	2.21	.28	.05	.04
IN.	.07	.08	1.53	5.70	1.65	5.78	2.51	1.65	2.47	.33	.06	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1999, BY WATER YEAR (WY)

MEAN	133	694	1223	1514	1699	1838	1396	909	577	307	170	177
MAX	863	3877	6915	5745	5856	6449	4491	4399	3673	1974	1446	1930
(WY)	1983	1958	1983	1974	1948	1973	1983	1983	1997	1989	1967	1958
MIN	9.37	18.4	56.9	65.5	178	230	120	107	31.4	37.2	13.2	13.2
(WY)	1944	1957	1939	1963	1963	1954	1986	1943	1988	1988	1954	1954

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1938 - 1999

ANNUAL TOTAL	271834		309122			
ANNUAL MEAN	745		847		882	
HIGHEST ANNUAL MEAN					1945	1983
LOWEST ANNUAL MEAN					289	1981
HIGHEST DAILY MEAN	12900	Apr 29	19900	Mar 14	53800	Mar 22 1955
LOWEST DAILY MEAN	24	Oct 30	19	Sep 27	4.1	Oct 3 1938
ANNUAL SEVEN-DAY MINIMUM	24	Oct 30	20	Sep 22	4.3	Oct 3 1938
INSTANTANEOUS PEAK FLOW			24800	Mar 14	85200	May 19 1983
INSTANTANEOUS PEAK STAGE			26.57	Mar 14	29.32	Mar 22 1955
INSTANTANEOUS LOW FLOW			19	Aug 22a	4.1	Oct 3 1938
ANNUAL RUNOFF (CFSM)	1.42		1.61		1.68	
ANNUAL RUNOFF (INCHES)	19.22		21.86		22.79	
10 PERCENT EXCEEDS	1730		2330		1870	
50 PERCENT EXCEEDS	164		188		196	
90 PERCENT EXCEEDS	30		24		26	

a Also occurred Sept. 17, 18, 26-29.

YAZOO RIVER BASIN

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07273100 HOTOPHA CREEK NEAR BATESVILLE, MS

LOCATION.--Lat 34°21'51", long 89°52'33", in NW1/4 NW1/4 sec.30, T.8 S., R.6 W., Chickasaw Meridian, Panola County, Hydrologic Unit 08030201, on right bank about 150 ft downstream of bridge on State Highway 35, 1.2 mi upstream from mouth, 3.6 mi downstream from Harris Creek, and 4.4 mi northeast of Batesville.

DRAINAGE AREA.--35.1 mi².

PERIOD OF RECORD.--March 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 195.45 ft above sea level.

REMARKS.--Estimated daily discharges: Jan. 10,11,14-20, Apr. 27 - May 4, Jul. 28,29 and Aug. 9-25. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jun. 27	1315	*3,730	*12.73				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	4.6	7.9	17	117	24	30	e44	9.1	27	24	20
2	5.5	4.8	7.7	355	74	89	24	e40	9.0	21	24	20
3	6.0	4.8	7.8	162	60	85	34	e37	9.0	19	24	20
4	6.1	4.7	7.9	82	51	33	655	e70	8.4	19	24	19
5	5.8	4.5	7.9	87	38	30	147	239	9.9	18	24	19
6	5.7	4.6	8.0	63	36	353	663	369	8.0	18	25	18
7	6.5	4.9	19	63	50	61	122	60	7.8	19	24	18
8	7.1	6.4	41	158	39	47	59	35	7.1	19	25	17
9	5.9	6.8	14	240	35	168	44	25	5.4	30	e35	16
10	5.3	7.5	21	e165	121	47	33	19	8.9	46	e45	16
11	5.2	7.7	30	e110	53	35	27	16	8.2	76	e21	15
12	5.2	6.7	123	71	62	29	23	15	8.2	68	e20	15
13	5.2	6.2	31	91	40	1500	22	13	18	35	e20	15
14	5.0	6.8	16	e92	33	456	31	9.3	15	25	e19	14
15	4.8	7.6	12	e68	30	149	144	8.9	11	24	e19	14
16	5.0	7.1	11	e62	29	75	33	12	10	23	e20	13
17	4.9	6.9	10	e110	32	41	26	13	9.8	23	e20	13
18	4.9	6.6	9.7	e350	29	32	23	12	9.6	23	e21	12
19	4.8	6.8	13	e90	29	29	22	11	9.9	23	e21	12
20	4.9	9.9	13	e64	26	44	21	10	10	23	e21	12
21	4.8	8.4	11	71	24	37	20	13	10	23	e22	12
22	4.7	7.3	16	921	22	30	19	13	11	24	e22	12
23	4.4	7.0	18	449	22	26	18	10	18	23	e22	11
24	4.8	7.1	35	194	21	22	18	10	54	23	e130	11
25	4.7	7.4	18	97	22	19	20	9.3	81	24	e70	11
26	4.8	7.4	21	63	21	17	46	9.8	107	24	27	11
27	4.8	6.9	25	53	23	17	e350	9.4	700	24	26	11
28	4.7	7.2	215	64	33	17	e220	9.4	103	e24	24	10
29	5.2	7.5	37	968	---	24	e100	8.9	47	e24	23	13
30	4.9	8.0	21	585	---	22	e48	8.7	214	24	22	9.8
31	5.1	---	17	304	---	32	---	9.1	---	24	21	---
TOTAL	162.5	200.1	844.9	6269	1172	3590	3042	1168.8	1537.3	840	885	429.8
MEAN	5.24	6.67	27.3	202	41.9	116	101	37.7	51.2	27.1	28.5	14.3
MAX	7.1	9.9	215	968	121	1500	663	369	700	76	130	20
MIN	4.4	4.5	7.7	17	21	17	18	8.7	5.4	18	19	9.8
CFSM	.15	.19	.78	5.76	1.19	3.30	2.89	1.07	1.46	.77	.81	.41
IN.	.17	.21	.90	6.64	1.24	3.80	3.22	1.24	1.63	.89	.94	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1999, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	12.5	38.5	81.7	102	131	111	75.3	37.1	43.5	23.8	16.4	13.4		
MAX	23.9	97.4	242	224	367	148	376	103	95.9	106	38.5	35.8		
(WY)	1997	1992	1992	1989	1991	1991	1991	1991	1997	1989	1993	1997		
MIN	3.59	6.67	27.3	29.9	34.4	34.1	10.3	8.11	4.65	5.89	6.95	4.11		
(WY)	1988	1999	1999	1987	1993	1993	1986	1988	1988	1986	1990	1986		

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1986 - 1999

ANNUAL TOTAL	18286.4	20141.4	
ANNUAL MEAN	50.1	55.2	
HIGHEST ANNUAL MEAN			57.3
LOWEST ANNUAL MEAN			105
HIGHEST DAILY MEAN	884	1500	30.4
LOWEST DAILY MEAN	4.4	4.4	2.2
ANNUAL SEVEN-DAY MINIMUM	4.7	4.7	2.7
INSTANTANEOUS PEAK FLOW		3730	10400
INSTANTANEOUS PEAK STAGE		12.73	16.83
INSTANTANEOUS LOW FLOW		4.2	2.1
ANNUAL RUNOFF (CFSM)	1.43	1.57	1.63
ANNUAL RUNOFF (INCHES)	19.38	21.35	22.20
10 PERCENT EXCEEDS	101	105	110
50 PERCENT EXCEEDS	15	21	16
90 PERCENT EXCEEDS	5.9	6.1	5.9

e Estimated

07274000 YOCONA RIVER NEAR OXFORD, MS

LOCATION.--Lat 34°16'24", long 89°31'07", in SE1/4 NW1/4 sec.28, T.9 S., R.3 W., Chickasaw Meridian, Lafayette County, Hydrologic Unit 08030203, near left bank on downstream end of pier cap of bridge on State Highway 7, 1.5 mi downstream from Burney Branch, 6 mi south of Oxford, and at mile 42.3.

DRAINAGE AREA.--262 mi².

PERIOD OF RECORD.--October 1951 to current year. May 1946 to September 1951 in reports of U. S. Army Corps of Engineers, Vicksburg district.

REVISED RECORDS.--WDR MS-84-1:1978.

GAGE.--Water-stage recorder. Datum of gage is 267.20 ft above sea level. Prior to Jan. 1, 1972, at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Jan. 2, 13, 14, 17-20. Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 13	1445	*6,610	*20.60				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	19	32	338	1910	668	286	426	364	173	38	20
2	19	19	32	e940	1180	828	250	285	121	125	29	18
3	30	19	40	895	778	2070	235	223	89	97	26	18
4	23	20	42	657	554	1500	1790	187	73	81	25	18
5	33	20	33	472	414	974	960	452	64	69	24	17
6	41	21	32	304	349	1970	1820	2130	56	62	23	17
7	41	22	57	265	352	1310	1050	995	51	57	22	17
8	34	35	158	538	319	973	865	753	47	91	22	19
9	33	30	81	1990	412	1090	572	390	44	145	24	53
10	28	49	102	1220	1320	832	387	247	40	141	27	26
11	27	43	154	1020	768	719	304	198	37	303	23	21
12	26	35	1600	657	665	501	246	179	50	147	20	20
13	25	32	963	e461	458	4290	210	168	50	102	19	19
14	25	41	869	e660	331	3620	196	142	62	78	19	19
15	23	43	680	591	276	2170	588	125	47	65	19	19
16	22	38	359	536	248	1320	399	112	40	55	19	18
17	21	35	211	e390	290	876	277	101	38	50	20	18
18	20	33	159	e620	301	652	214	94	32	45	23	18
19	20	30	150	e450	276	491	187	86	30	43	17	17
20	21	47	139	e340	239	473	167	78	29	40	15	18
21	21	41	127	255	210	507	151	102	28	56	15	18
22	21	38	144	1780	192	409	135	109	26	71	15	22
23	21	36	163	3510	184	338	123	80	51	43	15	20
24	21	34	323	2500	174	303	139	72	251	37	208	19
25	21	32	292	1460	178	274	743	64	600	38	137	18
26	21	31	253	879	199	241	1630	63	513	66	53	18
27	21	31	262	643	257	230	2520	62	719	95	34	17
28	20	30	1470	522	768	220	1710	57	640	49	27	16
29	20	30	925	1340	---	280	1020	54	393	41	23	40
30	20	30	879	2120	---	285	649	70	306	37	21	25
31	20	---	557	3010	---	295	---	128	---	35	22	---
TOTAL	756	964	11288	31363	13602	30709	19823	8232	4891	2537	1024	623
MEAN	24.4	32.1	364	1012	486	991	661	266	163	81.8	33.0	20.8
MAX	41	49	1600	3510	1910	4290	2520	2130	719	303	208	53
MIN	17	19	32	255	174	220	123	54	26	35	15	16
CFSM	.09	.12	1.39	3.86	1.85	3.78	2.52	1.01	.62	.31	.13	.08
IN.	.11	.14	1.60	4.45	1.93	4.36	2.81	1.17	.69	.36	.15	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1999, BY WATER YEAR (WY)

	MEAN	75.9	282	595	613	695	801	719	451	264	130	87.2	103
MAX	424	2145	3396	2086	2204	2558	2545	2055	1632	752	487	1239	
(WY)	1983	1958	1983	1974	1991	1973	1983	1997	1994	1982	1958		
MIN	12.0	12.8	37.7	44.2	112	95.5	84.0	52.7	19.1	16.6	8.20	7.15	
(WY)	1957	1957	1956	1972	1954	1986	1965	1988	1960	1954	1956		

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1952 - 1999

ANNUAL TOTAL	127584	125812	400
ANNUAL MEAN	350	345	877
HIGHEST ANNUAL MEAN			123
LOWEST ANNUAL MEAN			25600
HIGHEST DAILY MEAN	5210	4290	5.1
LOWEST DAILY MEAN	17	15	5.7
ANNUAL SEVEN-DAY MINIMUM	18	17	44100
INSTANTANEOUS PEAK FLOW		6610	28.72
INSTANTANEOUS PEAK STAGE		20.60	4.4
INSTANTANEOUS LOW FLOW		15	1.53
ANNUAL RUNOFF (CFSM)	1.33	1.32	20.73
ANNUAL RUNOFF (INCHES)	18.11	17.86	996
10 PERCENT EXCEEDS	954	961	102
50 PERCENT EXCEEDS	132	95	18
90 PERCENT EXCEEDS	23	20	

e Estimated

a Also occurred on Sept. 28.

07274251 TOWN CREEK AT WATER VALLEY, MS

LOCATION.--Lat 34°08'52", long 89°37'51". in NE1/4 NE1/4 sec.8, T.11 S., R.4 W., Chickasaw Meridian, Yalobusha County, Hydrologic Unit 08030203, 30 feet upstream of triple box culvert on right bank, 0.3 mi south of the intersection of Mississippi State Highways 7 and 315, on Mississippi State Highway 7 in Water Valley.

DRAINAGE AREA.--3.97 mi², revised.

PERIOD OF RECORD.--January 1985 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and culvert control. Datum of gage is 276.00 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Apr. 24	1715	*1,000	*7.54	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.9	3.0	8.0	8.5	2.8	4.8	2.6	3.1	2.6	4.2	2.9
2	1.9	3.1	3.0	24	5.3	38	5.0	2.6	2.4	2.6	5.0	3.1
3	2.3	2.8	3.0	4.0	4.4	9.9	18	2.5	2.3	2.9	7.1	3.4
4	1.9	2.5	3.1	3.3	3.6	2.6	33	2.8	2.3	3.2	3.6	3.3
5	2.0	1.9	3.3	3.2	3.2	4.2	19	39	2.3	3.5	3.9	3.6
6	2.1	1.9	4.1	3.2	3.4	30	99	15	2.3	4.0	4.0	3.9
7	4.1	2.4	5.4	3.4	3.7	3.6	9.2	3.3	2.3	4.8	4.2	4.0
8	2.0	2.9	6.1	29	3.4	8.2	5.2	2.8	2.3	4.9	4.3	3.9
9	2.1	1.9	2.8	13	3.6	7.0	4.2	2.6	2.3	5.1	5.1	3.8
10	2.1	7.1	9.4	3.9	3.6	3.4	3.5	2.6	2.1	7.8	4.8	3.6
11	2.1	1.8	8.0	4.1	4.2	3.0	3.3	2.6	4.2	25	4.6	3.7
12	2.2	1.9	49	3.9	4.2	3.4	3.1	2.6	1.8	2.5	4.1	3.6
13	2.3	2.0	2.9	7.1	4.2	118	3.0	2.6	1.9	2.4	4.0	3.9
14	2.2	3.9	2.6	4.0	4.3	28	9.3	2.6	1.9	2.6	4.0	3.9
15	2.3	2.1	2.7	3.6	4.9	8.4	6.3	2.7	1.9	2.8	4.0	3.6
16	2.4	2.1	2.7	3.6	5.3	6.0	2.8	3.0	1.9	3.1	3.6	3.6
17	2.6	2.1	2.9	4.5	8.9	4.9	2.6	3.2	1.9	3.6	4.3	3.6
18	2.6	2.1	3.0	3.7	6.3	3.7	2.5	3.4	2.1	4.8	3.6	3.7
19	2.6	2.2	3.6	3.4	6.9	3.5	2.6	3.3	2.4	6.7	3.6	3.6
20	2.6	4.8	2.9	3.6	7.2	4.9	2.6	3.4	2.5	7.7	3.5	4.8
21	2.6	2.2	3.4	3.6	7.8	4.0	2.7	7.5	2.6	8.0	3.4	3.6
22	2.3	2.4	3.7	82	7.9	3.9	2.8	2.1	2.6	7.5	3.4	3.6
23	2.3	2.7	7.7	20	7.6	3.9	2.9	2.3	11	6.6	3.6	3.9
24	2.3	2.8	5.5	7.2	8.6	3.9	95	2.3	3.2	5.9	44	3.9
25	2.5	2.9	3.1	5.0	9.2	3.9	23	2.4	2.4	5.0	3.0	3.8
26	2.5	2.9	3.3	4.3	9.3	4.1	61	2.6	16	6.7	2.9	3.6
27	2.6	2.9	4.6	3.8	23	4.6	21	2.5	6.2	3.5	11	4.0
28	2.7	3.0	23	13	3.6	5.4	4.9	2.6	2.1	3.6	2.7	4.6
29	2.7	3.1	3.3	64	---	5.6	3.4	3.2	2.3	3.9	2.8	6.4
30	2.8	3.3	2.9	67	---	4.8	2.8	2.7	2.4	3.7	3.1	4.0
31	2.9	---	3.1	28	---	5.9	---	13	---	3.9	3.2	---
TOTAL	74.5	82.6	187.1	434.4	176.1	343.5	458.5	148.4	97.0	160.9	168.6	114.9
MEAN	2.40	2.75	6.04	14.0	6.29	11.1	15.3	4.79	3.23	5.19	5.44	3.83
MAX	4.1	7.1	49	82	23	118	99	39	16	25	44	6.4
MIN	1.9	1.8	2.6	3.2	3.2	2.6	2.5	2.1	1.8	2.4	2.7	2.9
MED	2.3	2.6	3.3	4.1	5.1	4.6	4.5	2.6	2.3	3.9	4.0	3.7
CFSM	1.07	1.22	2.68	6.23	2.80	4.92	6.79	2.13	1.44	2.31	2.42	1.70
IN.	1.23	1.37	3.09	7.18	2.91	5.68	7.58	2.45	1.60	2.66	2.79	1.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1999, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	2.99	4.70	7.43	7.50	9.96	7.63	7.68	4.27	5.76	4.18	3.49	3.08		
MAX	5.19	14.2	19.4	20.9	35.5	15.0	29.5	9.37	17.8	7.11	6.80	6.97		
(WY)	1997	1987	1991	1997	1991	1997	1991	1991	1997	1989	1992	1996		
MIN	1.96	2.37	2.69	2.65	2.60	2.96	2.36	2.30	2.08	2.29	1.95	1.61		
(WY)	1990	1998	1990	1986	1986	1993	1986	1987	1988	1987	1988	1998		

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1986 - 1999
ANNUAL TOTAL	2037.9	2446.5	
ANNUAL MEAN	5.58	6.70	5.70
HIGHEST ANNUAL MEAN			10.2
LOWEST ANNUAL MEAN			3.39
HIGHEST DAILY MEAN	170	118	556
LOWEST DAILY MEAN	1.3	1.8	1.3
ANNUAL SEVEN-DAY MINIMUM	1.3	1.9	1.3
INSTANTANEOUS PEAK FLOW		1000	1800
INSTANTANEOUS PEAK STAGE		7.54	11.00
INSTANTANEOUS LOW FLOW		1.7	1.3
ANNUAL RUNOFF (CFSM)	2.48	2.98	2.53
ANNUAL RUNOFF (INCHES)	33.69	40.45	34.39
10 PERCENT EXCEEDS	9.5	9.2	7.7
50 PERCENT EXCEEDS	2.9	3.6	2.7
90 PERCENT EXCEEDS	1.8	2.3	2.0

a Also occurred on Jun. 12,13.

07274252 OTOUCALOFA CREEK CANAL NEAR WATER VALLEY, MS

LOCATION.--Lat 34°08'04", long 89°38'59", in SE¹/₄ NE¹/₄ sec.7, T.11 S., R.4 W., Chickasaw Meridian, Yalobusha County, Hydrologic Unit 08030203, on right bank at upstream side of bridge on State Highway 7 Bypass, 1.0 mi west of Water Valley, 4.2 mi upstream from mouth, and 0.1 mi downstream from Johnson Creek.

DRAINAGE AREA.--97.1 mi².

PERIOD OF RECORD.--July 1985 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 250.95 ft above sea level.

REMARKS.--Estimated daily discharges: Apr. 6, Jun. 25, Jul. 9-15, Aug. 24-27. Records good except for estimated daily discharges, which are poor. Unpublished records of daily specific conductance, pH, water temperature, and dissolved oxygen during selected storm events are available in files of District office. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,800 ft³/s and maimum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Apr. 6	----	*5,590	*13.05	No other peak greather than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	27	33	97	389	100	80	92	130	48	34	28
2	32	27	33	918	210	442	71	82	62	43	32	28
3	36	26	33	292	158	1000	94	76	53	41	31	28
4	34	25	34	113	136	176	1180	71	47	38	30	28
5	34	24	34	84	118	127	230	469	44	38	26	27
6	33	25	35	82	112	1060	e2850	1240	42	41	25	27
7	38	25	43	78	116	214	437	181	40	43	25	26
8	35	32	60	443	103	144	219	111	39	60	24	27
9	31	29	47	1660	94	394	163	88	37	e46	25	27
10	31	43	63	258	132	149	137	78	36	e40	27	26
11	30	36	106	140	106	109	119	73	37	e72	25	26
12	29	31	1770	113	97	97	98	73	54	e52	25	26
13	29	29	355	131	87	2050	86	72	44	e43	24	26
14	29	38	107	223	79	1190	94	66	42	e38	24	26
15	29	38	80	117	78	357	436	62	42	e36	26	25
16	28	33	72	99	75	181	133	59	38	34	27	25
17	28	31	66	90	92	139	99	57	35	34	27	25
18	28	30	64	122	85	115	87	57	34	33	27	25
19	28	29	67	95	77	99	83	56	33	32	27	25
20	28	39	65	83	70	108	77	53	33	31	27	26
21	30	37	62	79	67	114	73	56	33	31	27	26
22	30	33	106	1780	65	91	68	54	32	30	27	26
23	30	32	99	1770	65	83	64	56	44	29	26	26
24	30	32	171	404	63	81	850	50	86	28	e250	25
25	30	32	96	195	62	77	1240	48	e120	28	e120	25
26	29	32	90	148	62	70	1350	49	171	56	e38	25
27	28	32	101	127	139	66	1110	49	196	78	e34	25
28	28	32	1050	133	278	65	256	46	165	40	32	25
29	28	31	191	1030	---	79	139	45	68	36	30	27
30	27	32	102	1530	---	75	109	46	55	36	29	27
31	27	---	82	1400	---	84	---	84	---	35	29	---
TOTAL	939	942	5317	13834	3215	9136	12032	3699	1892	1270	1180	784
MEAN	30.3	31.4	172	446	115	295	401	119	63.1	41.0	38.1	26.1
MAX	38	43	1770	1780	389	2050	2850	1240	196	78	250	28
MIN	27	24	33	78	62	65	64	45	32	28	24	25
CFSM	.31	.32	1.77	4.60	1.18	3.04	4.13	1.23	.65	.42	.39	.27
IN.	.36	.36	2.04	5.30	1.23	3.50	4.61	1.42	.72	.49	.45	.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1999, BY WATER YEAR (WY)

	MEAN	55.2	121	257	257	350	298	282	171	167	89.9	62.6	51.1
MAX	156	496	832	465	1018	535	1351	778	539	366	193	116	
(WY)	1998	1987	1992	1989	1991	1997	1991	1991	1997	1989	1992	1997	
MIN	23.8	31.4	57.8	42.0	69.1	103	49.1	30.5	19.3	24.6	18.2	18.7	
(WY)	1988	1999	1986	1986	1986	1988	1986	1988	1988	1988	1988	1986	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1986 - 1999

ANNUAL TOTAL	56138	54240	
ANNUAL MEAN	154	149	179
HIGHEST ANNUAL MEAN			393
LOWEST ANNUAL MEAN			66.8
HIGHEST DAILY MEAN	2770	Apr 28	14800
LOWEST DAILY MEAN	24	Nov 5	13
ANNUAL SEVEN-DAY MINIMUM	26	Nov 1	14
INSTANTANEOUS PEAK FLOW			17700
INSTANTANEOUS PEAK STAGE			20.10
INSTANTANEOUS LOW FLOW			11
ANNUAL RUNOFF (CFSM)	1.58	1.53	1.85
ANNUAL RUNOFF (INCHES)	21.51	20.78	25.07
10 PERCENT EXCEEDS	284	226	340
50 PERCENT EXCEEDS	64	53	66
90 PERCENT EXCEEDS	31	27	26

e Estimated

a From floodmark

07275530 PETERS (LONG) CREEK NEAR POPE, MS

LOCATION.--Lat 34°12'51", long 89°58'45", in NW1/4 SW1/4 sec.18, T.10 S., R.7 W., Chickasaw Meridian, Panola County, Hydrologic Unit 08030203, near right bank on downstream side of bridge on county road, 1.5 mi west of Pope, 3.0 mi upstream from mouth, and 0.4 mi downstream from Bobo Bayou.

DRAINAGE AREA.--79.2 mi².

PERIOD OF RECORD.--December 1986 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 182.51 ft above sea level.

REMARKS.--Estimated daily discharges: July 17-19. Records good except for estimated daily discharges, which are poor. Unpublished records of daily specific conductance, pH, and water temperature during selected storm events are available in files of District office. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 22	1230	*10,700	*14.69	Mar. 13	1145	10,500	14.63

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.8	12	23	133	50	56	43	18	27	18	21
2	12	10	12	814	81	602	44	40	18	21	18	21
3	13	9.9	12	97	59	374	87	38	17	20	17	21
4	12	9.7	13	23	47	84	2110	46	17	18	17	20
5	12	9.7	13	16	40	65	431	1020	16	17	18	21
6	12	10	13	15	40	840	2190	1130	16	17	18	20
7	14	10	27	16	48	126	194	71	15	17	18	19
8	14	12	69	72	40	106	94	35	15	17	20	18
9	12	10	20	554	35	500	68	28	15	21	56	18
10	12	11	30	42	226	105	53	24	16	23	23	16
11	12	11	53	23	81	62	44	22	14	275	20	16
12	12	9.7	220	18	100	49	37	22	14	40	20	16
13	13	9.6	39	19	62	4810	35	21	18	21	19	15
14	12	11	19	24	47	952	108	19	20	18	19	15
15	12	12	16	17	42	259	324	19	14	17	19	14
16	12	11	16	15	40	118	55	19	14	17	19	13
17	12	10	15	16	42	86	39	19	13	e34	20	13
18	12	10	15	112	40	71	34	19	13	e20	20	13
19	11	10	18	24	39	59	32	18	13	e18	20	13
20	11	13	17	17	34	66	30	18	13	18	21	14
21	11	11	16	15	33	64	28	18	13	18	21	14
22	11	11	21	3400	31	53	27	18	13	18	21	13
23	10	11	20	692	33	49	26	18	17	17	21	13
24	11	11	37	142	31	47	104	17	20	18	192	13
25	11	11	19	87	31	44	102	16	29	18	53	12
26	11	11	19	69	30	42	434	17	44	19	29	12
27	11	11	24	60	129	40	591	17	566	20	25	12
28	10	11	372	55	153	39	95	16	49	20	25	12
29	11	11	37	2190	---	44	59	16	26	19	23	13
30	11	12	22	1280	---	42	49	16	310	19	22	12
31	11	---	19	447	---	57	---	17	---	18	22	---
TOTAL	363	320.4	1255	10394	1747	9905	7580	2857	1396	880	874	463
MEAN	11.7	10.7	40.5	335	62.4	320	253	92.2	46.5	28.4	28.2	15.4
MAX	14	13	372	3400	226	4810	2190	1130	566	275	192	21
MIN	10	9.6	12	15	30	39	26	16	13	17	17	12
CFSM	.15	.13	.51	4.23	.79	4.03	3.19	1.16	.59	.36	.36	.19
IN.	.17	.15	.59	4.88	.82	4.65	3.56	1.34	.66	.41	.41	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1999, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	18.5	64.4	158	200	289	245	194	83.7	85.2	52.4	34.5	29.1	
MAX	43.0	214	418	393	836	350	947	257	333	323	78.2	133	
(WY)	1997	1992	1992	1989	1991	1995	1991	1989	1997	1989	1993	1997	
MIN	9.09	10.7	40.5	64.5	58.6	57.6	36.2	13.6	9.26	12.7	12.6	9.35	
(WY)	1988	1999	1999	1987	1996	1993	1992	1988	1988	1993	1990	1987	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1987 - 1999
ANNUAL TOTAL	33659.4	38034.4	
ANNUAL MEAN	92.2	104	124
HIGHEST ANNUAL MEAN			228
LOWEST ANNUAL MEAN			64.0
HIGHEST DAILY MEAN	3760	4810	11700
LOWEST DAILY MEAN	9.6	9.6	1.8
ANNUAL SEVEN-DAY MINIMUM	9.9	9.9	2.6
INSTANTANEOUS PEAK FLOW	9.9	10700	26500
INSTANTANEOUS PEAK STAGE		14.69	21.13
INSTANTANEOUS LOW FLOW		9.2	1.6
ANNUAL RUNOFF (CFSM)	1.16	1.32	1.56
ANNUAL RUNOFF (INCHES)	15.81	17.86	21.22
10 PERCENT EXCEEDS	117	114	189
50 PERCENT EXCEEDS	17	20	22
90 PERCENT EXCEEDS	11	11	11

e Estimated

YAZOO RIVER BASIN

07275900 COLDWATER RIVER NEAR OLIVE BRANCH, MS

LOCATION.--Lat 34°54'28", long 89°45'02", in SE1/4 SW1/4 sec.17, T.2 S., R.5 W., Chickasaw Meridian, Desoto County, Hydrologic Unit 08030204 at State Highway 178, about 7 miles east of Olive Branch, Mississippi.

DRAINAGE AREA.--191 mi².

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 280.0 ft above sea level (Mississippi Department of Transportation datum).

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	67	94	120	1980	113	319	183	70	119	60	47
2	74	68	101	281	1400	104	232	122	71	107	59	47
3	88	68	95	353	859	101	198	105	69	84	56	48
4	116	68	93	414	390	102	909	101	67	72	55	49
5	110	68	103	300	202	99	1240	1500	65	65	55	49
6	92	68	121	149	161	184	1060	2130	63	63	55	53
7	95	68	130	132	265	212	797	2210	61	65	55	97
8	106	71	216	190	282	179	681	1270	60	73	56	66
9	116	80	242	331	234	150	522	523	59	67	56	54
10	92	86	216	466	172	156	211	163	58	70	59	51
11	82	97	183	806	154	146	153	121	58	96	59	49
12	77	118	283	579	165	131	133	108	58	217	58	49
13	75	95	302	213	161	1010	115	105	63	228	56	49
14	73	84	332	152	141	2700	107	95	65	122	54	49
15	71	86	245	131	123	3040	144	88	63	86	52	49
16	70	88	145	117	117	1740	191	87	61	76	52	48
17	69	86	119	110	116	902	168	85	59	71	50	47
18	69	85	109	109	116	380	119	81	57	67	49	46
19	69	84	119	130	112	198	108	78	56	65	50	46
20	71	86	145	118	108	191	103	76	56	62	49	46
21	70	99	143	105	103	227	100	74	58	60	49	46
22	68	107	122	507	103	214	94	75	59	60	49	46
23	67	95	122	2490	101	169	89	144	59	59	49	46
24	65	91	121	2490	100	158	85	179	69	59	52	46
25	66	91	120	1620	98	156	86	110	94	60	53	46
26	66	91	115	805	97	136	157	83	285	65	54	46
27	66	90	118	281	99	120	774	78	321	82	52	45
28	66	87	187	174	110	111	977	75	266	99	51	45
29	67	87	234	812	---	118	953	72	295	80	50	48
30	67	88	217	1970	---	151	558	69	189	67	48	54
31	68	---	150	2490	---	269	---	68	---	63	48	---
TOTAL	2423	2547	5042	18945	8069	13667	11383	10258	2934	2629	1650	1507
MEAN	78.2	84.9	163	611	288	441	379	331	97.8	84.8	53.2	50.2
MAX	116	118	332	2490	1980	3040	1240	2210	321	228	60	97
MIN	65	67	93	105	97	99	85	68	56	59	48	45
MED	71	86	130	281	132	158	180	101	63	70	53	48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 1999, BY WATER YEAR (WY)

	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999
MEAN	114	126	193	461	443	676	289	247	192	108	84.5	144
MAX	150	175	231	611	537	1082	379	331	396	123	111	298
(WY)	1997	1997	1997	1999	1998	1997	1999	1999	1997	1998	1998	1997
MIN	78.2	84.9	163	195	288	441	236	195	81.0	84.8	53.2	50.2
(WY)	1999	1999	1999	1997	1999	1999	1997	1997	1998	1999	1999	1999

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1997 - 1999

ANNUAL TOTAL	85050	81054	256
ANNUAL MEAN	233	222	304
HIGHEST ANNUAL MEAN			222
LOWEST ANNUAL MEAN			304
HIGHEST DAILY MEAN	2480	3040	6700
LOWEST DAILY MEAN	55	45	45
ANNUAL SEVEN-DAY MINIMUM	57	46	46
INSTANTANEOUS PEAK FLOW		3370	9030
INSTANTANEOUS PEAK STAGE		9.16	10.84
INSTANTANEOUS LOW FLOW		45	45
10 PERCENT EXCEEDS	511	384	500
50 PERCENT EXCEEDS	106	95	114
90 PERCENT EXCEEDS	67	52	63

a Occurred part of each day.

LOCATION.--Lat 34°37'54", long 89°55'30", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.22, T.5 S., R.7 W., Chickasaw Meridian, Tate County, Hydrologic Unit 08030204, on left bank at downstream side of bridge on county road, 1.7 mi east of Senatobia, 1.5 mi upstream from mouth, and 0.9 mi downstream from Basket Creek.

PERIOD OF RECORD.--Water years 1975, 1986 to current year.

DISCHARGE: February 1986 to current year.
SPECIFIC CONDUCTANCE: February 1986 to October 1989.
pH: February 1986 to October 1989.
WATER TEMPERATURE: February 1986 to October 1989.
DISSOLVED OXYGEN: February 1986 to October 1989.
SUSPENDED SEDIMENT CONCENTRATION: February 1986 to current year.
SUSPENDED SEDIMENT DISCHARGE: February 1986 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 233.02 ft above sea level. September 4, 1942 to February 6, 1986, discharge measurements and gage height record at same site and datum in files of U.S. Army Corps of Engineers, Vicksburg District. Automatic pumping sediment sampler since February 1986.

REMARKS.--Estimated daily discharges: Dec. 1-7, Feb. 5-6, 15-24, Mar. 18-19, Apr. 19-25, May 25-June 1. Discharge records good except for estimated daily discharges, which are poor. Satellite telemeter at station. Unpublished records of daily specific conductance, pH, water temperature, and dissolved oxygen during selected storm events are available in files of District office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 19,100 ft³/s, Feb. 3, 1990, gage height, 19.91 ft; minimum, 22 ft³/s, all or part of each day, July 4-11, 1988.
SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 5,110 mg/L, Feb. 21, 1989; minimum daily mean, 2 mg/L, Oct. 16, 1987.
SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 118,000 tons, Feb. 3, 1990; minimum daily, 0.15 ton, Oct. 16, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD. --

DISCHARGE: Flood of June 22, 1947, reached a stage of 20.6 ft. from flood mark (from information by U.S. Army Corps of Engineers).

EXTREMES FOR CURRENT YEAR. --

DISCHARGE: Maximum, 12,900 ft³/s, Mar. 13, gage height, 15.81 ft; minimum, 28 ft³/s, Aug. 22.
SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 1,680 mg/L, Jan. 22; minimum daily mean, 13 mg/L, Oct. 17-22,
Nov. 7, Sept. 13-14.
SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 33,000 tons, Mar. 13; minimum daily, 1.5 tons, Oct. 17, 18, 22, Dec. 5,
Sept. 13, 14, 26-28.

		DIS-
		CHARGE,
		INST.
		CUBIC
		FEET
DATE	TIME	PER
		SECOND
		(00061)

JUN
17... 1045 44

DATE	TIME	BED	BED	BED	BED	BED	BED	SAMPLE
		MAT.	MAT.	MAT.	MAT.	MAT.	MAT.	LOCAT.
		SIEVE	SIEVE	SIEVE	SIEVE	SIEVE	SIEVE	X-SECT.
		DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	LOOKING
		% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	UPSTRM.
		THAN	THAN	THAN	THAN	THAN	THAN	(% FROM
		.062 MM	.125 MM	.250 MM	.500 MM	1.00 MM	2.00 MM	R BANK)
		(80164)	(80165)	(80166)	(80167)	(80168)	(80169)	(80002)
JUN								
17...	1047	--	<1	2	29	92	95	25.0
17...	1049	2	2	5	67	98	99	50.0
17...	1051	<1	1	4	56	98	100	75.0

YAZOO RIVER BASIN

07277700 HICKAHALA CREEK NEAR SENATOBIA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	36	37	3.7	39	18	1.9	40	22	2.4
2	38	41	4.2	39	18	1.9	40	21	2.3
3	49	44	5.8	41	17	1.9	38	19	1.9
4	40	40	4.3	41	16	1.8	38	17	1.7
5	40	36	4.0	42	15	1.7	37	15	1.5
6	40	36	3.9	46	14	1.7	37	15	1.6
7	47	36	4.6	45	13	1.6	74	32	6.2
8	45	35	4.2	49	14	1.9	145	137	66
9	44	24	2.8	44	16	1.9	100	59	16
10	46	15	1.9	53	17	2.4	130	98	64
11	45	14	1.7	50	18	2.4	198	127	86
12	43	14	1.6	45	19	2.3	380	588	766
13	43	14	1.6	43	17	2.0	166	126	61
14	45	14	1.7	47	16	2.1	81	52	12
15	44	14	1.7	44	16	1.9	66	25	4.4
16	44	14	1.7	44	16	1.9	63	21	3.5
17	42	13	1.5	43	17	1.9	54	20	2.9
18	43	13	1.5	42	17	2.0	57	29	4.4
19	47	13	1.6	42	18	2.0	87	42	9.9
20	45	13	1.6	49	19	2.5	69	33	6.2
21	44	13	1.6	45	20	2.4	60	25	4.0
22	43	13	1.5	44	21	2.5	60	26	4.2
23	45	14	1.8	43	22	2.5	58	27	4.2
24	45	16	1.9	42	20	2.3	55	29	4.3
25	45	16	2.0	41	19	2.2	67	31	5.6
26	44	17	2.0	42	21	2.3	94	33	8.4
27	41	18	2.0	42	22	2.6	121	35	11
28	42	19	2.2	42	21	2.4	250	161	126
29	42	20	2.2	39	19	2.1	106	60	18
30	42	18	2.1	42	19	2.1	58	31	4.8
31	41	17	1.9	---	---	---	47	23	2.9
JANUARY			FEBRUARY			MARCH			
1	50	24	4.4	257	146	103	64	28	4.9
2	1220	578	2000	167	99	45	74	41	11
3	274	146	124	115	68	21	140	95	39
4	89	61	15	89	48	12	75	38	7.8
5	50	41	5.6	65	41	7.2	77	28	5.9
6	42	37	4.2	60	36	5.8	514	722	1350
7	40	37	4.0	208	166	107	173	99	49
8	356	490	1710	119	131	43	137	37	14
9	1140	961	4960	95	98	26	269	217	173
10	245	106	73	185	170	87	150	61	25
11	190	44	23	148	125	50	120	31	10
12	167	35	16	217	149	91	99	27	7.2
13	154	30	12	138	66	25	7270	1300	33000
14	142	26	9.9	94	46	12	1530	402	1990
15	127	25	8.4	74	39	7.8	295	125	106
16	118	24	7.6	68	35	6.4	171	62	29
17	113	22	6.6	68	32	5.9	125	39	13
18	102	20	5.5	68	30	5.5	77	78	17
19	91	18	4.5	65	27	4.7	60	65	11
20	88	17	4.1	65	25	4.4	164	178	98
21	86	19	4.3	62	23	3.8	169	99	47
22	5640	1680	30400	62	21	3.5	77	70	15
23	1020	386	1520	60	21	3.4	57	55	8.5
24	261	101	73	65	22	3.9	69	46	8.5
25	180	59	29	64	22	3.7	52	38	5.3
26	141	37	14	62	19	3.2	42	33	3.7
27	119	31	9.9	67	16	3.0	40	28	3.0
28	111	29	9.1	96	38	10	42	24	2.7
29	4730	1260	18600	---	---	---	476	310	590
30	1690	597	2790	---	---	---	192	74	40
31	652	290	559	---	---	---	241	120	103

07277700 HICKAHALA CREEK NEAR SENATOBIA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	233	80	55	86	28	6.4	55	33	4.9
2	139	45	17	74	25	5.0	53	34	4.9
3	562	152	1800	63	24	4.1	50	34	4.6
4	4080	1270	25600	64	43	9.4	49	33	4.3
5	322	130	120	326	466	474	46	33	4.0
6	1380	423	2240	305	450	477	43	32	3.8
7	231	108	69	146	55	22	41	32	3.6
8	165	79	35	109	35	10	42	34	3.8
9	143	58	23	88	30	7.1	40	36	3.9
10	123	44	15	77	28	5.9	39	37	3.9
11	104	40	11	72	27	5.3	39	35	3.7
12	78	38	7.9	74	27	5.3	42	33	3.8
13	68	39	7.2	68	26	4.8	83	54	15
14	76	39	8.5	62	26	4.4	61	49	8.3
15	208	169	101	61	24	4.0	46	37	4.6
16	84	64	15	57	25	3.8	44	33	4.0
17	58	34	5.3	55	33	4.9	42	35	4.0
18	52	23	3.3	56	30	4.6	41	31	3.4
19	48	24	3.1	53	29	4.1	41	35	3.9
20	48	26	3.4	50	29	3.9	40	41	4.4
21	48	32	4.1	54	30	4.3	40	46	4.9
22	46	38	4.7	56	30	4.6	40	46	4.9
23	45	34	4.1	45	31	3.8	48	57	7.6
24	44	29	3.4	43	33	3.8	138	117	67
25	43	28	3.2	46	33	4.1	150	115	52
26	325	428	456	46	30	3.7	1040	1080	6600
27	1790	777	5550	46	27	3.4	466	550	1030
28	247	134	95	50	31	4.2	172	149	78
29	156	53	23	57	35	5.4	91	49	12
30	116	34	11	55	34	5.0	118	47	16
31	---	---	---	55	33	4.9	---	---	---
JULY			AUGUST			SEPTEMBER			
1	70	28	5.4	41	26	2.9	49	31	4.1
2	59	24	3.8	38	27	2.7	49	27	3.7
3	54	22	3.2	39	27	2.8	49	24	3.3
4	50	21	2.9	40	27	2.9	47	24	3.0
5	50	22	3.0	40	31	3.4	46	23	2.8
6	47	24	3.1	40	31	3.3	45	22	2.6
7	71	68	24	40	30	3.2	48	20	2.6
8	416	204	496	40	30	3.2	45	19	2.3
9	89	33	8.1	48	30	3.9	45	18	2.2
10	132	91	94	40	29	3.2	44	17	2.0
11	597	446	863	39	29	3.0	45	15	1.8
12	181	103	55	38	28	2.9	43	14	1.6
13	93	63	16	38	28	2.8	44	13	1.5
14	75	45	9.2	38	28	2.9	44	13	1.5
15	68	32	6.0	39	28	2.9	42	16	1.8
16	64	24	4.1	39	28	3.0	40	18	2.0
17	61	22	3.6	37	30	3.0	40	18	1.9
18	58	21	3.3	50	44	6.5	40	18	1.9
19	63	35	6.2	38	30	3.0	39	18	1.9
20	52	22	3.2	34	29	2.7	39	17	1.8
21	50	28	3.8	34	29	2.6	40	17	1.8
22	48	28	3.7	33	28	2.6	41	16	1.8
23	46	27	3.4	33	28	2.5	40	16	1.8
24	45	25	3.1	529	487	1780	40	16	1.7
25	44	24	2.8	110	79	26	39	15	1.6
26	73	71	18	68	42	7.8	37	15	1.5
27	167	121	90	61	38	6.2	38	15	1.5
28	62	48	8.4	56	36	5.5	36	15	1.5
29	47	37	4.7	54	36	5.2	125	56	22
30	44	30	3.6	54	35	5.1	51	23	3.2
31	42	26	3.0	52	34	4.8	---	---	---

07277730 SENATOBIA CREEK NEAR SENATOBIA,

LOCATION.--Lat 34°37'01", Long 89°56'19", in SE1/4 NW1/4 sec. 28, T.5 S., R.7 W., Chickasaw Meridian, Tate County, Hydrologic Unit 08030204, on right bank at upstream side of bridge on State Highway 4, 0.5 mi east of Senatobia, 1.4 mi upstream of Hichahaw Creek, and 4.1 mi downstream of Nelso Creek.

DRAINAGE AREA.--62.8 mi².

PERIOD OF RECORD.--February 1986 to current year. Sept. 3, 1942, to Dec. 15, 1973, and Oct. 18, 1974 to Oct. 2, 1985, (gage heights and occasional discharge measurements) in reports of U.S. Army Corps of Engineers, Vicksburg district.

REVISED RECORDS.--WDR MS-97-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 233.80 ft above sea level.

REMARKS.--Estimated daily discharges: Jan. 14-20 and Sept. 13-22, 30. Records fair except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 28, 1982, reached a stage of 26.10 ft (from information by US Army Corps of Engineers).

EXTREMES FRO CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 13	1345	*5,710	*15.12				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	8.7	13	25	100	19	123	22	17	20	12	10
2	15	8.9	12	726	62	219	54	21	17	19	12	10
3	16	10	13	135	46	244	197	20	16	19	12	10
4	14	13	12	43	38	57	1300	20	16	19	12	10
5	15	13	12	35	33	57	210	213	16	19	11	11
6	14	13	12	33	31	460	597	311	15	19	11	11
7	16	14	15	35	50	71	111	41	15	196	11	10
8	14	15	22	260	39	40	60	28	16	307	11	11
9	14	14	15	482	33	159	48	23	16	33	206	11
10	14	12	20	68	239	43	38	21	16	26	16	11
11	14	11	50	44	64	32	33	20	17	594	14	12
12	14	12	152	38	217	29	28	20	17	122	13	12
13	12	13	37	36	56	2230	27	20	17	33	13	e12
14	12	14	17	e32	36	719	27	19	17	26	13	e12
15	12	13	15	e29	30	207	143	18	16	22	13	e12
16	11	12	14	e28	28	78	38	18	17	19	12	e12
17	11	12	14	e26	27	50	31	18	17	18	12	e12
18	11	12	16	e24	25	40	32	18	17	17	12	e13
19	12	12	20	e22	24	32	29	18	17	16	12	e13
20	10	15	19	e21	22	102	27	17	17	16	12	e13
21	10	13	18	31	21	100	28	17	17	15	12	e13
22	10	13	21	1790	21	51	24	17	17	15	12	e13
23	11	13	21	481	21	34	22	17	18	15	12	13
24	11	13	22	104	20	32	21	16	24	15	164	13
25	11	13	21	58	20	29	22	17	24	17	19	13
26	9.8	12	32	45	20	23	106	17	122	26	12	13
27	10	13	29	40	20	22	576	16	209	19	11	13
28	10	13	187	39	20	23	64	20	41	13	11	13
29	9.8	13	45	1610	---	329	32	23	24	13	11	60
30	8.9	14	32	829	---	81	25	17	21	13	11	e27
31	9.0	---	25	341	---	194	---	17	---	12	10	---
TOTAL	376.5	377.6	953	7510	1363	5806	4073	1100	846	1733	725	419
MEAN	12.1	12.6	30.7	242	48.7	187	136	35.5	28.2	55.9	23.4	14.0
MAX	16	15	187	1790	239	2230	1300	311	209	594	206	60
MIN	8.9	8.7	12	21	20	19	21	16	15	12	10	10
MD	12	13	20	40	30	57	36	19	17	19	12	12
AC-FT	747	749	1890	14900	2700	11520	8080	2180	1680	3440	1440	831
CFSM	.15	.15	.37	2.95	.59	2.28	1.66	.43	.34	.68	.29	.17
IN.	.17	.17	.43	3.41	.62	2.63	1.85	.50	.38	.79	.33	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1999, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	15.3	67.0	146	149	183	154	118	64.0	110	62.8	28.3	29.8		
MAX	27.8	219	370	391	472	305	668	227	457	331	72.1	98.1		
(WY)	1997	1987	1991	1989	1990	1994	1991	1991	1989	1989	1993	1997		
MIN	10.6	12.6	30.7	25.7	32.2	24.5	11.4	8.54	8.85	8.75	9.47	7.63		
(WY)	1988	1999	1999	1987	1996	1986	1986	1986	1988	1986	1988	1987		

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1986 - 1999
ANNUAL TOTAL	24628.1	25282.1	
ANNUAL MEAN	67.5	69.3	95.1
HIGHEST ANNUAL MEAN			175
LOWEST ANNUAL MEAN			45.8
HIGHEST DAILY MEAN	2260	2230	5890
LOWEST DAILY MEAN	8.7	8.7	7.2
ANNUAL SEVEN-DAY MINIMUM	9.3	9.3	7.3
INSTANTANEOUS PEAK FLOW		5710	12700
INSTANTANEOUS PEAK STAGE		15.12	19.55
INSTANTANEOUS LOW FLOW		8.6	7.1
ANNUAL RUNOFF (AC-FT)	48850	50150	68910
ANNUAL RUNOFF (CFSM)	.82	.84	1.16
ANNUAL RUNOFF (INCHES)	11.17	11.47	15.76
10 PERCENT EXCEEDS	145	128	142
50 PERCENT EXCEEDS	19	19	17
90 PERCENT EXCEEDS	13	11	9.9

e Estimated

07280400 TILLATOBA CREEK AT CHARLESTON, MS

LOCATION.--Lat 34°00'02", long 90°03'46", in SW1/4 SW1/4 sec.26, T.25 N., R.2 E., Choctaw Meridian, Tallahatchie County, Hydrologic Unit 08030202, County code 135, at State Highway 35 at Charleston, MS.

DRAINAGE AREA.--118 mi².

PERIOD OF RECORD.--January 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 151.025 ft above sea level (Mississippi Department of Transportation datum).

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	12	22	61	385	155	88	80	32	125	20	13
2	17	12	22	933	263	314	79	66	30	68	20	13
3	18	12	23	389	195	713	83	59	27	46	19	13
4	18	12	23	158	145	212	1380	59	26	36	19	13
5	18	12	25	96	111	148	490	752	25	31	18	14
6	17	13	26	74	98	1160	3790	2190	24	29	18	26
7	22	13	36	66	107	354	914	373	23	30	17	15
8	22	19	64	263	96	228	568	180	23	39	18	14
9	17	18	39	1420	86	493	441	126	23	27	26	13
10	16	20	37	364	80	238	359	99	23	27	19	12
11	15	22	85	208	76	169	265	83	24	109	18	12
12	15	17	563	137	81	127	205	76	24	144	17	12
13	14	16	216	106	69	2480	165	106	24	49	17	12
14	14	23	83	120	64	1230	150	70	25	36	16	11
15	14	27	56	85	62	525	501	59	28	33	15	11
16	14	21	47	71	61	339	199	52	31	30	15	10
17	14	19	42	66	69	259	141	48	27	33	15	10
18	14	18	38	84	76	206	114	47	26	28	15	10
19	15	18	42	69	68	164	98	43	27	27	15	11
20	14	21	41	62	58	144	84	39	23	26	14	11
21	13	22	40	62	53	136	73	37	22	25	14	10
22	12	20	130	2160	49	115	66	36	22	24	14	10
23	12	19	72	1450	50	103	60	35	32	23	13	10
24	11	20	267	469	49	98	76	32	142	22	24	10
25	12	20	90	292	49	94	219	30	173	22	37	10
26	11	20	68	195	52	85	840	30	147	25	17	10
27	12	19	68	139	149	78	695	29	509	28	15	10
28	12	20	393	110	463	75	230	28	197	23	14	11
29	11	21	153	553	---	79	129	29	107	22	14	14
30	12	21	78	1620	---	79	100	29	590	21	13	14
31	12	---	59	854	---	85	---	38	---	21	13	---
TOTAL	456	547	2948	12736	3164	10685	12602	4960	2456	1229	539	365
MEAN	14.7	18.2	95.1	411	113	345	420	160	81.9	39.6	17.4	12.2
MAX	22	27	563	2160	463	2480	3790	2190	590	144	37	26
MIN	11	12	22	61	49	75	60	28	22	21	13	10
MED	14	19	56	139	76	164	182	52	26	28	17	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 1999, BY WATER YEAR (WY)

	46.3	63.5	159	433	314	435	275	207	224	58.2	23.5	43.3
MEAN	46.3	63.5	159	433	314	435	275	207	224	58.2	23.5	43.3
MAX	97.5	131	238	514	525	584	420	376	548	91.2	33.2	99.3
(WY)	1998	1997	1997	1997	1997	1997	1999	1997	1997	1997	1997	1997
MIN	14.7	18.2	95.1	374	113	345	149	85.0	40.8	39.6	17.4	12.2
(WY)	1999	1999	1999	1998	1999	1999	1997	1998	1998	1999	1999	1999

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1997 - 1999

ANNUAL TOTAL	49788	52687	190
ANNUAL MEAN	136	144	275
HIGHEST ANNUAL MEAN			144
LOWEST ANNUAL MEAN			144
HIGHEST DAILY MEAN	3540	3790	4530
LOWEST DAILY MEAN	11	10	6.8
ANNUAL SEVEN-DAY MINIMUM	12	10	7.1
INSTANTANEOUS PEAK FLOW		7480	7660
INSTANTANEOUS PEAK STAGE		20.77	21.56
INSTANTANEOUS LOW FLOW		9.6	6.5
10 PERCENT EXCEEDS	356	345	493
50 PERCENT EXCEEDS	33	36	49
90 PERCENT EXCEEDS	16	13	16

YAZOO RIVER BASIN

07281600 TALLAHATCHIE RIVER AT MONEY, MS

LOCATION.--Lat 33°39'05", long 90°12'39", in NW1/4 SE1/4 sec.29, T.21 N., R.1 E., Choctaw Meridian, Leflore County, Hydrologic Unit 08030202, County code 83, at county road bridge at Money, Ms, about 9 mi north of Greenwood, MS, 193 mi above confluence at Vicksburg.

DRAINAGE AREA.--5221 mi², U.S. Army Corps of Engineers

PERIOD OF RECORD.--October 1995 to current year. Jan. 22, 1948 to date, stage data available; March 1934 to date; measured discharge available in U.S. Army Corps of Engineers records.

GAGE.--Water-stage recorder. Datum of gage is 98.98 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3610	5160	3280	7130	15200	12300	8840	9110	5240	8940	5120	5400
2	3600	5180	2890	7680	15200	12000	8720	8720	5230	8760	5090	5330
3	3630	5160	2510	9410	15100	12000	8640	7990	5170	8130	5110	5300
4	3690	5100	2150	9970	15100	12000	9510	7190	5010	7100	5320	5370
5	3480	4940	1830	9830	15000	11500	10700	6870	4940	6020	5410	5420
6	3240	4890	1790	9810	14900	10900	11700	8930	5030	5110	5130	5540
7	3150	4980	1840	9820	14900	10900	12700	10300	5090	4340	4930	5620
8	3100	5240	2020	9860	14800	10500	13100	10600	5080	3750	4780	5630
9	3080	5530	2210	10500	14700	10300	13400	10700	4940	3820	4780	5610
10	3170	5690	2140	11100	14600	10200	13500	10500	4730	4070	5150	5570
11	3240	5750	1940	11100	14600	9880	13400	9960	4610	4380	5290	5520
12	3250	5740	3690	10900	14500	9270	13300	9250	4660	6020	5100	5440
13	3240	5660	6530	10700	14500	9290	13100	8470	4890	7180	4790	5210
14	3220	5760	7110	10500	14400	11000	12700	7660	5080	7440	4730	5300
15	3200	6030	6400	10400	14300	12100	12500	7070	5360	7290	4810	5390
16	3170	6020	6020	10400	14300	12900	12300	6650	5550	6870	4810	5420
17	3070	5860	6030	10400	14200	13200	11900	6320	5550	6260	4760	5410
18	3150	5850	5980	10400	14200	13400	11300	6050	5350	5610	4760	5390
19	3240	5820	5870	10300	14100	13400	10600	5790	4930	5020	4910	5330
20	3270	5810	5730	10300	14000	13200	9940	5450	4480	4510	5160	5240
21	3260	5770	5580	10200	13900	13000	9150	5110	3950	4150	5290	5200
22	3240	5700	5670	10400	13800	12800	8370	4890	3460	3820	5310	4880
23	3220	5590	5840	11400	13600	12500	7680	4750	3180	3910	5100	4370
24	3210	5370	6560	12100	13500	12000	7020	4740	3300	4320	5240	3940
25	3210	4900	6940	12500	13300	11500	6590	4920	3880	4670	5580	3850
26	3280	4560	6480	12500	13000	11100	6620	5070	4950	4780	5890	3810
27	3440	4370	5870	12500	12700	10700	7650	5140	5860	4840	5750	3680
28	4120	4220	5930	12600	12500	10300	8760	5140	7620	5070	5470	3650
29	4790	4070	6950	13000	---	9760	9210	5120	8660	5160	5410	3810
30	5010	3720	7410	14100	---	9330	9260	5140	8870	5160	5500	3660
31	5120	---	7310	14800	---	9080	---	5190	---	5150	5510	---
TOTAL	107700	158440	148500	336610	398900	352310	312160	218790	154650	171650	159990	149290
MEAN	3474	5281	4790	10860	14250	11360	10410	7058	5155	5537	5161	4976
MAX	5120	6030	7410	14800	15200	13400	13500	10700	8870	8940	5890	5630
MIN	3070	3720	1790	7130	12500	9080	6590	4740	3180	3750	4730	3650
CFSM	.67	1.01	.92	2.08	2.73	2.18	1.99	1.35	.99	1.06	.99	.95
IN.	.77	1.13	1.06	2.40	2.84	2.51	2.22	1.56	1.10	1.22	1.14	1.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999
MEAN	6348	7205	8293	12540	13190
MAX	9356	9093	12990	14900	16680
(WY)	1998	1997	1997	1997	1997
MIN	3474	5281	4790	10170	7889
(WY)	1999	1999	1999	1996	1996

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1995 - 1999

	1998	1999	1995-1999
ANNUAL TOTAL	2662070	2668990	8131
ANNUAL MEAN	7293	7312	11130
HIGHEST ANNUAL MEAN			5709
LOWEST ANNUAL MEAN			18900
HIGHEST DAILY MEAN	16700	Jan 24	15200
LOWEST DAILY MEAN	1790	Dec 6	1790
ANNUAL SEVEN-DAY MINIMUM	1970	Dec 5	1970
INSTANTANEOUS PEAK FLOW			15300
INSTANTANEOUS PEAK STAGE			31.66
INSTANTANEOUS LOW FLOW			1780
ANNUAL RUNOFF (CFSM)	1.40	1.40	1.40
ANNUAL RUNOFF (INCHES)	18.97	19.02	21.16
10 PERCENT EXCEEDS	14900	13100	14100
50 PERCENT EXCEEDS	5970	5730	7820
90 PERCENT EXCEEDS	3060	3470	3190

07281960 YALOBUSHA RIVER AT VARDAMAN, MS

LOCATION.--Lat 33° 51' 58", long 89° 10' 23", in NE1/4 NE1/4 sec. 15, T. 14 S., R. 1E., Choctaw Meridian, Calhoun County, Hydrologic Unit 08030205, at downstream side of bridge on State Highway 341, 0.8 mi south of Vardaman, 1.1 mi upstream of Cane Creek, and 6.0 mi north of Atlanta.

DRAINAGE AREA.--86.3 mi².

PERIOD OF RECORD.--May 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 267.42 ft above sea level (levels by Mississippi Department of Transportation).

REMARKS.--May to September 1998: Estimated daily discharges: May 20 - Jun. 10 Records fair except for estimated daily discharges, which are poor.

Water Year 1999: Estimated daily discharges: Oct. 11 - Nov. 4, Nov. 20 - Dec. 8, and Dec. 10-14. Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,590 ft³/s, June 28, 1999, gage height, 29.93 ft; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	e28	.02	.87	.08
2	---	---	---	---	---	---	---	---	e19	.01	.37	.08
3	---	---	---	---	---	---	---	---	e14	.01	.14	.06
4	---	---	---	---	---	---	---	---	e9.5	.00	.07	.03
5	---	---	---	---	---	---	---	---	e60	.00	.07	.04
6	---	---	---	---	---	---	---	---	e265	.00	.02	.04
7	---	---	---	---	---	---	---	---	e62	.00	.10	.03
8	---	---	---	---	---	---	---	---	e27	.00	811	.03
9	---	---	---	---	---	---	---	---	e16	.69	427	.02
10	---	---	---	---	---	---	---	---	e10	12	53	.01
11	---	---	---	---	---	---	---	---	7.7	11	13	.01
12	---	---	---	---	---	---	---	---	3.6	6.6	51	.02
13	---	---	---	---	---	---	---	---	4.5	3.2	112	.02
14	---	---	---	---	---	---	---	---	2.4	8.2	213	.03
15	---	---	---	---	---	---	---	---	16	2.6	230	.05
16	---	---	---	---	---	---	---	---	17	11	241	.57
17	---	---	---	---	---	---	---	---	5.3	2.9	54	.36
18	---	---	---	---	---	---	---	---	2.9	.45	18	.13
19	---	---	---	---	---	---	---	---	1.4	.12	9.5	.09
20	---	---	---	---	---	---	---	e.52	.87	.05	5.8	.18
21	---	---	---	---	---	---	---	e.45	.56	.01	4.1	.31
22	---	---	---	---	---	---	---	e.40	.40	.01	2.1	.18
23	---	---	---	---	---	---	---	e.36	.38	.01	1.3	.14
24	---	---	---	---	---	---	---	e.32	.15	10	.83	.17
25	---	---	---	---	---	---	---	e.29	.12	183	.69	.13
26	---	---	---	---	---	---	---	e.26	3.9	65	.56	.09
27	---	---	---	---	---	---	---	e.24	.63	8.2	.41	.17
28	---	---	---	---	---	---	---	e1.0	.20	80	.27	.12
29	---	---	---	---	---	---	---	e1750	.06	52	.30	.08
30	---	---	---	---	---	---	---	e400	.03	8.5	.18	.06
31	---	---	---	---	---	---	---	e90	---	2.6	.14	---
TOTAL	---	---	---	---	---	---	---	---	578.60	468.18	2250.82	3.33
MEAN	---	---	---	---	---	---	---	---	19.3	15.1	72.6	.11
MAX	---	---	---	---	---	---	---	---	265	183	811	.57
MIN	---	---	---	---	---	---	---	---	.03	.00	.02	.01
MED	---	---	---	---	---	---	---	---	4.2	2.6	1.3	.08
CFSM	---	---	---	---	---	---	---	---	.22	.18	.84	.00
IN.	---	---	---	---	---	---	---	---	.25	.20	.97	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 1998, BY WATER YEAR (WY)

	1998	1998	1998	1998
MEAN	---	---	---	---
MAX	---	---	---	---
(WY)	---	---	---	---
MIN	---	---	---	---
(WY)	---	---	---	---

e Estimated

YAZOO RIVER BASIN

07281960 YALOBUSHA RIVER AT VARDAMAN, MS--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	e.09	e2.1	57	346	146	28	15	14	489	5.1	.57
2	.03	e.09	e1.7	900	147	70	23	9.5	5.3	63	4.0	.71
3	167	e.10	e1.5	694	83	505	18	5.3	2.8	30	2.8	.55
4	28	e.13	e1.4	176	53	156	699	3.4	1.6	22	2.3	.65
5	5.6	.17	e1.3	69	33	69	322	68	.95	19	1.9	.91
6	1.2	.24	e1.2	48	22	1250	2060	1050	.75	18	1.4	.65
7	.80	.51	e1.1	48	23	510	577	215	.69	17	1.6	.52
8	.39	1.3	e18	463	23	145	111	41	.56	19	1.5	20
9	.20	.93	32	1720	17	1120	49	17	.61	115	1.3	13
10	.13	5.9	e20	627	283	339	28	10	.64	47	1.6	2.4
11	e.10	4.3	e110	167	140	104	18	7.8	.39	517	1.3	1.2
12	e.08	2.9	e2550	97	76	57	12	6.8	225	803	1.1	.78
13	e.07	2.9	e1600	61	47	1340	9.9	8.7	329	96	.84	.56
14	e.06	373	e450	106	28	1390	16	7.2	240	25	.87	.42
15	e.05	241	81	94	19	503	884	3.2	670	13	.99	.34
16	e.05	37	46	52	16	126	206	2.1	171	11	.82	.62
17	e.04	16	28	37	239	64	52	1.8	18	6.9	.72	.42
18	e.04	9.9	19	68	211	39	25	1.8	7.9	5.4	.66	.66
19	e.05	7.5	22	61	87	27	15	5.4	3.7	4.3	.84	.41
20	e.05	e11	25	38	45	23	11	.69	2.1	2.6	.87	.28
21	e.06	e12	21	29	28	32	7.6	.59	1.4	2.2	1.0	.18
22	e.06	e9.5	425	1760	19	25	5.2	.86	.98	1.9	.88	.12
23	e.07	e8.0	361	4270	15	18	3.6	1.0	116	1.6	.76	.11
24	e.07	e7.2	1630	1270	13	35	164	.68	495	1.4	224	.14
25	e.07	e5.8	510	171	12	49	1030	.59	671	1.5	21	.11
26	e.08	e4.8	167	94	12	34	738	.63	605	16	8.8	.09
27	e.08	e4.0	157	65	191	21	481	.63	2640	20	4.4	.08
28	e.07	e3.5	1710	47	565	15	137	.92	3710	26	2.9	.08
29	e.08	e3.0	732	813	---	16	40	1.6	600	18	1.8	.32
30	e.08	e2.5	172	1610	---	23	21	8.6	2040	11	1.2	.46
31	e.09	---	87	976	---	35	---	9.5	---	7.1	.79	---
TOTAL	204.79	775.26	10983.3	16688	2793	8286	7791.3	1505.29	12574.37	2429.9	300.04	47.34
MEAN	6.61	25.8	354	538	99.8	267	260	48.6	419	78.4	9.68	1.58
MAX	167	373	2550	4270	565	1390	2060	1050	3710	803	224	20
MIN	.03	.09	1.1	29	12	15	3.6	.59	.39	1.4	.66	.08
MED	.07	4.2	46	97	39	64	34	5.3	11	18	1.3	.49
CFSM	.08	.30	4.11	6.24	1.16	3.10	3.01	.56	4.86	.91	.11	.02
IN.	.09	.33	4.73	7.19	1.20	3.57	3.36	.65	5.42	1.05	.13	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 1999, BY WATER YEAR (WY)

MEAN	6.61	25.8	354	538	99.8	267	260	48.6	219	46.7	41.1	.84
MAX	6.61	25.8	354	538	99.8	267	260	48.6	419	78.4	72.6	1.58
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1998	1999
MIN	6.61	25.8	354	538	99.8	267	260	48.6	19.3	15.1	9.68	.11
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1998	1998	1999	1998

SUMMARY STATISTICS

FOR 1999 WATER YEAR

WATER YEARS 1998 - 1999

ANNUAL TOTAL	64378.59		
ANNUAL MEAN	176		176
HIGHEST ANNUAL MEAN			176
LOWEST ANNUAL MEAN			176
HIGHEST DAILY MEAN	4270	Jan 23	4270
LOWEST DAILY MEAN	.03	Oct 2	.00
ANNUAL SEVEN-DAY MINIMUM	.05	Oct 14	.00
INSTANTANEOUS PEAK FLOW	4590	Jun 28	4590
INSTANTANEOUS PEAK STAGE	29.93	Jun 28	29.93
INSTANTANEOUS LOW FLOW	.02	Oct 2	.00
ANNUAL RUNOFF (CFSM)	2.04		2.04
ANNUAL RUNOFF (INCHES)	27.75		27.77
10 PERCENT EXCEEDS	513		400
50 PERCENT EXCEEDS	14		7.1
90 PERCENT EXCEEDS	.18		.08

e Estimated

07281977 YALOBUSHA RIVER NEAR DERMA, MS

LOCATION.--Lat 33°50'16", long 89°16'33", in NW¹/₄ NW¹/₄ sec.26, T.14 S., R.1 W., Chickasaw Meridian, Calhoun County, Hydrologic Unit 08030205, on the right bank at downstream side of bridge on county road, 1.3 mi south of Derma, and 2.4 mi upstream of 07282000 Yalobusha River at Calhoun City.

DRAINAGE AREA.--160 mi².

PERIOD OF DAILY RECORD.--

DISCHARGE: May 1998 to current year.

SUSPENDED SEDIMENT CONCENTRATION: May 1998 to current year.

SUSPENDED SEDIMENT DISCHARGE: May 1998 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 226.02 ft above sea level. Automatic pumping sediment sampler since May 1998.

REMARKS.--Estimated daily discharge: Oct. 3-4, 7-9, 11-14, July 25-28, Aug. 7-9, 29-30. Discharge records fair except for estimated daily discharges, which are poor. Satellite telemeter at station. Channel rectification was completed in 1967.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 10,200 ft³/s, Jan. 23, 1999, maximum gage height, 31.36 ft, Jan. 23, 1999; minimum, 0.46 ft³/s, Oct. 2, 1998.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 1,210 mg/L, May 29, 1998; minimum daily mean, 24 mg/L, Sept. 3, 1999.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 17,000 tons, Jan. 22, 1999; minimum daily, 0.06 ton, Oct. 17-20, 1998.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 10,200 ft³/s, Jan. 23, gage height, 31.36 ft; minimum, 0.46 ft³/s, Oct. 2.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 1,040 mg/L, June 27; minimum daily mean, 24 mg/L, Sept. 3.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 17,000 tons, Jan. 22; minimum daily, 0.06 ton, Oct. 17-20.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

		DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)					
		DATE	TIME				
		JUN					
		17...	1230	4.3			
		BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)
DATE	TIME	% FINER THAN .062 MM (80164)	% FINER THAN .125 MM (80165)	% FINER THAN .250 MM (80166)	% FINER THAN .500 MM (80167)	% FINER THAN 1.00 MM (80168)	
JUN							
17...	1232	9	22	66	88	99	25.0
17...	1234	1	2	18	74	99	50.0
17...	1236	9	27	87	100	--	75.0

YAZOO RIVER BASIN

07281977 YALOBUSHA RIVER NEAR DERMA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	---	---	---	---	---	---	69	97	18
2	---	---	---	---	---	---	37	86	8.7
3	---	---	---	---	---	---	26	81	5.6
4	---	---	---	---	---	---	21	80	4.4
5	---	---	---	49	78	10	567	1120	4680
6	---	---	---	38	77	7.9	406	714	1030
7	---	---	---	27	75	5.5	27	95	58
8	---	---	---	29	73	5.7	44	133	16
9	---	---	---	22	71	4.2	29	109	8.6
10	---	---	---	17	70	3.2	22	97	5.9
11	---	---	---	14	68	2.6	17	87	4.1
12	---	---	---	12	66	2.1	14	78	2.9
13	---	---	---	10	65	1.8	11	72	2.2
14	---	---	---	9.0	63	1.5	9.7	68	1.8
15	---	---	---	8.0	62	1.3	10	101	3.2
16	---	---	---	7.0	60	1.1	19	832	43
17	---	---	---	6.2	59	1.0	13	541	19
18	---	---	---	5.8	57	.89	8.9	323	7.8
19	---	---	---	5.2	59	.83	7.6	196	4.1
20	---	---	---	4.8	63	.82	6.2	148	2.5
21	---	---	---	4.2	66	.71	4.9	126	1.7
22	---	---	---	4.0	71	.76	3.9	108	1.1
23	---	---	---	3.6	73	.71	3.1	104	.88
24	---	---	---	3.2	76	.65	2.6	106	.75
25	---	---	---	2.8	78	.60	2.2	105	.63
26	---	---	---	2.6	79	.55	1.9	102	.53
27	---	---	---	2.4	79	.51	1.8	97	.47
28	---	---	---	51	123	60	1.6	91	.39
29	---	---	---	3120	1210	9550	1.4	86	.33
30	---	---	---	998	244	763	1.3	80	.28
31	---	---	---	167	137	64	---	---	---
JULY			AUGUST			SEPTEMBER			
1	1.3	89	.32	4.3	143	1.6	1.1	57	.17
2	1.3	93	.34	3.0	160	1.3	1.1	55	.16
3	1.3	80	.28	2.2	179	1.1	1.0	55	.15
4	1.2	81	.27	1.8	212	1.0	1.0	58	.15
5	1.1	87	.27	1.4	198	.77	.94	62	.16
6	1.2	95	.31	1.4	100	.38	.83	66	.15
7	1.3	97	.33	2.6	78	.54	.77	69	.14
8	1.2	97	.31	1580	1030	7410	.68	74	.14
9	1.3	98	.35	598	275	529	.57	79	.12
10	85	508	462	108	107	33	.53	84	.12
11	159	674	358	34	88	8.1	.53	89	.13
12	60	291	48	73	141	55	.56	88	.13
13	35	207	21	132	185	72	.59	84	.13
14	21	155	8.8	105	175	102	.58	81	.13
15	14	157	6.1	284	219	214	.58	74	.12
16	19	162	12	289	201	175	.57	68	.10
17	20	237	12	76	102	22	.55	66	.10
18	11	228	5.2	31	78	6.6	.52	67	.09
19	6.2	175	2.4	18	70	3.4	.48	67	.09
20	4.3	145	1.4	12	63	2.1	.45	68	.08
21	3.0	105	.85	9.0	58	1.4	.48	70	.09
22	2.2	97	.58	6.6	56	.99	.51	68	.09
23	1.8	92	.45	5.1	55	.76	.50	66	.09
24	8.8	151	7.0	4.1	55	.61	.46	64	.08
25	98	361	148	3.4	56	.51	.42	63	.07
26	55	336	54	3.0	57	.45	.39	66	.07
27	17	167	7.8	2.5	57	.39	.37	72	.07
28	11	162	5.4	2.0	57	.31	.46	79	.10
29	22	315	19	1.7	57	.26	.62	79	.13
30	12	210	7.0	1.4	58	.22	.65	77	.14
31	6.8	147	2.7	1.2	58	.19	---	---	---

07281977 YALOBUSHA RIVER NEAR DERMA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	.63	78	.13	.84	58	.13	3.2	39	.34
2	.52	84	.12	1.2	65	.21	2.9	38	.30
3	111	457	137	1.3	72	.26	2.8	37	.28
4	34	262	24	1.4	78	.29	2.7	36	.26
5	9.1	143	3.7	1.4	70	.27	2.6	36	.25
6	3.9	106	1.1	1.3	59	.21	2.6	35	.25
7	2.8	86	.65	1.2	44	.15	7.5	94	2.6
8	2.1	72	.41	1.7	41	.19	25	140	9.9
9	1.5	62	.25	2.6	43	.30	35	91	8.9
10	1.2	54	.18	3.6	49	.50	26	88	6.8
11	1.1	52	.15	6.5	77	1.4	152	267	112
12	1.0	53	.14	6.1	67	1.1	4230	847	10900
13	.89	48	.11	5.2	54	.76	2560	356	2420
14	.82	42	.09	434	610	1380	618	245	474
15	.72	39	.08	309	343	369	131	93	34
16	.67	37	.07	57	93	15	60	63	10
17	.64	36	.06	24	61	4.0	39	57	5.9
18	.62	34	.06	13	48	1.7	28	52	3.9
19	.66	33	.06	8.8	40	.94	30	64	5.3
20	.66	36	.06	11	74	2.7	34	65	6.0
21	.65	42	.07	18	152	7.6	28	57	4.2
22	.69	42	.08	14	92	3.5	572	430	793
23	.67	39	.07	10	67	1.8	447	162	312
24	.66	38	.07	7.9	54	1.2	2800	713	6380
25	.65	37	.07	6.8	60	1.1	787	155	353
26	.67	37	.07	6.1	53	.87	262	84	60
27	.67	36	.07	5.2	44	.62	167	88	40
28	.70	37	.07	4.5	42	.51	3000	746	7590
29	.73	41	.08	4.0	41	.44	1130	206	628
30	.77	46	.10	3.5	40	.38	361	106	112
31	.79	51	.11	---	---	---	145	67	26
JANUARY			FEBRUARY			MARCH			
1	91	83	24	523	174	260	204	109	63
2	1540	512	2520	227	111	69	116	108	42
3	1090	188	616	136	80	30	828	382	949
4	345	78	76	95	75	19	265	89	67
5	137	51	19	72	72	14	128	105	34
6	92	41	10	62	67	11	1970	629	3790
7	81	40	8.7	62	61	10	688	132	266
8	667	634	1800	57	55	8.6	211	84	50
9	3090	914	8990	50	57	7.8	1690	447	2330
10	955	176	477	387	490	586	513	198	295
11	362	91	92	212	174	109	186	120	61
12	192	64	33	92	89	22	113	100	30
13	126	48	16	67	70	13	2180	704	5020
14	140	172	68	49	58	7.7	2320	300	1780
15	120	91	30	41	48	5.3	779	184	447
16	86	62	15	38	44	4.5	243	74	49
17	71	55	10	229	267	247	137	52	19
18	104	105	30	231	150	100	94	47	12
19	89	72	17	119	71	23	71	45	8.7
20	70	60	11	74	59	12	64	53	9.4
21	61	59	9.7	56	53	8.0	78	66	14
22	3130	933	17000	45	47	5.8	61	47	7.7
23	9380	444	11400	40	43	4.7	50	41	5.6
24	3680	274	2870	38	41	4.2	57	47	7.6
25	533	170	260	36	42	4.0	78	62	13
26	192	93	49	35	44	4.1	66	52	9.3
27	113	70	21	282	192	541	47	49	6.2
28	83	65	15	815	303	788	38	46	8
29	1460	636	7160	---	---	---	39	44	4.7
30	3020	581	5040	---	---	---	45	44	5.4
31	1440	365	1440	---	---	---	49	45	5.9

YAZOO RIVER BASIN

07281977 YALOBUSHA RIVER NEAR DERMA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	52	44	6.1	30	49	4.0	39	418	49
2	42	42	4.8	23	44	2.7	24	243	16
3	36	46	4.5	17	40	1.9	14	152	5.7
4	987	593	1840	15	38	1.5	8.8	106	2.5
5	405	118	142	33	60	22	6.4	83	1.4
6	4170	962	14100	1470	664	3100	5.1	72	1.0
7	1010	246	701	410	127	155	4.4	65	.76
8	247	131	91	112	81	25	3.9	58	.62
9	122	76	26	42	69	7.9	3.7	52	.52
10	74	59	12	25	59	3.9	3.9	50	.52
11	51	53	7.2	17	53	2.4	4.9	49	.66
12	35	47	4.4	17	49	2.2	87	265	138
13	27	49	3.6	26	60	4.3	136	276	102
14	24	63	4.7	17	40	1.8	178	673	841
15	1180	714	2820	12	34	1.1	629	892	1900
16	304	109	100	9.5	32	.82	160	178	88
17	102	68	19	7.8	30	.63	37	85	8.8
18	53	56	8.0	6.8	40	.73	18	57	2.7
19	36	47	4.5	6.2	43	.72	11	50	1.5
20	28	44	3.3	5.7	43	.66	10	48	1.3
21	22	45	2.7	4.9	42	.55	7.9	46	.99
22	18	44	2.2	4.4	39	.47	5.8	43	.68
23	15	43	1.7	4.2	36	.41	13	81	8.1
24	92	121	160	4.0	34	.37	272	621	600
25	1340	782	3110	3.6	35	.34	471	500	674
26	1130	335	1090	3.3	39	.35	397	522	628
27	781	322	722	3.1	39	.33	3730	1040	14900
28	213	150	91	2.9	37	.30	7250	301	5970
29	77	90	19	2.9	38	.30	1820	188	918
30	44	57	6.9	7.3	92	1.9	2780	815	7290
31	---	---	---	12	136	4.4	---	---	---
JULY			AUGUST			SEPTEMBER			
1	623	202	376	4.6	61	.76	1.4	27	.10
2	120	109	37	4.2	64	.73	1.3	25	.09
3	54	76	11	3.8	64	.66	1.2	24	.08
4	32	59	5.2	3.5	62	.59	1.1	25	.07
5	23	46	2.9	3.3	58	.51	1.1	26	.08
6	18	39	1.8	3.0	54	.44	1.1	30	.09
7	14	33	1.3	2.9	49	.38	1.1	59	.17
8	26	39	2.8	2.9	45	.35	1.2	133	.49
9	77	166	60	2.8	41	.31	6.6	262	4.8
10	65	123	26	2.8	34	.31	6.4	209	3.7
11	320	688	2010	2.8	41	.31	4.5	152	1.9
12	868	482	1410	2.7	48	.35	3.7	111	1.1
13	80	186	45	2.5	54	.37	3.2	82	.71
14	21	92	5.3	2.4	57	.37	2.8	62	.47
15	9.0	68	1.7	2.2	59	.35	2.4	48	.31
16	5.6	53	.80	2.0	61	.34	2.2	40	.23
17	4.3	50	.57	1.9	59	.30	1.9	75	.39
18	3.5	51	.49	1.8	55	.27	1.8	65	.31
19	3.1	52	.44	1.7	57	.27	1.7	48	.22
20	2.8	57	.43	1.6	60	.26	1.6	37	.16
21	2.5	61	.41	1.6	61	.26	1.5	35	.14
22	2.3	56	.36	1.6	63	.27	1.5	35	.14
23	2.2	51	.30	1.6	64	.27	1.4	42	.16
24	2.1	49	.27	254	564	1040	1.3	51	.19
25	2.0	49	.26	45	226	41	1.3	55	.19
26	4.0	106	1.1	6.7	59	1.1	1.3	57	.20
27	23	319	20	3.8	36	.38	1.3	58	.21
28	7.0	71	1.3	2.9	33	.26	1.3	59	.21
29	9.4	81	2.1	2.1	33	.19	2.0	205	1.2
30	6.7	67	1.2	1.7	32	.14	3.0	94	.76
31	5.3	61	.88	1.5	32	.13	---	---	---

07281999 YALOBUSHA RIVER AT CALHOUN CITY, MS

LOCATION.--Lat 33°50'19", long 89°18'56", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.23 N., R.9 E., Choctaw Meridian, Calhoun County, Hydrologic Unit 08030205, at downstream side of bridge on State Highways 8 & 9, 0.8 mi upstream from Topashaw Creek, 1.2 mi South of Calhoun City, 1.5 mi upstream from old channel, and 4.8 mi upstream from Topashaw Creek Canal.

DRAINAGE AREA.--194 mi², approximately.

PERIOD OF RECORD.--Water years 1970, 1972, 1997 to current year.

PERIOD OF DAILY RECORD.--

DISCHARGE: October 1950 to current year.

SUSPENDED SEDIMENT CONCENTRATION: October 1996 to January 1998.

SUSPENDED SEDIMENT DISCHARGE: October 1996 to January 1998.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 226.06 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Jan. 1, 1972, datum of gage was 10.00 ft higher. Prior to Nov. 15, 1950, nonrecording gage at site 75 ft downstream at same datum. Automatic pumping sediment sampler from October 1996 to January 1998.

REMARKS.--Estimated daily discharge: Apr. 14-May 3, 5-23, 26-27, 30-June 9, 13-Sept. 30. Discharge records poor. Flow intermingles with Topashaw Creek Canal when stage is above bank full. Channel rectification was completed in 1967. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: No flow at times during several years.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 1,530 mg/L, May 24, 1997; minimum daily mean, 25 mg/L, July 26, 1997.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 40,400 tons, May 3, 1997; minimum daily, 0.49 ton, Oct. 10-11, 1997.

REVISIONS.--Revised figures of mean discharge and sediment discharge for the water year 1997, superseding those published in the report for 1998 are given below.

DISCHARGE: Maximum gage height, 23.95 ft, May. 3; minimum daily discharge, 6.6 ft³/s, Sept. 22.

YAZOO RIVER BASIN

07281999 YALOBUSHA RIVER AT CALHOUN CITY, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	73	107	21	180	125	163	3930	733	8510
2	50	101	14	894	367	921	1490	227	961
3	50	99	13	438	193	236	627	131	227
4	42	97	11	220	107	65	351	80	77
5	34	96	8.6	118	89	28	278	65	51
6	29	94	7.4	81	80	17	372	70	71
7	25	93	6.4	394	166	421	602	152	260
8	23	91	5.5	1100	257	820	461	120	153
9	20	90	4.8	522	148	212	274	69	52
10	18	88	4.4	245	110	74	185	62	31
11	17	87	3.9	114	82	25	145	58	23
12	15	86	3.5	61	68	11	139	82	32
13	14	84	3.2	37	64	6.5	154	181	75
14	14	83	3.1	27	61	4.4	114	134	41
15	13	82	2.9	20	57	3.0	93	97	24
16	13	81	2.8	14	54	2.1	2020	472	5680
17	13	81	2.7	13	58	2.2	6370	477	9320
18	14	83	3.1	309	272	278	1830	168	863
19	15	84	3.4	425	286	335	579	103	167
20	15	74	3.0	154	192	82	233	68	44
21	13	57	2.1	89	129	31	124	60	20
22	14	57	2.2	72	93	18	87	54	13
23	23	67	4.2	47	82	10	62	50	8.4
24	25	65	4.4	32	74	6.5	301	108	102
25	22	62	3.6	384	505	794	266	107	78
26	43	119	16	436	451	559	567	160	620
27	84	150	34	149	203	87	2990	383	3340
28	62	82	14	68	104	20	1150	135	436
29	44	58	7.0	42	58	6.7	602	115	186
30	34	55	5.1	3110	608	6760	505	85	118
31	27	53	3.9	---	---	---	461	67	84
JANUARY			FEBRUARY			MARCH			
1	325	75	65	288	59	46	987	132	362
2	212	73	41	225	51	31	3720	838	15300
3	153	85	35	294	77	65	16400	682	28900
4	129	75	26	372	86	86	6990	256	5200
5	1100	322	1090	298	96	76	1700	331	1780
6	597	126	207	183	85	42	1680	266	1340
7	1260	226	828	298	111	169	812	114	256
8	1320	244	1280	1280	283	1020	572	83	128
9	2220	300	1970	603	150	250	477	75	97
10	910	116	298	359	119	113	693	102	192
11	439	67	82	233	79	50	595	94	152
12	243	53	38	171	68	31	436	74	88
13	156	56	25	1520	344	1800	396	65	70
14	119	58	19	1310	169	649	654	98	177
15	650	249	1320	588	71	116	548	88	133
16	1640	526	2550	357	57	54	372	69	70
17	593	152	265	230	60	37	286	64	49
18	292	69	67	171	54	25	280	64	49
19	202	63	37	133	59	21	871	165	403
20	172	62	29	111	48	14	646	115	205
21	128	61	21	1190	384	1550	440	68	81
22	281	103	97	852	157	381	316	64	55
23	427	190	234	394	122	127	223	63	38
24	5320	990	13900	208	87	50	189	62	32
25	2110	314	1820	155	63	26	153	64	26
26	802	181	413	241	84	57	134	65	23
27	405	130	149	1960	524	2960	105	64	18
28	3360	709	6830	2020	329	1880	105	63	18
29	1300	181	661	---	---	---	101	65	18
30	592	103	167	---	---	---	85	66	15
31	393	82	88	---	---	---	69	67	12

YAZOO RIVER BASIN

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07281999 YALOBUSHA RIVER AT CALHOUN CITY, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	53	58	8.4	83	63	14	1660	292	1310
2	39	49	5.1	2240	259	1570	1500	303	1230
3	30	56	4.5	17800	840	40400	867	174	407
4	26	93	6.6	9820	308	9010	481	86	112
5	1040	857	3780	1630	207	911	339	67	61
6	995	329	1020	608	130	213	1450	292	1150
7	426	100	118	371	108	108	835	84	189
8	188	81	41	258	78	54	419	51	58
9	117	69	22	228	67	41	2400	559	3620
10	72	60	12	203	56	31	2670	324	2390
11	49	54	7.1	130	47	16	4410	461	5580
12	50	53	7.1	93	40	10	2680	258	1890
13	50	53	7.2	68	41	7.5	1990	124	666
14	40	53	5.7	60	44	7.1	651	58	102
15	30	52	4.2	50	40	5.4	570	65	100
16	29	51	4.0	42	35	4.0	340	77	71
17	28	50	3.8	36	32	3.1	3130	375	4540
18	22	48	2.8	30	33	2.7	1910	220	1130
19	23	44	2.7	40	36	3.9	786	92	195
20	30	40	3.2	54	37	5.4	371	47	47
21	35	37	3.5	46	36	4.5	2350	360	2280
22	50	103	14	37	36	3.6	920	140	348
23	119	176	56	50	39	5.3	505	92	125
24	45	96	12	3140	1530	22200	576	140	218
25	36	63	6.1	5870	642	11700	317	56	48
26	40	54	5.8	1480	262	1050	213	47	27
27	481	162	210	1940	645	3380	218	60	35
28	875	223	527	4870	684	9570	555	251	376
29	733	186	368	3300	404	3620	864	149	347
30	286	86	66	1430	179	691	529	78	111
31	---	---	---	2010	560	3040	---	---	---
JULY			AUGUST			SEPTEMBER			
1	253	59	40	50	75	10	17	94	4.3
2	114	56	17	30	56	4.5	16	123	5.3
3	61	44	7.2	23	46	2.8	17	99	4.5
4	37	33	3.3	18	38	1.8	16	39	1.7
5	24	26	1.7	15	34	1.4	15	45	1.8
6	20	25	1.4	13	32	1.1	14	47	1.8
7	116	32	10	12	37	1.2	13	47	1.6
8	166	69	31	11	44	1.3	12	46	1.5
9	270	90	66	13	50	1.8	12	39	1.3
10	353	91	87	14	56	2.1	14	32	1.2
11	563	132	200	17	66	3.0	14	37	1.4
12	339	91	83	385	142	149	13	49	1.7
13	506	269	367	775	105	220	12	51	1.6
14	792	360	770	366	65	64	11	48	1.4
15	292	134	106	292	67	53	10	45	1.2
16	118	54	17	105	66	19	9.6	40	1.0
17	57	41	6.3	48	65	8.4	9.0	38	.92
18	35	40	3.8	37	61	6.1	8.4	45	1.0
19	29	40	3.1	38	51	5.2	7.9	54	1.2
20	24	40	2.6	108	50	15	7.4	53	1.1
21	20	41	2.2	402	73	79	7.0	51	.96
22	57	84	13	124	49	16	6.6	50	.89
23	268	164	119	54	43	6.3	6.7	65	1.2
24	100	112	30	38	43	4.4	8.9	75	1.8
25	42	83	9.4	31	42	3.5	589	417	663
26	27	71	5.2	26	49	3.4	681	163	300
27	20	61	3.3	23	59	3.7	198	71	38
28	16	53	2.3	20	53	2.9	69	53	9.9
29	33	59	5.3	20	45	2.4	45	41	5.0
30	454	604	740	18	55	2.7	33	36	3.2
31	166	151	68	17	72	3.3	---	---	---

YAZOO RIVER BASIN

07282000 YALOBUSHA RIVER AND TOPASHAW CREEK CANAL AT CALHOUN CITY, MS
(Previously published as Yalobusha River at Calhoun City, MS)

LOCATION.--Lat 33°50'19", long 89°18'56", in SE1/4 SE1/4 sec.23, T.23 N., R.9 E., Choctaw Meridian, Calhoun County, Hydrologic Unit 08030205, at downstream side of bridge on State Highway 9, 0.8 mi upstream from Topashaw Creek, 1.2 mi south of Calhoun City, 1.5 mi upstream from old channel, and 4.8 mi upstream from Topashaw Creek Canal. Records include flow in Topashaw Creek Canal and all supplemental channels.

DRAINAGE AREA.--295 mi², combined drainage area of all channels.

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1997, published as Yalobusha River at Calhoun City.

REVISED RECORDS.--WRD Miss. 1970: 1969(M). WDR MS-78-1: 1977(P). WDR MS-92: 1983-85. WDR MS-98-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 226.06 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to Jan. 1, 1972, datum of gage was 10.00 ft higher. Prior to Nov. 15, 1950, nonrecording gage at site 75 ft downstream at same datum. Water-stage recorder on Topashaw Creek canal, 2.5 mi southwest of base gage. Prior to Aug. 16, 1963, nonrecording gage and crest-stage gage on Topashaw Creek Canal.

REMARKS.--No estimated daily discharge. Records fair. Discharge computed by combining the flow of individually rated Yalobusha River and Topashaw Creek Canal. Channel rectification of both Yalobusha River and Topashaw Creek was completed in 1967. U. S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec. 12	1600	14,200	21.19	Apr. 6	0800	12,800	21.55
Jan. 23	0245	*23,800	*23.26	Jun. 27	1915	18,300	21.50
Jan. 29	2230	12,500	20.66	Jun. 28	0700	(a)	21.92

a Affected by intermingling flow.

REVISIONS.--Revised discharges for water year 1997 are given below. These figures supersede those published in the 1997 report.

Peak discharges greater than base discharge of 11,000 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec. 17	0030	13,700	21.24	May 24	2230	16,000	21.42
Mar. 3	0615	24,600	23.15	May 28	0800	11,200	20.67
May 3	----	*28,800	*23.95				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	264	4970	426	409	1470	84	129	2430	323	73	23
2	61	1310	2010	288	327	6010	65	2870	2210	158	45	22
3	61	554	814	216	414	21200	53	23700	1260	95	34	23
4	52	261	434	188	516	8290	47	11300	639	65	27	22
5	42	139	345	1630	419	2440	1380	2270	443	46	23	21
6	36	94	459	804	272	2370	1500	796	2140	38	20	19
7	32	547	788	1790	465	1120	503	465	1170	161	19	18
8	29	1510	579	2290	1880	742	254	327	541	222	18	17
9	26	642	340	3380	853	603	158	291	3040	344	20	17
10	23	285	233	1280	499	947	108	260	3840	462	21	19
11	22	134	186	579	336	776	79	175	6160	781	26	19
12	20	72	180	328	256	551	80	132	3660	429	605	18
13	19	45	197	222	2250	501	80	100	2480	697	1180	16
14	18	33	149	176	1870	857	66	87	863	1060	444	15
15	17	25	122	1030	831	704	51	75	741	363	355	14
16	17	19	3150	2320	496	468	47	64	436	157	135	14
17	17	18	8530	796	332	362	44	55	4030	85	67	13
18	18	370	2460	386	256	355	35	46	2630	57	52	12
19	20	511	776	277	209	1200	36	54	1080	47	53	11
20	20	190	313	239	182	850	41	74	475	39	137	11
21	18	115	181	186	1780	555	47	70	4000	33	490	10
22	19	94	135	380	1230	398	78	57	1320	84	156	9.8
23	29	61	104	558	548	287	170	65	660	331	73	9.9
24	32	42	397	7160	305	247	74	4790	786	134	52	13
25	28	482	352	2920	238	204	55	7900	410	64	42	820
26	53	532	881	1130	349	182	56	2110	282	42	35	973
27	105	187	4400	561	2800	148	757	2660	290	32	31	233
28	77	89	1600	4970	2880	148	1200	6960	722	25	28	85
29	55	56	810	1870	---	143	996	6290	1180	49	27	55
30	42	4840	666	848	---	124	375	2100	684	559	25	41
31	34	---	602	549	---	104	---	3550	---	210	24	---
TOTAL	1130	13521	37163	39777	23202	54356	8519	79822	50602	7192	4337	2593.7
MEAN	36.5	451	1199	1283	829	1753	284	2575	1687	232	140	86.5
MAX	105	4840	8530	7160	2880	21200	1500	23700	6160	1060	1180	973
MIN	17	18	104	176	182	104	35	46	282	25	18	9.8
CFSM	.12	1.53	4.06	4.35	2.81	5.94	.96	8.73	5.72	.79	.47	.29
IN.	.14	1.71	4.69	5.02	2.93	6.85	1.07	10.07	6.38	.91	.55	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1997, BY WATER YEAR (WY)

	MEAN	48.1	276	634	696	861	987	802	461	226	113	52.3	62.3
MAX	622	2827	4402	2400	2409	3583	3418	3696	1815	948	335	857	
(WY)	1976	1958	1983	1974	1991	1980	1991	1991	1989	1979	1996	1979	
MIN	.15	.99	3.59	11.5	66.1	83.2	15.9	7.45	.38	1.26	.80	.000	
(WY)	1954	1982	1966	1956	1963	1954	1986	1988	1988	1954	1951	1952	

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1951 - 1997
ANNUAL TOTAL	194010.0	322214.7	
ANNUAL MEAN	530	883	433
HIGHEST ANNUAL MEAN			1171
LOWEST ANNUAL MEAN			78.6
HIGHEST DAILY MEAN	13200	Apr 23	50800
LOWEST DAILY MEAN	6.0	May 27	.00
ANNUAL SEVEN-DAY MINIMUM	8.7	May 21	.00
INSTANTANEOUS PEAK FLOW			70100
INSTANTANEOUS PEAK STAGE			25.75
ANNUAL RUNOFF (CFSM)	1.80		1.47
ANNUAL RUNOFF (INCHES)	24.46		19.93
10 PERCENT EXCEEDS	1300	2300	920
50 PERCENT EXCEEDS	142	238	41
90 PERCENT EXCEEDS	20	21	2.0

a From floodmark.

07282000 YALOBUSHA RIVER AND TOPASHAW CREEK CANAL AT CALHOUN CITY, MS--Continued
(Previously published as Yalobusha River at Calhoun City, MS)DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	3.5	9.9	183	2120	735	98	30	112	2290	12	4.8
2	5.4	4.6	9.5	3360	972	427	78	24	60	585	11	4.4
3	522	5.3	9.1	2990	481	3240	65	22	29	205	9.8	4.2
4	83	5.3	8.7	995	298	1440	2450	20	20	103	8.9	3.9
5	24	5.4	8.5	299	207	465	1370	54	16	65	8.3	3.8
6	13	5.2	8.4	188	167	3820	8170	4180	13	46	7.8	3.9
7	11	5.1	15	159	164	2560	3160	1650	12	36	7.4	3.7
8	9.6	5.8	41	1500	150	1440	1240	581	11	65	7.1	3.9
9	8.1	7.0	55	6500	125	4020	363	245	10	193	6.9	15
10	7.1	8.3	40	2790	612	2020	175	149	11	189	7.3	12
11	6.3	12	294	1060	462	806	112	106	13	612	7.2	8.6
12	5.8	12	8810	449	273	384	73	103	248	2180	6.9	7.1
13	5.4	10	5380	271	184	4410	55	150	425	354	6.7	6.2
14	5.1	1020	1720	285	120	5210	52	103	650	82	6.3	5.6
15	4.8	781	297	243	94	2370	3290	78	1880	40	5.8	5.0
16	4.6	135	112	169	85	825	1080	62	544	27	5.5	4.6
17	4.4	56	71	134	789	366	289	51	106	19	5.1	4.3
18	4.2	36	53	209	885	217	127	44	43	15	5.0	4.0
19	4.2	25	56	178	393	154	83	39	28	12	4.8	3.8
20	4.1	29	62	135	212	131	65	36	27	10	4.5	3.7
21	4.1	43	52	115	143	166	54	30	22	9.4	4.3	3.7
22	4.1	34	1600	6980	108	124	46	27	17	8.7	4.3	3.7
23	4.0	26	1070	19400	92	98	39	25	29	8.2	4.3	3.6
24	3.8	21	5890	6750	85	111	121	24	680	7.7	470	3.5
25	3.7	17	2310	2390	77	165	2020	21	1200	7.2	148	3.5
26	3.7	16	651	811	74	137	1420	19	1080	21	18	3.3
27	3.6	14	352	374	605	90	915	17	9210	91	11	3.5
28	3.6	13	5840	244	2480	70	234	16	12500	29	8.6	3.5
29	3.6	12	3080	3310	---	71	65	16	4950	24	7.0	4.7
30	3.5	11	1040	6560	---	83	37	34	4750	17	6.0	6.8
31	3.5	---	323	3790	---	90	---	39	---	14	5.3	---
TOTAL	778.9	2378.5	39268.1	72821	12457	36245	27346	7995	38696	7365.2	831.1	152.3
MEAN	25.1	79.3	1267	2349	445	1169	912	258	1290	238	26.8	5.08
MAX	522	1020	8810	19400	2480	5210	8170	4180	12500	2290	470	15
MIN	3.5	3.5	8.4	115	74	70	37	16	10	7.2	4.3	3.3
CFSM	.09	.27	4.29	7.96	1.51	3.96	3.09	.87	4.37	.81	.09	.02
IN.	.10	.30	4.95	9.18	1.57	4.57	3.45	1.01	4.88	.93	.10	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1999, BY WATER YEAR (WY)

	MEAN	48.0	267	641	729	854	997	798	455	243	114	56.5	59.9
MAX	622	2827	4402	2400	2409	3583	3418	3696	1815	948	335	857	
(WY)	1976	1958	1983	1974	1991	1980	1991	1991	1989	1979	1996	1979	
MIN	.15	.99	3.59	11.5	66.1	83.2	15.9	7.45	.38	1.26	.80	.000	
(WY)	1954	1982	1966	1956	1963	1954	1986	1988	1988	1954	1951	1952	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1951 - 1999

ANNUAL TOTAL	178753.3	246334.1	436
ANNUAL MEAN	490	675	1171
HIGHEST ANNUAL MEAN			78.6
LOWEST ANNUAL MEAN			50800
HIGHEST DAILY MEAN	8810	Dec 12	19400
LOWEST DAILY MEAN	3.5	Oct 30	3.3
ANNUAL SEVEN-DAY MINIMUM	3.6	Oct 26	3.5
INSTANTANEOUS PEAK FLOW			23800
ANNUAL RUNOFF (CFSM)	1.66		23.26
ANNUAL RUNOFF (INCHES)	22.54		2.29
10 PERCENT EXCEEDS	1190		31.06
50 PERCENT EXCEEDS	54		2140
90 PERCENT EXCEEDS	5.8		54
			4.4
			2.1

LOCATION.--Lat 33°46'47", long 89°14'49", in NE¼ NE¼ sec.16, T.22 N., R.10 E., Choctaw Meridian, Calhoun County, Hydrologic Unit 08030205, on right bank at upstream side of bridge on county road, 5.8 mi south of Derma, 0.5 mi upstream from Bear Creek, and 1.4 mi below Buck Creek.

PERIOD OF DAILY RECORD.--

DISCHARGE: May 1998 to current year.

SUSPENDED SEDIMENT CONCENTRATION: May 1998 to current year.

SUSPENDED SEDIMENT CONCENTRATION: May 1998 to current year
SUSPENDED SEDIMENT DISCHARGE: May 1998 to current year

INSTRUMENTATION.--Water-stage recorder. Datum of gage is assumed. Automatic pumping sediment sampler since May 1998.

REMARKS.--Estimated daily discharge: Oct. 5-10, Nov. 3, 7, Mar. 13, 20-21, June 16. Discharge records good except for estimated daily discharges, which are poor. Satellite telemeter at station. Flow intermingles with Bear Creek when stage is above bank full. Channel rectification was completed in 1967.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 8,560 ft³/s, June 27, 1999, maximum gage height, 31.14 ft, June 27, 1999; minimum daily mean, 0.93 ft³/s, Aug. 4, 1998.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,240 mg/L, Jan. 22, 1999; minimum daily mean, 33 mg/L, May 21, July 6, 1999.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 26,200 tons, Jan. 22, 1999; minimum daily, 0.13 ton, Oct. 26, 1998, Aug. 23, 1999..

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 8,560 ft³/s, June 27, gage height, 31.14 ft; minimum daily mean, 1.0 ft³/s, Oct. 23.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,240 mg/L, Jan. 22; minimum daily mean, 33 mg/L, May 21, July 6.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 26,200 tons, Jan. 22; minimum daily, 0.13 ton, Oct. 26, Aug. 23.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

		DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)
DATE	TIME	
JUN		
17...	1345	11

DATE	TIME	BED	BED	BED	BED	BED	BED	BED	SAMPLE
		MAT.	MAT.	MAT.	MAT.	MAT.	MAT.	MAT.	LOCAT.
		SIEVE	SIEVE	SIEVE	SIEVE	SIEVE	SIEVE	SIEVE	X-SECT.
		DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	LOOKING
		% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	UPSTRM.
		THAN	THAN	THAN	THAN	THAN	THAN	THAN	(% FROM
		.062 MM	.125 MM	.250 MM	.500 MM	1.00 MM	2.00 MM	4.00 MM	R BANK)
		(80164)	(80165)	(80166)	(80167)	(80168)	(80169)	(80170)	(00002)
JUN									
17...	1347	<1	1	26	92	99	100	--	25.0
17...	1349	<1	1	15	68	86	89	94	50.0
17...	1351	<1	1	14	73	85	86	89	75.0

07282090 TOPASHAW CREEK CANAL NEAR DERMA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	---	---	---	---	---	---	27	101	7.5
2	---	---	---	---	---	---	19	83	4.3
3	---	---	---	---	---	---	16	75	3.3
4	---	---	---	30	67	5.4	16	74	3.1
5	---	---	---	27	65	4.7	224	1220	1930
6	---	---	---	24	64	4.1	91	410	131
7	---	---	---	22	62	3.7	30	145	12
8	---	---	---	25	61	4.1	17	102	4.8
9	---	---	---	21	60	3.4	14	86	3.2
10	---	---	---	18	59	2.9	12	77	2.5
11	---	---	---	17	58	2.7	10	76	2.1
12	---	---	---	16	57	2.5	9.9	78	2.1
13	---	---	---	14	56	2.1	9.2	77	1.9
14	---	---	---	13	55	1.9	8.1	74	1.6
15	---	---	---	12	55	1.7	13	84	3.1
16	---	---	---	11	53	1.6	11	87	2.5
17	---	---	---	10	52	1.4	6.9	83	1.6
18	---	---	---	9.1	51	1.2	6.2	81	1.4
19	---	---	---	8.5	49	1.1	8.5	146	3.7
20	---	---	---	8.1	48	1.0	5.8	92	1.4
21	---	---	---	7.6	47	.96	5.1	83	1.1
22	---	---	---	7.1	46	.88	4.3	76	.87
23	---	---	---	7.1	45	.86	3.8	73	.75
24	---	---	---	7.3	44	.87	3.5	72	.68
25	---	---	---	6.1	43	.70	3.3	71	.64
26	---	---	---	5.8	42	.66	3.3	71	.62
27	---	---	---	6.0	41	.66	2.9	76	.59
28	---	---	---	162	245	409	2.6	84	.60
29	---	---	---	1470	1180	6240	2.5	93	.63
30	---	---	---	142	286	142	3.1	81	.68
31	---	---	---	39	137	16	---	---	---
JULY			AUGUST			SEPTEMBER			
1	4.6	78	.94	1.3	72	.25	4.5	47	.57
2	2.9	79	.62	1.2	74	.23	3.7	47	.47
3	3.9	122	1.4	1.0	76	.21	2.5	53	.36
4	2.4	89	.57	.93	62	.16	2.3	54	.33
5	5.5	126	3.3	1.3	59	.21	2.0	53	.29
6	5.2	123	1.8	6.3	115	4.4	1.8	52	.26
7	2.9	98	.78	17	195	11	2.0	53	.28
8	2.0	86	.47	227	658	709	2.0	56	.31
9	24	159	25	20	117	7.5	2.0	61	.32
10	324	1880	5700	3.7	69	.71	1.7	62	.28
11	212	1820	1240	2.9	92	.84	1.7	62	.28
12	64	304	55	130	478	492	2.2	63	.38
13	27	199	16	69	208	53	3.0	64	.52
14	12	130	4.5	39	220	47	2.7	65	.47
15	26	140	12	209	487	786	2.2	67	.40
16	46	175	25	197	252	200	1.8	68	.34
17	16	133	6.0	40	124	14	1.9	65	.34
18	5.1	100	1.4	22	87	5.2	1.7	60	.27
19	2.9	80	.64	14	64	2.4	1.5	58	.23
20	2.2	66	.39	8.8	59	1.4	2.0	62	.33
21	1.7	66	.30	6.7	61	1.1	3.8	67	.69
22	1.7	67	.32	6.0	60	.99	3.2	66	.56
23	1.5	65	.27	5.9	58	.94	2.1	63	.36
24	3.9	95	1.6	5.8	56	.88	1.9	58	.29
25	6.8	93	1.8	5.4	53	.77	1.5	53	.22
26	4.6	82	1.0	5.1	48	.66	1.4	50	.18
27	3.2	64	.55	4.8	47	.61	1.3	48	.17
28	2.3	61	.38	4.6	46	.57	1.3	46	.17
29	1.9	62	.33	4.4	46	.55	1.3	46	.16
30	2.2	65	.38	5.2	47	.66	1.2	46	.16
31	1.6	69	.29	6.6	47	.84	---	---	---

YAZOO RIVER BASIN

07282090 TOPASHAW CREEK CANAL NEAR DERMA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	1.2	48	.16	5.7	65	1.2	5.1	39	.55
2	1.3	53	.18	2.5	42	.28	4.6	41	.51
3	354	494	957	3.3	42	.37	4.7	45	.57
4	21	139	8.5	3.0	45	.36	4.6	49	.61
5	5.1	94	1.3	2.7	45	.32	4.5	50	.61
6	3.9	78	.82	2.3	44	.28	4.5	50	.60
7	3.5	67	.63	2.1	46	.26	9.2	100	2.8
8	2.9	59	.45	6.6	106	2.1	28	198	17
9	2.7	53	.39	6.0	63	1.1	23	75	4.8
10	2.1	53	.30	14	136	7.1	27	126	23
11	1.6	55	.23	13	123	4.4	138	343	140
12	1.4	56	.21	5.0	77	1.1	2780	1340	11400
13	1.3	51	.19	2.7	51	.38	319	627	590
14	1.4	45	.17	273	796	882	79	179	40
15	1.5	51	.20	85	279	82	43	100	12
16	1.3	62	.21	21	69	4.0	30	73	5.9
17	1.1	60	.18	13	53	1.8	22	62	3.7
18	1.1	53	.15	8.2	50	1.1	18	55	2.7
19	1.3	47	.17	6.2	50	.83	22	78	4.8
20	1.4	46	.18	15	226	12	18	66	3.2
21	1.2	48	.15	14	97	3.9	15	65	2.6
22	1.1	49	.14	8.8	54	1.3	391	706	1010
23	1.0	50	.14	7.1	45	.87	338	454	1020
24	1.1	48	.14	6.8	44	.81	1090	1010	4710
25	1.2	46	.14	6.4	44	.76	120	193	65
26	1.1	45	.13	5.8	44	.68	78	145	30
27	1.2	47	.16	5.2	44	.61	90	174	46
28	1.3	49	.17	5.0	42	.56	1150	1090	5190
29	1.3	48	.17	4.9	40	.53	201	233	133
30	1.3	45	.16	5.3	38	.55	100	116	32
31	1.5	44	.18	---	---	---	67	84	15
JANUARY			FEBRUARY			MARCH			
1	55	71	11	192	321	170	62	74	12
2	692	985	2840	130	177	63	189	177	359
3	226	278	183	95	107	28	832	1100	3720
4	89	134	33	69	76	14	153	187	82
5	64	103	18	56	58	8.7	95	83	22
6	58	76	12	55	53	7.9	296	342	352
7	55	72	11	60	50	8.0	123	100	34
8	222	492	486	47	51	6.4	108	106	60
9	1320	1720	8340	40	70	7.7	710	945	2600
10	177	548	274	42	58	6.6	154	375	162
11	112	255	78	36	60	5.8	94	113	29
12	80	155	34	43	64	7.6	70	65	12
13	64	102	18	37	60	5.9	1170	1220	5500
14	54	87	13	30	54	4.4	677	1120	2380
15	46	79	9.7	28	49	3.7	183	508	260
16	42	75	8.4	27	46	3.4	113	218	68
17	39	72	7.6	112	212	77	83	95	21
18	48	150	20	83	111	26	66	63	11
19	36	68	6.6	52	57	8.1	52	46	6.5
20	33	62	5.7	41	47	5.2	50	43	5.8
21	30	59	4.8	36	43	4.2	51	43	5.8
22	2440	2240	26200	33	40	3.6	43	43	5.0
23	2130	1890	15700	33	46	4.2	34	46	4.3
24	239	554	379	36	64	6.6	41	51	5.6
25	137	215	81	30	53	4.4	63	52	8.9
26	100	154	41	29	41	3.2	42	53	6.1
27	82	124	28	64	97	34	32	49	4.2
28	73	107	21	155	203	98	28	44	3.4
29	1330	998	9680	---	---	---	26	41	2.9
30	1150	1160	3720	---	---	---	26	43	3.0
31	450	812	1070	---	---	---	34	47	4.3

07282090 TOPASHAW CREEK CANAL NEAR DERMA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	30	48	3.9	20	41	2.1	7.9	46	.99
2	25	48	3.3	16	41	1.8	6.7	43	.77
3	23	49	3.3	15	42	1.7	5.9	40	.64
4	284	254	241	15	43	1.7	5.4	40	.59
5	95	73	19	114	85	161	4.8	42	.54
6	997	1170	5310	1180	1230	7300	4.5	41	.50
7	160	324	150	114	177	58	4.4	40	.48
8	95	158	40	49	100	13	5.4	45	.65
9	74	144	29	29	68	5.4	4.5	51	.62
10	53	109	16	21	48	2.7	4.2	46	.51
11	41	76	8.5	19	46	2.3	4.1	40	.44
12	30	53	4.3	26	50	3.5	135	362	320
13	27	47	3.4	21	44	2.6	21	77	4.9
14	47	61	25	17	38	1.8	343	904	2560
15	862	841	3380	15	35	1.4	226	347	364
16	131	146	55	14	35	1.3	24	80	5.6
17	72	88	17	14	36	1.3	12	43	1.3
18	53	68	9.8	13	40	1.4	9.0	38	.93
19	49	54	7.0	13	41	1.4	8.1	37	.81
20	45	48	5.8	12	38	1.2	9.4	36	.91
21	38	46	4.8	12	33	1.1	5.2	34	.48
22	33	44	3.9	12	35	1.2	4.8	34	.43
23	27	42	3.1	15	38	1.5	64	1510	538
24	177	274	495	13	42	1.4	36	249	33
25	248	216	224	11	42	1.3	13	99	3.4
26	81	97	22	10	41	1.1	115	612	389
27	75	85	18	10	43	1.2	4110	1120	18900
28	42	52	5.9	9.3	46	1.2	631	1020	2470
29	28	45	3.4	9.7	58	1.9	166	315	148
30	24	41	2.6	15	80	3.7	99	115	32
31	---	---	---	9.8	53	1.4	---	---	---
JULY			AUGUST			SEPTEMBER			
1	59	67	11	3.4	42	.39	1.4	97	.36
2	38	57	5.8	3.4	40	.37	1.4	131	.49
3	26	152	11	3.3	39	.34	1.4	133	.49
4	19	79	4.1	2.5	40	.27	1.3	136	.47
5	15	38	1.5	2.4	43	.28	1.4	138	.50
6	12	33	1.0	2.4	43	.27	1.4	138	.53
7	35	106	22	2.3	45	.28	1.4	123	.47
8	88	556	224	2.6	48	.34	30	555	212
9	26	181	14	3.4	51	.47	36	340	59
10	22	116	7.1	4.8	48	.63	4.9	116	1.6
11	95	429	278	3.3	50	.44	2.6	100	.69
12	78	264	75	2.5	51	.34	2.1	107	.60
13	26	78	5.7	2.0	52	.28	1.9	115	.58
14	15	46	1.9	1.7	48	.22	1.6	152	.64
15	12	46	1.4	1.4	43	.17	1.3	204	.73
16	10	48	1.3	1.4	38	.15	1.2	119	.38
17	8.9	49	1.2	1.3	40	.14	1.1	138	.41
18	8.1	50	1.1	1.4	44	.16	1.1	128	.39
19	7.1	49	.94	1.4	46	.17	1.2	112	.37
20	6.1	44	.73	1.3	47	.16	1.2	102	.33
21	6.0	41	.67	1.2	46	.15	1.3	111	.40
22	6.2	47	.79	1.2	44	.14	1.4	128	.49
23	5.9	54	.86	1.1	43	.13	1.4	172	.63
24	4.9	54	.71	92	569	298	1.3	233	.84
25	7.1	80	3.2	20	272	19	1.4	245	.90
26	113	927	856	4.4	156	1.9	1.4	236	.88
27	44	203	34	2.7	124	.92	1.4	226	.83
28	8.2	62	1.4	2.2	127	.74	2.8	278	2.9
29	5.5	47	.69	1.9	135	.69	8.4	528	23
30	4.5	45	.55	1.6	127	.56	2.7	150	1.1
31	3.8	43	.45	1.4	67	.26	---	---	---

07282100 TOPASHAW CREEK CANAL NEAR CALHOUN CITY, MS

LOCATION.--Lat 33°48'53", long 89°20'45", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.34, T.23 N., R.9 E., Choctaw Meridian, Calhoun County, Hydrologic Unit 08030205, at downstream side of bridge on State Highways 8 & 9, 0.6 mi northeast of their junction, and 3.5 mi upstream from Yalobusha River.

DRAINAGE AREA.--101 mi², approximately.

PERIOD OF RECORD.--Water years 1972, 1997 to current year.

PERIOD OF DAILY RECORD.--

DISCHARGE: October 1972 to current year.

SUSPENDED SEDIMENT CONCENTRATION: October 1996 to January 1998.

SUSPENDED SEDIMENT DISCHARGE: October 1996 to January 1998.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 227.94 ft above sea level. Prior to Aug. 16, 1963, nonrecording gage and crest-stage gage. Automatic pumping sediment sampler from October 1996 to January 1998.

REMARKS.--Estimated daily discharge: Apr. 5-9. Discharge records fair except for estimated daily discharges, which are poor. Flow intermingles with Yalobusha River when stage is above bank full. Channel rectification was completed in 1967. Satellite telemeter at station.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: No flow at times during several years.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,360 mg/L, May 29, 1997; minimum daily mean, 25 mg/L, Aug. 29-30, 1997.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 37,000 tons, Mar. 3, 1997; minimum daily, 0.33 ton, Sept. 22, 1997.

REVISIONS.--Revised figures on mean discharge and sediment discharge for the water year 1997, superseding those published in the report for 1998 are given below.

DISCHARGE: Maximum gage height, 23.09 ft, Mar. 3; minimum daily discharge, 3.2 ft³/s, Sept. 22, 23.

YAZOO RIVER BASIN

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07282100 TOPASHAW CREEK CANAL NEAR CALHOUN CITY, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	15	65	2.6	84	210	135	1040	426	1400
2	11	57	1.6	415	453	540	524	88	129
3	11	54	1.6	116	234	77	187	66	34
4	9.5	51	1.3	41	166	19	83	59	13
5	7.8	49	1.0	21	129	7.3	67	67	13
6	7.1	47	.90	13	100	3.5	87	103	24
7	6.5	45	.80	153	367	285	186	134	71
8	5.9	43	.69	414	211	262	118	73	24
9	5.5	41	.61	120	116	38	66	51	9.3
10	5.1	40	.55	40	98	11	48	47	6.1
11	4.9	38	.50	20	89	4.9	41	46	5.1
12	4.7	36	.46	11	81	2.4	41	49	5.4
13	4.6	35	.43	7.6	74	1.5	43	51	5.9
14	4.5	33	.41	6.2	67	1.1	35	49	4.6
15	4.4	32	.38	5.3	62	.89	29	46	3.6
16	4.3	31	.36	4.6	61	.76	1130	681	5430
17	4.3	30	.35	4.5	70	.89	2160	661	5580
18	4.5	30	.37	61	258	53	631	104	189
19	4.8	30	.39	86	279	68	197	67	37
20	4.8	30	.39	36	165	16	80	52	11
21	4.5	30	.37	26	118	8.1	57	49	7.5
22	4.6	32	.40	22	87	5.1	48	47	6.1
23	6.3	76	1.3	14	77	2.8	42	47	5.4
24	6.7	62	1.1	9.8	69	1.8	96	63	17
25	6.1	42	.70	98	279	107	86	58	14
26	10	106	4.0	96	141	39	314	212	582
27	21	190	11	38	69	7.2	1410	597	2570
28	15	118	4.8	21	57	3.2	453	130	168
29	11	90	2.6	14	49	1.8	208	92	52
30	8.3	76	1.7	1730	1140	8550	161	90	40
31	7.1	64	1.2	---	---	---	141	94	36
JANUARY			FEBRUARY			MARCH			
1	101	84	23	121	66	22	481	115	152
2	76	73	15	102	64	18	2290	2110	28500
3	63	65	11	120	93	32	4810	2110	37700
4	59	69	11	144	107	42	1300	547	2030
5	526	620	1050	121	89	29	743	626	1540
6	207	124	73	89	73	17	688	297	628
7	529	331	496	167	244	303	306	98	84
8	968	750	4210	604	294	564	170	68	31
9	1160	663	2820	250	92	63	126	56	19
10	372	118	123	140	72	27	254	237	168
11	140	89	34	103	68	19	181	110	55
12	85	71	16	85	67	15	115	65	20
13	66	58	10	730	548	1300	105	67	20
14	57	55	8.4	560	125	200	203	133	76
15	381	557	1750	243	81	54	156	102	44
16	675	369	840	139	68	26	96	66	17
17	203	127	71	102	59	16	76	58	12
18	94	107	27	85	58	13	75	60	12
19	75	89	18	76	58	12	333	134	117
20	67	75	14	71	56	11	204	68	38
21	58	67	11	585	802	1710	115	48	15
22	99	174	63	378	223	250	82	45	9.9
23	131	306	110	154	92	39	64	42	7.3
24	1840	1380	7940	97	62	16	58	40	6.3
25	810	385	988	83	55	12	51	41	5.6
26	330	114	105	108	110	34	48	41	5.3
27	156	118	53	836	697	1820	43	40	4.6
28	1610	1200	6530	861	484	1220	43	39	4.6
29	568	195	311	---	---	---	42	41	4.7
30	256	116	82	---	---	---	39	43	4.6
31	156	75	32	---	---	---	35	45	4.3

YAZOO RIVER BASIN

07282100 TOPASHAW CREEK CANAL NEAR CALHOUN CITY, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	31	44	3.7	46	55	6.8	767	376	832
2	26	43	3.0	627	982	6890	707	570	1100
3	23	48	3.0	5900	1880	35800	388	150	169
4	21	62	3.6	1510	255	1100	158	70	31
5	345	265	246	639	119	210	104	70	23
6	507	241	330	188	97	50	694	252	517
7	77	58	12	94	78	20	335	106	101
8	66	78	14	69	65	12	122	63	21
9	41	66	7.3	63	58	9.8	642	64	99
10	36	62	6.0	57	52	8.2	1170	569	3110
11	30	57	4.6	45	47	5.8	1750	1140	6280
12	30	53	4.3	39	43	4.5	984	348	956
13	30	50	4.1	32	49	4.2	488	129	181
14	26	47	3.3	27	59	4.3	212	84	48
15	21	48	2.7	25	56	3.8	171	71	33
16	18	51	2.5	22	48	2.9	96	49	13
17	16	54	2.3	19	41	2.1	901	980	3450
18	13	57	2.1	16	39	1.7	717	149	318
19	13	53	1.9	14	39	1.5	296	67	57
20	11	48	1.5	20	69	3.9	104	228	54
21	12	45	1.4	24	65	4.3	1650	1640	8080
22	28	79	7.6	20	53	2.8	399	211	253
23	51	160	22	15	45	1.8	155	103	46
24	29	90	7.2	1650	1490	16500	210	254	156
25	19	50	2.6	2030	1130	7230	93	97	25
26	16	40	1.7	628	184	331	69	57	11
27	276	593	879	723	898	2420	72	54	11
28	330	177	168	2090	1380	9500	167	74	36
29	263	97	70	2990	2360	24300	312	278	249
30	89	68	17	668	278	554	155	98	43
31	---	---	---	1540	1660	10300	---	---	---
JULY			AUGUST			SEPTEMBER			
1	70	65	13	23	76	4.7	6.3	28	.46
2	44	43	5.2	15	61	2.5	6.1	29	.48
3	34	32	2.9	11	50	1.6	6.2	31	.51
4	28	32	2.4	9.3	41	1.0	6.1	34	.55
5	22	32	1.9	7.9	41	.88	5.7	37	.57
6	18	31	1.5	7.0	44	.84	5.2	41	.58
7	45	50	6.1	6.7	51	.92	4.9	46	.61
8	56	64	12	6.5	57	1.0	4.7	51	.64
9	74	78	16	6.9	55	1.0	4.8	48	.62
10	109	286	200	7.4	51	1.0	5.2	44	.62
11	218	587	532	8.8	82	2.7	5.0	45	.61
12	90	95	26	220	1030	1800	4.8	47	.61
13	191	258	369	406	847	1680	4.5	47	.57
14	272	259	245	78	181	41	4.3	47	.54
15	71	70	14	63	186	34	4.1	46	.51
16	39	41	4.4	30	91	7.6	3.9	45	.47
17	28	40	2.9	19	52	2.7	3.8	43	.44
18	22	46	2.7	15	32	1.3	3.7	43	.42
19	18	46	2.3	15	31	1.3	3.5	42	.40
20	15	43	1.8	29	82	14	3.4	40	.37
21	13	48	1.7	88	236	62	3.3	39	.34
22	27	88	6.4	32	98	8.7	3.2	39	.33
23	63	242	42	19	60	3.2	3.2	50	.44
24	34	159	15	14	44	1.7	4.4	98	2.6
25	22	104	6.2	11	34	1.0	231	966	942
26	15	82	3.4	9.2	31	.78	292	533	753
27	12	67	2.1	8.3	30	.67	35	136	14
28	9.4	55	1.4	7.5	27	.55	16	69	3.1
29	16	77	4.4	7.2	25	.47	10	42	1.2
30	105	235	67	6.8	25	.47	8.1	35	.77
31	44	109	13	6.5	26	.46	---	---	---

07283000 SKUNA RIVER AT BRUCE, MS
(National Water-Quality Assessment Station)

LOCATION.--Lat 33°58'25", long 89°20'52", in SE1/4 SW1/4 sec.6, T.13 S., R.1 W., Chickasaw Meridian, Calhoun County, Hydrologic Unit 08030205, on left bank on downstream side of bridge on State Highway 9, 1.0 mi south of Bruce.

DRAINAGE AREA.--254 mi².

PERIOD OF RECORD.--October 1947 to current year. Prior to March 1948 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 1920: 1958(P), 1959-60(M).

GAGE.--Water-stage recorder. Datum of gage is 228.45 ft above sea level (levels U. S. Army Corps of Engineers). Prior to Jan. 1, 1972, at datum 10.30 ft higher. October 1947 to Aug. 30, 1948, nonrecording gage. Aug. 31, 1948 to Mar. 23, 1955, water-stage recorder, and Mar. 24, 1955 to Sept. 12, 1958, nonrecording gage at same site.

REMARKS.--Estimated daily discharges: Sept. 14, 21-23, 25. Records fair except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 11,000 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec. 12	1600	12,400	20.65	Apr. 6	0800	13,000	20.99
Jan. 9	0600	11,600	20.10	Apr. 25	0200	14,800	22.14
Jan. 22	2400	*31,000	*29.40				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.7	9.0	134	849	427	137	118	216	130	10	7.7
2	11	11	8.7	2890	480	238	95	84	53	65	10	7.8
3	27	12	8.3	1480	331	2040	75	68	31	44	9.4	7.7
4	29	11	8.0	359	239	448	3050	56	29	34	9.2	7.4
5	18	11	7.9	165	171	246	662	174	22	29	8.9	8.0
6	15	11	8.0	137	140	3550	6870	5360	19	24	8.9	7.4
7	19	11	22	131	150	741	951	621	18	21	8.9	7.2
8	18	18	26	1130	136	370	423	280	17	20	8.9	9.1
9	15	18	21	7090	109	2790	284	156	16	79	9.1	12
10	14	20	28	1030	735	598	187	105	15	81	8.9	9.8
11	13	21	211	508	440	329	125	82	16	520	8.5	8.8
12	13	17	7120	351	270	217	84	78	1010	307	8.1	8.3
13	12	14	2820	261	176	4680	66	77	395	60	7.9	8.2
14	12	96	451	1190	111	3520	63	62	125	31	7.9	e8.1
15	12	119	162	484	90	845	720	50	167	23	7.6	7.6
16	12	29	88	273	78	434	284	42	51	20	7.5	7.4
17	12	18	62	186	362	280	124	37	31	17	7.4	7.4
18	12	14	47	357	384	189	83	36	24	16	7.3	7.7
19	12	13	51	254	194	135	66	35	21	15	7.1	7.6
20	12	18	66	159	123	171	54	30	20	14	7.0	7.7
21	11	20	52	127	93	378	46	28	18	14	7.1	e7.6
22	11	16	740	7980	72	184	38	28	17	13	7.3	e7.9
23	11	13	539	15100	66	120	34	26	23	13	7.1	e7.6
24	11	12	3260	1270	60	103	1650	24	940	12	236	7.5
25	11	11	548	607	55	91	6470	23	1530	11	156	e7.6
26	11	11	319	437	56	73	5250	26	801	15	22	7.3
27	11	10	368	333	268	60	1760	23	4200	21	13	7.3
28	10	9.7	4760	269	2520	55	580	23	2240	29	10	7.0
29	10	9.3	1030	2170	---	142	305	21	374	18	9.0	8.6
30	10	9.3	374	4970	---	165	187	105	340	13	8.3	8.3
31	10	---	182	2670	---	125	---	110	---	11	8.1	---
TOTAL	416	613.0	23396.9	54502	8758	23744	30723	7988	12779	1720	652.4	239.6
MEAN	13.4	20.4	755	1758	313	766	1024	258	426	55.5	21.0	7.99
MAX	29	119	7120	15100	2520	4680	6870	5360	4200	520	236	12
MIN	10	9.3	7.9	127	55	55	34	21	15	11	7.0	7.0
CFSM	.05	.08	2.97	6.92	1.23	3.02	4.03	1.01	1.68	.22	.08	.03
IN.	.06	.09	3.43	7.98	1.28	3.48	4.50	1.17	1.87	.25	.10	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1999, BY WATER YEAR (WY)

	MEAN	46.7	243	507	624	754	858	643	354	224	101	63.4	73.7
MAX	389	1922	3035	2091	2703	3426	2356	1729	1825	661	460	895	
(WY)	1985	1958	1983	1949	1991	1973	1991	1997	1997	1989	1950	1958	
MIN	3.23	5.67	10.6	18.8	76.5	58.4	26.3	14.8	4.99	4.85	1.72	1.90	
(WY)	1954	1956	1966	1986	1978	1954	1986	1965	1988	1952	1954	1954	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1948 - 1999
ANNUAL TOTAL	141226.9	165531.9	
ANNUAL MEAN	387	454	372
HIGHEST ANNUAL MEAN			767
LOWEST ANNUAL MEAN			74.6
HIGHEST DAILY MEAN	7350	Feb 17	35100
LOWEST DAILY MEAN	7.9	Dec 5	1.0
ANNUAL SEVEN-DAY MINIMUM	8.5	Nov 30	7.2
INSTANTANEOUS PEAK FLOW			31000
INSTANTANEOUS PEAK STAGE			29.40
ANNUAL RUNOFF (CFSM)	1.52		1.79
ANNUAL RUNOFF (INCHES)	20.68		24.24
10 PERCENT EXCEEDS	1010		885
50 PERCENT EXCEEDS	45		42
90 PERCENT EXCEEDS	11		8.1

e Estimated

YAZOO RIVER BASIN

07285500 YALOBUSHA RIVER AT GRENADA, MS

LOCATION.--Lat 33°47'18", long 89°48'36", in SW1/4 NE1/4 sec. 7, T.22 N., R.5 E., Choctaw Meridian, Grenada County, Hydrologic Unit 08030205, on downstream left bridge seat of U.S. Highway 51 bridge.

DRAINAGE AREA.--1570 mi², approximately, U.S. Army Corps of Engineers

PERIOD OF RECORD.--February 1989 to current year. July 1, 1929, to date, stage data available; February 1929 to date, measured discharge available; and December 1, 1931, to June 30, 1953, daily discharge available in U.S. Army Corps of Engineers records. Prior to October 1, 1992, published as "07285510 Yalobusha River at Grenada, MS."

GAGE.--Water stage recorder. Datum of gage is 152.03 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to June 23, 1993, water-stage recorder at site 0.5 mi downstream at datum 3.35 ft lower.

REMARKS.--No estimated daily discharges. Records good. Regulated by Grenada Lake Spillway. Satellite telemeter at Station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 14, 1948, reached an elevation of 182.81 ft above sea level at site 2600 ft upstream, discharge 78,900 ft³/s from records of U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2410	2830	1050	6130	2350	5250	2080	292	409	900	1420	2060
2	2180	2770	1060	7450	3570	5070	2020	278	412	887	1420	2050
3	1600	2700	805	4720	5040	8820	2030	266	404	876	1850	2050
4	1060	2620	592	4200	5750	4940	5730	294	391	868	2190	2050
5	425	2540	614	5600	6150	3910	2930	449	385	863	2190	2180
6	85	2630	638	5980	6070	3950	5940	2750	380	855	2180	2200
7	93	2950	888	5900	5950	3800	2730	1070	377	861	2170	2120
8	94	2930	1050	6180	5860	3740	2280	720	395	1010	2180	2280
9	71	2850	892	7970	5910	4900	2160	612	381	1510	2170	2430
10	62	2830	942	4440	6010	4190	2090	544	374	1550	2180	2410
11	59	2740	1240	4810	5920	3950	2030	512	389	1830	2170	2400
12	57	2650	7400	6120	5830	3860	1980	562	375	1550	2170	2400
13	56	2660	4080	6000	5740	5660	1940	555	373	1490	2160	2390
14	55	2640	2160	6450	5640	6570	1960	497	398	1480	2150	2380
15	54	1880	3990	7020	5540	4830	3570	469	393	1470	2140	2370
16	63	1750	5210	6920	5500	4510	2290	455	389	1470	2130	2370
17	61	2900	5550	6830	5860	4200	1900	449	369	1480	2130	2360
18	53	2750	5420	6820	5880	3940	1750	442	362	1340	2130	2350
19	51	2850	5360	6820	5710	3870	1540	433	368	918	2120	2350
20	52	2860	5260	6870	5710	3830	1030	427	366	1450	2120	2350
21	51	2820	5120	5990	5630	3790	739	417	352	1500	2110	2340
22	49	2670	6010	6640	5490	3710	457	417	350	1470	2100	2330
23	48	2760	5590	9810	5400	3640	332	417	372	1440	2100	2320
24	59	2850	6950	3290	5300	3680	320	410	417	1440	2130	2320
25	259	2770	3040	3790	5200	3750	396	405	429	1450	2130	2310
26	1340	2690	2580	5750	5140	3310	413	405	409	1730	2110	2310
27	2730	2600	2540	6360	5130	2730	656	404	655	2230	2100	2300
28	3090	2150	6060	6200	6430	2320	435	405	761	1510	2090	2310
29	3010	1530	6050	7980	---	2160	343	418	501	1470	2080	2320
30	2950	1290	5790	9740	---	2100	313	417	599	1450	2080	2300
31	2890	---	6190	4250	---	1660	---	408	---	1430	2070	---
TOTAL	25117	77460	110121	193030	153710	126640	54384	16599	12535	41778	64470	68710
MEAN	810	2582	3552	6227	5490	4085	1813	535	418	1348	2080	2290
MAX	3090	2950	7400	9810	6430	8820	5940	2750	761	2230	2190	2430
MIN	48	1290	592	3290	2350	1660	313	266	350	855	1420	2050
CFSM	.52	1.67	2.29	4.02	3.54	2.64	1.17	.35	.27	.87	1.34	1.48
IN.	.60	1.86	2.64	4.63	3.69	3.04	1.31	.40	.30	1.00	1.55	1.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

	MEAN	2691	2847	3624	4691	3529	3118	2292	2076	1712	1821	2748	3042
MAX	5075	4963	6461	6227	5490	5756	4228	9529	5646	4904	4808	5652	
(WY)	1998	1990	1990	1999	1999	1990	1991	1991	1991	1991	1991	1991	
MIN	810	1909	1329	1499	1038	1033	365	189	320	322	382	848	
(WY)	1999	1996	1998	1994	1992	1993	1992	1992	1993	1993	1992	1992	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1989 - 1999

ANNUAL TOTAL	880878	944554	
ANNUAL MEAN	2413	2588	
HIGHEST ANNUAL MEAN			2807
LOWEST ANNUAL MEAN			4441
HIGHEST DAILY MEAN	8880	Mar 8	1685
LOWEST DAILY MEAN	48	Oct 23	1993
ANNUAL SEVEN-DAY MINIMUM	52	Oct 18	21900
INSTANTANEOUS PEAK FLOW			30
INSTANTANEOUS PEAK STAGE			Apr 29 1991
ANNUAL RUNOFF (CFSM)	1.56		23000
ANNUAL RUNOFF (INCHES)	21.14		33
10 PERCENT EXCEEDS	5770		Sep 27 1990
50 PERCENT EXCEEDS	2450		27.54
90 PERCENT EXCEEDS	309		1.81
			24.61
			5710
			2520
			345

07287150 ABIACA CREEK NEAR SEVEN PINES, MS

LOCATION.--Lat 33°20'24", long 90°09'04". in NW¹/₄ SE¹/₄ sec.13, T.17 N., R.1 E., Choctaw Meridian, Carroll County, Hydrologic Unit 08030206, on right bank at upstream side of bridge on county road, 5.0 mi northeast of Cruger, and 4.0 mi southwest of Seven Pines.

DRAINAGE AREA.--95.2 mi².

PERIOD OF RECORD.--Water years 1992 to current year.

PERIOD OF DAILY RECORD.--

DISCHARGE: October 1991 to current year.

SUSPENDED SEDIMENT CONCENTRATION: October 1991 to current year.

SUSPENDED SEDIMENT DISCHARGE: October 1991 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 134.28 ft above sea level. October 28, 1955 to present, discharge measurements and gage height record at same site and datum in files of U.S. Army Corps of Engineers, Vicksburg District. Automatic pumping sediment sampler since October 1991.

REMARKS.--No estimated daily discharges. Discharge records good. Satellite telemeter at station.

AVERAGE DISCHARGE.--8 years, 119 ft³/s, 17.00 in/yr.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum observed, 5,670 ft³/s, Feb. 11, 1994, maximum gage height, 19.30 ft, Apr. 23, 1995; minimum daily, 23 ft³/s, Sept. 17, 1999.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,810 mg/L, Dec. 12, 1998; minimum daily mean, 6 mg/L, Oct. 9, 1992.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 24,200 tons, Mar. 9, 1994; minimum daily, 0.56 ton, Oct. 9, 1992.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 5,160 ft³/s, Jan. 29, gage height, 19.21 ft; minimum daily, 23 ft³/s, Sept. 17.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,810 mg/L, Dec. 12; minimum daily mean, 28 mg/L, Nov. 8.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 23,500 tons, Dec. 12; minimum daily, 2.2 tons, Nov. 5.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)							SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)
		BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	
		% FINER THAN .062 MM (80164)	% FINER THAN .125 MM (80165)	% FINER THAN .250 MM (80166)	% FINER THAN .500 MM (80167)	% FINER THAN 1.00 MM (80168)	% FINER THAN 2.00 MM (80169)	% FINER THAN 4.00 MM (80170)	
JUN									
17...	1602	1	1	6	56	89	92	94	25.0
17...	1604	--	<1	5	40	76	85	90	50.0
17...	1606	<1	1	8	54	89	96	99	75.0

YAZOO RIVER BASIN

07287150 ABIACA CREEK NEAR SEVEN PINES, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	42	58	6.6	30	33	2.7	40	32	3.5
2	32	55	4.7	31	33	2.8	41	32	3.6
3	35	54	5.0	29	32	2.5	42	32	3.5
4	35	53	4.9	29	33	2.6	36	29	2.8
5	34	70	6.2	27	31	2.2	40	33	3.6
6	32	180	16	30	30	2.4	42	39	4.3
7	37	266	27	29	29	2.3	78	127	33
8	33	103	9.1	35	28	2.7	63	67	12
9	32	122	10	34	29	2.6	54	58	8.5
10	32	94	8.2	34	32	2.9	53	71	11
11	33	70	6.2	33	34	3.0	124	248	87
12	32	58	5.0	32	33	2.9	2430	2810	23500
13	31	69	5.7	33	32	2.8	1070	1000	2940
14	31	77	6.4	153	148	104	586	432	722
15	31	72	6.1	105	102	31	233	242	156
16	31	67	5.5	66	84	15	149	151	61
17	31	61	5.0	55	84	12	120	121	39
18	32	56	4.8	50	84	11	110	101	30
19	32	50	4.3	51	85	12	109	98	29
20	30	42	3.4	72	161	32	107	98	28
21	31	37	3.0	59	47	7.4	104	96	27
22	27	34	2.5	51	43	5.9	183	365	190
23	27	33	2.4	45	42	5.1	171	324	156
24	29	33	2.6	43	40	4.7	825	831	2210
25	29	34	2.6	42	39	4.4	274	208	160
26	28	34	2.6	46	38	4.7	169	136	62
27	27	34	2.5	44	36	4.3	145	111	44
28	29	34	2.6	43	35	4.1	1280	1250	5600
29	30	33	2.6	43	33	3.8	526	359	549
30	29	32	2.5	43	31	3.6	244	174	118
31	29	32	2.6	---	---	---	166	107	48
JANUARY			FEBRUARY			MARCH			
1	149	91	36	1010	513	1420	68	67	12
2	1010	767	3120	598	336	554	59	57	9.2
3	600	412	744	285	248	191	164	280	151
4	248	176	121	195	237	125	99	136	36
5	175	122	58	165	216	97	88	110	26
6	147	98	39	141	169	65	80	96	21
7	137	86	32	126	132	45	70	84	16
8	242	287	606	113	112	34	65	80	14
9	1700	1740	9560	104	122	34	158	280	126
10	625	531	938	102	124	34	100	139	38
11	271	311	232	97	144	38	76	117	24
12	186	193	98	90	165	40	69	126	24
13	154	138	57	88	159	38	428	890	1860
14	139	116	43	83	152	34	656	640	1380
15	129	101	35	77	147	30	250	159	109
16	121	96	32	71	166	32	130	130	46
17	117	92	29	77	199	41	102	115	32
18	112	88	27	74	221	44	88	114	27
19	105	87	25	74	222	45	77	114	24
20	100	91	24	73	185	37	73	112	22
21	98	92	25	69	152	28	68	110	20
22	691	1020	4980	65	126	22	62	109	18
23	1280	917	3620	61	118	19	58	129	20
24	431	429	518	57	116	18	55	150	22
25	229	246	155	61	108	18	76	148	31
26	163	169	75	61	98	16	78	145	30
27	137	130	48	60	87	14	66	146	26
28	122	132	44	82	78	17	63	150	25
29	1790	2060	19900	---	---	---	59	153	24
30	2450	1340	9130	---	---	---	56	156	23
31	1300	918	3230	---	---	---	58	159	25

07287150 ABIACA CREEK NEAR SEVEN PINES, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	57	155	24	52	189	27	57	87	13
2	55	152	23	51	200	27	45	76	9.4
3	57	158	25	49	197	26	42	71	8.0
4	896	925	2470	47	166	21	43	77	8.9
5	409	266	310	162	411	1180	43	74	8.5
6	174	167	80	2200	2200	15300	45	70	8.5
7	120	131	42	810	541	1220	42	69	7.9
8	98	149	40	413	344	390	40	73	7.8
9	88	120	29	263	225	162	39	77	8.1
10	84	107	24	150	149	61	39	82	8.6
11	78	100	21	106	122	35	42	88	10
12	70	94	18	86	114	26	42	93	11
13	66	86	15	78	128	27	54	152	25
14	64	85	15	70	138	26	48	109	14
15	466	865	1340	60	129	21	87	221	67
16	149	289	121	61	120	20	50	99	13
17	84	174	40	58	108	17	42	67	7.6
18	72	118	23	54	113	17	38	64	6.5
19	65	89	16	51	121	17	39	66	7.0
20	59	94	15	51	118	16	42	68	7.7
21	57	104	16	52	112	16	38	73	7.4
22	58	120	19	49	98	13	35	83	7.8
23	55	138	21	51	85	12	36	89	8.6
24	53	141	20	49	77	10	39	77	8.2
25	54	140	20	45	78	9.4	81	154	36
26	55	145	22	47	77	9.7	73	112	22
27	59	153	24	46	71	8.7	59	71	11
28	53	161	23	44	69	8.0	51	61	8.5
29	51	170	23	46	77	9.6	48	54	7.0
30	49	180	24	51	87	12	47	47	5.9
31	---	---	---	58	96	15	---	---	---
JULY			AUGUST			SEPTEMBER			
1	40	41	4.4	33	53	4.7	30	60	4.9
2	40	38	4.1	32	51	4.5	30	58	4.7
3	41	42	4.7	29	55	4.3	29	57	4.5
4	43	47	5.5	27	53	3.9	32	53	4.5
5	41	52	5.8	26	62	4.3	32	49	4.2
6	39	49	5.2	30	67	5.4	29	46	3.6
7	41	53	6.1	31	59	4.9	27	52	3.8
8	51	107	15	30	51	4.2	31	75	6.1
9	44	77	9.3	30	47	3.8	34	59	5.5
10	41	62	6.9	32	48	4.1	27	50	3.7
11	43	50	5.7	30	50	4.1	27	58	4.2
12	41	42	4.6	27	51	3.8	30	67	5.5
13	36	84	8.9	30	51	4.1	29	74	5.8
14	37	67	6.7	30	47	3.8	29	72	5.6
15	42	62	6.9	29	43	3.4	25	89	5.8
16	37	59	5.8	27	40	2.9	25	190	12
17	43	100	14	27	40	2.9	23	319	20
18	43	114	19	28	45	3.4	27	209	15
19	66	290	68	28	47	3.6	28	122	9.2
20	39	91	9.6	28	49	3.7	26	92	6.4
21	38	91	9.5	28	48	3.5	26	139	9.5
22	40	69	7.3	29	47	3.7	26	170	12
23	36	54	5.2	29	46	3.6	24	115	7.4
24	31	54	4.5	34	52	4.9	24	77	5.0
25	35	53	5.1	34	71	6.5	26	59	4.2
26	34	56	5.2	31	63	5.2	28	45	3.4
27	35	71	6.6	28	57	4.4	25	38	2.6
28	31	80	6.7	31	59	5.0	25	40	2.7
29	32	70	6.1	30	61	5.0	56	140	22
30	31	61	5.1	29	63	5.0	37	53	5.4
31	33	57	5.1	30	64	5.2	---	---	---

07287160 ABIACA CREEK AT CRUGER, MS

LOCATION.--Lat 33°20'29", long 90°14'13", in NE¹/₄ NW¹/₄ sec.18, T.17 N., R.1 E., Choctaw Meridian, Holmes County, Hydrologic Unit 08030206, on left bank at downstream side of bridge on State Highway 49E, 1.0 mi north of Cruger.

DRAINAGE AREA.--95.7 mi².

PERIOD OF RECORD.--Water years 1992 to current year.

PERIOD OF DAILY RECORD.--

DISCHARGE: October 1991 to current year.

SUSPENDED SEDIMENT CONCENTRATION: October 1991 to current year.

SUSPENDED SEDIMENT DISCHARGE: October 1991 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 116.52 ft above sea level. Automatic pumping sediment sampler since October 1991.

REMARKS.--No estimated daily discharges. Discharge records good. Satellite telemeter at station.

AVERAGE DISCHARGE.--8 years, 104 ft³/s, 14.8 in/yr.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 3,440 ft³/s, Apr. 23, 1995, gage height, 11.77 ft; minimum daily mean, 20 ft³/s, Sept. 17, 1999.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 3,320 mg/L, Feb. 15, 1992; minimum daily mean, 1.0 mg/L, Oct. 22, 1992.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 16,700 tons, Apr. 23, 1996; minimum daily, 0.13 ton, Oct. 22, 1992.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 2,880 ft³/s, Jan. 30, gage height, 11.63 ft; minimum daily mean, 20 ft³/s, Sept. 17.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 1,300 mg/L, Jan. 9; minimum daily mean, 27 mg/L Oct. 26-27.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 6,520 tons, Jan. 9; minimum daily, 1.7 tons, Oct. 27, 31, Nov. 5.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)							SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK) (00002)
		BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	
		% FINER THAN .062 MM (80164)	% FINER THAN .125 MM (80165)	% FINER THAN .250 MM (80166)	% FINER THAN .500 MM (80167)	% FINER THAN 1.00 MM (80168)	% FINER THAN 2.00 MM (80169)	% FINER THAN 4.00 MM (80170)	
JUN									
17...	1645	39							
17...	1647	1	1	9	84	99	99	100	25.0
17...	1649	2	2	18	92	99	99	100	50.0
17...	1651	1	1	7	84	99	100	--	75.0

YAZOO RIVER BASIN

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07287160 ABIACA CREEK AT CRUGER, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	42	228	26	24	30	1.9	31	28	2.4
2	28	46	3.5	25	39	2.7	30	28	2.3
3	29	40	3.1	23	32	2.0	33	29	2.6
4	30	40	3.2	24	30	1.9	28	29	2.2
5	28	40	3.0	21	30	1.7	31	29	2.5
6	24	42	2.8	24	30	1.9	33	30	2.7
7	33	206	19	25	30	2.0	62	139	31
8	28	78	5.9	34	45	4.2	62	113	20
9	26	56	3.9	33	34	3.1	46	62	7.7
10	27	53	3.9	31	40	3.4	43	53	6.2
11	29	51	4.0	30	54	4.4	91	354	96
12	27	48	3.5	28	49	3.7	1840	1120	5740
13	25	43	2.8	29	43	3.4	1210	551	1860
14	25	39	2.5	96	289	141	611	258	424
15	25	39	2.7	121	366	142	249	176	119
16	24	40	2.6	61	120	20	143	124	49
17	24	40	2.6	47	69	8.8	96	94	25
18	25	41	2.8	41	50	5.6	78	87	18
19	27	42	3.0	41	43	4.7	73	89	18
20	25	39	2.6	57	141	25	68	90	17
21	25	37	2.5	53	89	13	68	91	17
22	22	35	2.1	44	43	5.1	160	273	132
23	22	33	2.0	39	32	3.3	164	250	111
24	25	31	2.1	35	30	2.8	846	968	2460
25	25	29	2.0	32	30	2.6	315	326	293
26	26	27	1.9	37	29	2.9	175	160	77
27	23	27	1.7	36	29	2.8	134	101	37
28	26	28	1.9	33	29	2.6	1160	1080	4100
29	25	28	1.9	34	28	2.6	573	337	564
30	25	29	2.0	34	28	2.6	249	194	132
31	22	29	1.7	---	---	---	155	103	44
JANUARY			FEBRUARY			MARCH			
1	128	75	26	798	436	943	71	136	26
2	805	533	1940	637	293	507	57	111	17
3	723	352	756	370	203	206	129	199	74
4	273	154	117	259	137	96	94	123	32
5	181	104	51	223	117	70	71	93	18
6	142	89	34	172	106	49	65	81	14
7	127	79	27	148	96	38	55	70	10
8	147	135	61	130	89	31	49	61	8.1
9	1710	1300	6520	113	105	32	127	165	62
10	680	461	898	103	124	35	104	112	32
11	299	233	192	95	127	32	75	93	19
12	196	162	86	90	128	31	68	84	15
13	151	125	51	87	128	30	233	424	379
14	130	109	38	84	129	29	516	538	792
15	117	96	30	80	132	29	267	271	199
16	108	85	25	72	145	28	157	193	82
17	102	79	22	77	161	34	118	163	52
18	96	77	20	75	180	36	98	138	37
19	88	74	18	74	195	39	84	119	27
20	81	72	16	72	182	36	79	109	23
21	79	71	15	70	166	31	73	101	20
22	390	500	1690	68	151	28	65	97	17
23	1460	964	4240	61	138	23	56	94	14
24	482	362	489	56	125	19	52	91	13
25	271	237	176	59	115	18	75	217	47
26	188	186	95	61	112	19	87	306	73
27	151	162	66	58	112	17	65	229	40
28	130	140	49	76	169	35	61	201	33
29	1030	995	6270	---	---	---	55	184	27
30	1620	1160	5450	---	---	---	49	179	24
31	948	646	1670	---	---	---	52	177	25

YAZOO RIVER BASIN

07287160 ABIACA CREEK AT CRUGER, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	52	175	25	52	183	26	65	108	19
2	49	173	23	53	176	25	48	92	12
3	47	172	22	50	168	23	44	89	10
4	513	822	1400	47	164	21	42	145	17
5	342	285	280	51	183	26	41	131	15
6	171	183	85	1320	1160	4130	44	141	17
7	114	158	49	663	505	954	42	150	17
8	90	157	38	341	251	235	37	151	15
9	77	234	49	241	185	121	35	134	13
10	71	141	27	176	159	76	35	149	14
11	65	96	17	131	137	49	36	180	18
12	57	88	14	110	120	36	40	222	24
13	52	81	11	96	116	30	53	152	21
14	48	80	11	86	115	27	51	107	15
15	308	962	940	71	113	22	82	365	96
16	185	306	161	71	112	21	51	158	22
17	102	185	51	68	110	20	41	82	9.0
18	79	158	34	64	109	19	36	67	6.5
19	68	135	25	59	107	17	35	71	6.8
20	59	116	18	58	106	16	40	81	8.8
21	55	100	15	60	104	17	39	85	8.8
22	57	97	15	54	102	15	33	97	8.6
23	54	98	14	59	101	16	33	76	6.8
24	52	99	14	57	99	15	37	93	9.4
25	56	99	15	51	98	13	76	227	49
26	56	100	15	60	96	16	80	166	36
27	64	376	66	56	95	14	63	95	16
28	54	262	39	49	93	12	51	75	10
29	52	206	29	48	92	12	48	74	9.7
30	50	192	26	54	91	13	46	77	9.6
31	---	---	---	64	119	21	---	---	---
JULY			AUGUST			SEPTEMBER			
1	40	50	5.4	30	57	4.7	23	49	3.1
2	36	44	4.3	30	56	4.6	24	67	4.3
3	36	75	7.4	29	54	4.2	24	92	6.0
4	41	93	10	27	53	3.8	25	75	4.9
5	39	81	8.5	23	52	3.2	27	56	4.1
6	35	68	6.5	26	51	3.5	26	50	3.4
7	34	62	5.7	27	49	3.5	23	44	2.7
8	50	160	23	27	48	3.5	22	55	3.6
9	43	81	9.3	27	47	3.4	34	79	7.3
10	40	65	7.0	28	46	3.5	24	48	3.1
11	38	57	5.9	27	45	3.3	23	48	2.9
12	43	51	5.8	23	44	2.7	26	52	3.7
13	33	67	6.3	26	43	3.0	26	56	4.0
14	34	58	5.4	25	42	2.8	25	61	4.2
15	38	54	5.5	26	41	2.9	23	66	4.1
16	35	51	4.9	24	40	2.6	21	71	4.1
17	37	58	6.2	22	39	2.3	20	77	4.3
18	45	84	11	23	39	2.4	23	81	5.0
19	70	183	39	23	38	2.4	25	84	5.8
20	41	123	14	23	38	2.4	25	87	5.8
21	36	69	6.7	22	38	2.2	23	84	5.3
22	39	52	5.5	24	37	2.5	23	81	5.1
23	35	47	4.5	24	37	2.4	21	77	4.3
24	30	44	3.6	27	68	5.2	22	74	4.3
25	33	43	3.8	31	66	5.6	23	70	4.3
26	33	42	3.8	27	47	3.4	24	67	4.4
27	33	42	3.8	24	42	2.8	25	64	4.3
28	29	96	7.4	25	37	2.5	22	61	3.7
29	29	329	26	25	35	2.4	50	295	46
30	28	119	9.2	24	39	2.5	40	246	27
31	30	59	4.8	23	43	2.7	---	---	---

07287355 FANNEGUSHA CREEK NEAR HOWARD, MS

LOCATION.--Lat 33°08'17", long 90°11'46", in NW1/4 NE1/4 sec.28, T.15 N., R.1 E., Choctaw Meridian, Holmes County, Hydrologic Unit 08030206, on downstream side of bridge on paved county road, 0.9 mi north of Howard and 2.2 mi south of State Highway 12.

DRAINAGE AREA.--107 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1987 to current year. August 1953 to February 1966 (annual maximums only). Occasional discharge measurements since 1947 in files of U.S. Army Corps of Engineers.

REVISED RECORDS.--WDR MS-92-1: 1955 (M), Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 123.79 ft above sea level, (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Oct. 26 - Nov. 18. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec. 12	1645	6,510	19.15	Jan. 30	0215	6,910	19.53
Jan. 9	0830	4,550	17.05	May 6	1345	*7,630	*20.18
Jan. 23	0230	6,390	19.03				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	e20	19	36	576	23	45	28	110	28	18	14
2	17	e18	19	1750	380	39	38	27	48	26	18	14
3	18	e17	19	677	284	1070	36	26	39	25	17	15
4	20	e17	19	131	175	84	1040	26	36	25	17	15
5	18	e17	19	49	74	46	325	284	34	24	17	15
6	18	e17	19	37	60	40	96	5540	32	24	16	15
7	21	e17	24	35	52	36	65	1010	31	24	16	15
8	20	e32	29	125	44	35	53	558	31	25	16	15
9	18	e70	40	2860	38	574	47	205	30	24	16	15
10	18	e43	27	461	36	103	44	135	30	23	27	15
11	18	e36	144	132	33	59	40	113	30	45	28	14
12	17	e29	4550	61	32	50	37	108	30	29	15	14
13	18	e27	1220	46	31	997	35	136	30	24	15	14
14	18	e500	484	38	29	1430	54	93	47	23	15	14
15	18	e90	321	35	28	276	1670	77	304	23	15	14
16	17	e45	243	32	27	110	156	69	54	22	15	14
17	17	e26	157	30	27	78	71	64	34	22	15	14
18	17	e21	68	37	26	63	54	63	29	22	15	14
19	18	21	55	36	26	53	47	57	27	23	15	14
20	19	27	49	30	25	48	42	52	26	23	15	14
21	18	29	41	28	24	45	39	50	26	23	15	14
22	17	23	620	1480	23	42	36	49	25	22	15	14
23	17	21	130	3230	23	40	34	48	25	21	15	14
24	17	20	1440	617	22	39	32	46	25	21	17	14
25	17	20	300	297	22	52	32	44	29	21	19	15
26	e17	20	85	113	22	66	32	45	77	20	16	15
27	e17	19	61	72	22	43	44	45	43	20	15	15
28	e17	19	1960	58	23	38	36	42	35	20	15	15
29	e17	19	480	2170	---	37	30	41	34	21	15	29
30	e17	19	99	4530	---	37	29	136	32	19	15	29
31	e18	---	50	1270	---	43	---	132	---	19	15	---
TOTAL	551	1299	12791	20503	2184	5696	4339	9349	1383	731	513	462
MEAN	17.8	43.3	413	661	78.0	184	145	302	46.1	23.6	16.5	15.4
MAX	21	500	4550	4530	576	1430	1670	5540	304	45	28	29
MIN	17	17	19	28	22	23	29	26	25	19	15	14
MED	18	21	68	72	28	48	43	63	32	23	15	14
AC-FT	1090	2580	25370	40670	4330	11300	8610	18540	2740	1450	1020	916
CFSM	.17	.40	3.86	6.18	.73	1.72	1.35	2.82	.43	.22	.15	.14
IN.	.19	.45	4.45	7.13	.76	1.98	1.51	3.25	.48	.25	.18	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1999, BY WATER YEAR (WY)

	MEAN	28.6	59.8	220	290	304	310	320	178	149	80.3	42.4	43.8
MAX	78.7	188	756	661	733	623	1635	524	618	304	123	153	
(WY)	1995	1990	1991	1999	1991	1997	1991	1991	1997	1989	1989	1994	
MIN	11.0	20.1	59.7	59.2	78.0	74.2	52.3	20.2	14.1	20.7	9.87	15.4	
(WY)	1988	1998	1990	1992	1999	1996	1998	1988	1988	1988	1988	1999	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1987 - 1999
ANNUAL TOTAL	53902	59801	
ANNUAL MEAN	148	164	172
HIGHEST ANNUAL MEAN			378
LOWEST ANNUAL MEAN			73.3
HIGHEST DAILY MEAN	4550	Dec 12	14700
LOWEST DAILY MEAN	16	Aug 25	6.9
ANNUAL SEVEN-DAY MINIMUM	17	Sep 1	8.1
INSTANTANEOUS PEAK FLOW			14000
INSTANTANEOUS PEAK STAGE			22.72
ANNUAL RUNOFF (AC-FT)	106900	118600	124800
ANNUAL RUNOFF (CFSM)	1.38	1.53	1.61
ANNUAL RUNOFF (INCHES)	18.74	20.79	21.88
10 PERCENT EXCEEDS	294	279	295
50 PERCENT EXCEEDS	29	29	36
90 PERCENT EXCEEDS	18	15	16

e Estimated

YAZOO RIVER BASIN

160

07287355 FANNEGUSHA CREEK NEAR HOWARD, MS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1987-96, 1999 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT CONCENTRATION: March 1987 to May 1989.

SUSPENDED SEDIMENT DISCHARGE: March 1987 to May 1989.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)							SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)
		BED MAT. SIEVE DIAM. % FINER THAN (80164)	BED MAT. SIEVE DIAM. % FINER THAN (80165)	BED MAT. SIEVE DIAM. % FINER THAN (80166)	BED MAT. SIEVE DIAM. % FINER THAN (80167)	BED MAT. SIEVE DIAM. % FINER THAN (80168)	BED MAT. SIEVE DIAM. % FINER THAN (80169)	BED MAT. SIEVE DIAM. % FINER THAN (80170)	
JUN	18...								
	0800								30
JUN	18...								
	0802	--	<1	5	43	71	80	90	25.0
	0804	--	<1	3	45	76	83	90	50.0
	0806	1	1	9	78	94	96	98	75.0

YAZOO RIVER BASIN

161

07287400 BLACK CREEK AT LEXINGTON, MS

LOCATION.--Lat 33°06'19", long 90°03'13". NE1/4 SE1/4 sec.35, T.15 N., R.2 E., Choctaw Meridian, Holmes County, Hydrologic Unit 08030206, 300 ft downstream of bridge on State Highway 17 in Lexington, 0.5 mi south of intersection of highways 17 and 12.

DRAINAGE AREA.--88.1 mi².

PERIOD OF RECORD.--February 1987 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 171.14 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec. 12	1315	4,880	18.61	Jan. 29	1945	7,260	22.37
Jan. 2	1230	3,150	14.93	Mar. 13	1900	3,350	15.40
Jan. 22	2045	*7,740	*22.93	May 6	0530	4,990	18.82

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	25	24	93	411	58	92	45	51	48	25	24
2	29	32	24	1610	283	272	72	45	44	40	25	23
3	28	29	24	589	208	1430	68	48	40	37	26	23
4	26	26	24	194	156	293	1240	70	38	38	25	32
5	24	26	24	123	119	145	377	227	37	35	25	41
6	28	26	24	103	102	122	171	3330	36	33	24	30
7	36	26	43	105	90	97	112	458	35	33	24	26
8	26	34	232	373	79	141	94	213	34	32	24	28
9	24	54	58	1580	71	666	83	144	33	31	25	27
10	23	44	44	369	67	165	75	117	35	30	27	26
11	23	36	353	169	65	95	68	116	35	41	25	25
12	23	33	3310	118	70	83	62	118	44	59	24	25
13	24	32	690	96	64	1290	59	128	50	34	24	25
14	23	223	171	82	58	1040	123	87	218	30	24	25
15	23	80	91	76	56	246	923	74	257	29	23	24
16	23	38	56	70	55	133	200	69	50	30	23	24
17	23	32	43	66	57	82	91	66	37	32	24	24
18	23	27	41	69	59	59	74	67	34	35	23	24
19	25	26	49	64	61	60	67	62	34	34	23	24
20	28	34	42	60	55	51	62	60	50	38	23	25
21	25	31	38	60	52	46	59	58	43	29	23	25
22	25	27	483	2910	49	43	55	93	39	28	23	25
23	25	26	332	3200	49	62	52	71	38	27	23	25
24	26	26	1430	585	48	102	50	56	39	27	34	25
25	26	25	287	367	48	394	50	53	41	29	32	25
26	26	24	140	280	47	144	72	345	76	27	26	25
27	26	24	113	229	119	84	86	73	81	28	24	25
28	25	24	1630	192	181	73	56	47	60	28	24	47
29	25	24	421	2810	---	67	49	134	423	27	24	953
30	25	24	173	3600	---	72	47	71	84	26	23	105
31	26	---	114	916	---	132	---	64	---	26	23	---
TOTAL	791	1138	10528	21158	2779	7747	4689	6609	2116	1021	765	1805
MEAN	25.5	37.9	340	683	99.2	250	156	213	70.5	32.9	24.7	60.2
MAX	36	223	3310	3600	411	1430	1240	3330	423	59	34	953
MIN	23	24	24	60	47	43	47	45	33	26	23	23
CFSM	.29	.43	3.85	7.75	1.13	2.84	1.77	2.42	.80	.37	.28	.68
IN.	.33	.48	4.45	8.93	1.17	3.27	1.98	2.79	.89	.43	.32	.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1999, BY WATER YEAR (WY)

	MEAN	47.8	75.0	151	241	242	245	220	141	127	78.4	48.6	49.3
MAX	162	223	340	683	497	374	864	302	621	253	113	110	
(WY)	1989	1990	1999	1999	1991	1991	1991	1989	1997	1989	1994	1994	
MIN	18.6	32.2	68.0	56.2	80.1	88.8	45.1	29.7	21.1	26.0	18.8	24.9	
(WY)	1988	1991	1994	1988	1996	1992	1987	1988	1988	1987	1987	1997	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1987 - 1999
ANNUAL TOTAL	48705	61146	140
ANNUAL MEAN	133	168	217
HIGHEST ANNUAL MEAN			69.4
LOWEST ANNUAL MEAN			1991
HIGHEST DAILY MEAN	3310	Dec 12	13000
LOWEST DAILY MEAN	23	Aug 25	11
ANNUAL SEVEN-DAY MINIMUM	23	Oct 10	15
INSTANTANEOUS PEAK FLOW			18600
INSTANTANEOUS PEAK STAGE			27.89
ANNUAL RUNOFF (CFSM)	1.51	22.93	1.59
ANNUAL RUNOFF (INCHES)	20.57	1.90	21.65
10 PERCENT EXCEEDS	266	285	238
50 PERCENT EXCEEDS	42	47	43
90 PERCENT EXCEEDS	25	24	23

YAZOO RIVER BASIN

07287404 HARLAND CREEK NEAR HOWARD, MS

LOCATION.--Lat 33°06'05", long 90°10'23". in NW¹/₄ SW¹/₄ sec.35, T.15 N., R.1 E., Choctaw Meridian, Holmes County, Hydrologic Unit 08030206, on right bank at downstream side of bridge on gravel road, 1.3 mi downstream from Williams Creek, 0.8 mi upstream from mouth, and 1.8 mi southeast of Howard.

DRAINAGE AREA.--62.1 mi².

PERIOD OF RECORD.--Water years 1987 to current year.

PERIOD OF DAILY RECORD.--

DISCHARGE: November 1986 to current year.

SPECIFIC CONDUCTANCE: December 1986 to February 1987.

pH: December 1986 to March 1987.

WATER TEMPERATURE: December 1986 to March 1987.

DISSOLVED OXYGEN: December 1986 to February 1987.

SUSPENDED SEDIMENT CONCENTRATION: December 1986 to current year.

SUSPENDED SEDIMENT DISCHARGE: December 1986 to current year.

INSTRUMENTATION.--Water-stage recorder and crest-stage gage. Datum of gage is 132.85 ft above sea level. Automatic pumping sediment sampler since December 1986.

REMARKS.--Estimated daily discharges: Oct. 27, Mar. 12-13, 17, 20-24, May 19-22, 24-25, June 8-10, 14, July 7, 12-13. Discharge records good except for estimated daily discharges, which are poor. Satellite telemeter at station. Unpublished records of daily specific conductance, pH, water temperature, and dissolved oxygen during selected storm events are available in files of District office.

AVERAGE DISCHARGE.--12 years, 92.6 ft³/s, 20.26 in/yr.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 7,440 ft³/s, Mar. 18, 1987, maximum gage height, 22.95 ft, Jan. 18-19, 1995; minimum, 5.6 ft³/s, Aug. 17-18, 1988.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 11,100 mg/L, Feb. 2, 1988; minimum daily mean, 1 mg/L, on several days in 1987-88, 1990, 1995.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 62,800 tons, Nov. 16, 1987; minimum daily, 0.02 ton, on several days in 1988.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 4,930 ft³/s, Jan. 29, gage height, 20.26 ft; minimum, 9.1 ft³/s, Nov. 4.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,230 mg/L, Sept. 30; minimum daily mean, 26 mg/L, Oct. 12.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 18,700 tons, Jan. 29; minimum daily, 0.70 ton, Nov. 5-6.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)							SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)
		BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	
		% FINER THAN .062 MM (80164)	% FINER THAN .125 MM (80165)	% FINER THAN .250 MM (80166)	% FINER THAN .500 MM (80167)	% FINER THAN 1.00 MM (80168)	% FINER THAN 2.00 MM (80169)	% FINER THAN 4.00 MM (80170)	
JUN									
18...	0900	1	2	7	38	64	68	76	25.0
18...	0904	1	2	22	60	74	80	87	50.0
18...	0906	1	2	12	48	63	66	73	75.0

07287404 HARLAND CREEK NEAR HOWARD, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	11	45	1.3	11	31	.89	14	32	1.2
2	11	48	1.4	12	33	1.0	14	30	1.2
3	12	43	1.4	9.6	37	.95	15	29	1.1
4	13	40	1.4	9.5	29	.74	14	28	1.0
5	12	39	1.3	9.6	27	.70	14	27	1.0
6	13	43	1.6	9.6	27	.70	15	27	1.1
7	16	58	2.6	10	139	3.8	18	27	1.3
8	12	48	1.6	13	74	2.6	56	182	42
9	12	39	1.2	16	106	4.6	21	97	5.8
10	12	32	1.0	14	156	6.2	18	150	7.7
11	13	28	1.0	13	55	1.9	119	555	330
12	12	26	.85	12	41	1.4	1930	2210	14000
13	12	27	.85	13	39	1.4	752	431	887
14	12	67	2.1	60	269	57	291	265	221
15	11	34	1.0	30	124	11	110	152	46
16	11	32	.98	20	61	3.3	63	93	16
17	12	30	.93	18	45	2.2	42	67	7.8
18	12	29	.95	17	37	1.7	32	53	4.6
19	12	28	.93	17	39	1.8	30	47	3.8
20	12	28	.91	19	42	2.2	26	45	3.1
21	11	28	.86	19	45	2.3	23	43	2.7
22	10	30	.86	18	41	1.9	139	665	388
23	11	34	.98	17	35	1.6	82	447	200
24	11	35	1.1	16	35	1.5	794	1680	4470
25	12	34	1.1	16	90	3.9	282	163	136
26	11	34	1.0	16	35	1.5	124	77	26
27	11	34	1.0	16	32	1.4	101	57	16
28	11	35	1.0	16	31	1.3	836	220	611
29	10	33	.91	16	33	1.4	301	95	79
30	10	31	.88	16	35	1.5	111	70	21
31	10	31	.86	---	---	---	67	63	11
JANUARY			FEBRUARY			MARCH			
1	48	61	7.9	683	693	1290	27	52	3.7
2	900	1040	4220	301	469	393	180	391	1290
3	513	237	357	137	299	112	1230	1510	6580
4	175	111	54	93	193	49	637	753	1310
5	89	92	22	70	139	26	249	459	325
6	63	85	14	53	103	15	105	234	68
7	49	82	11	44	78	9.3	64	136	24
8	140	551	387	38	60	6.2	68	128	40
9	1180	1560	6080	34	58	5.4	516	905	1530
10	434	352	425	32	60	5.2	180	219	111
11	169	287	133	31	55	4.6	91	152	38
12	93	167	43	32	60	5.2	61	125	21
13	63	100	17	30	55	4.5	583	1520	2390
14	48	77	10	29	47	3.7	751	605	1380
15	40	65	7.0	28	41	3.2	274	232	178
16	38	65	6.6	27	41	2.9	125	186	63
17	35	69	6.4	26	42	3.0	78	160	34
18	36	71	6.8	25	42	2.9	58	138	21
19	31	59	5.0	26	42	2.9	48	118	15
20	29	49	3.8	25	43	2.9	43	102	12
21	27	47	3.4	25	43	2.8	44	87	10
22	1200	1240	8530	24	43	2.7	40	75	8.1
23	1510	1110	5100	24	40	2.5	37	64	6.5
24	610	705	1190	23	38	2.3	35	56	5.2
25	218	349	217	23	38	2.4	244	412	401
26	107	188	56	24	40	2.5	109	126	39
27	75	115	23	30	51	4.6	64	73	13
28	59	89	14	34	53	5.0	50	61	8.2
29	1670	1760	18700	---	---	---	42	58	6.7
30	2110	1420	8550	---	---	---	40	58	6.2
31	927	872	2180	---	---	---	59	101	17

YAZOO RIVER BASIN

07287404 HARLAND CREEK NEAR HOWARD, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	56	72	11	24	43	2.8	23	117	7.3
2	47	59	7.4	23	40	2.5	21	82	4.8
3	41	63	7.3	23	39	2.4	21	64	3.6
4	905	1190	3630	25	47	3.2	19	74	3.8
5	379	343	375	69	160	143	19	75	3.9
6	157	190	82	783	820	1860	19	100	5.2
7	90	132	32	96	246	67	18	68	3.4
8	66	104	19	60	128	21	17	171	7.6
9	54	94	14	45	81	9.9	18	122	6.0
10	46	86	11	36	59	5.7	19	123	6.2
11	40	79	8.6	35	59	5.7	20	76	4.1
12	35	73	7.0	36	61	5.9	21	68	3.8
13	32	67	5.9	32	53	4.7	24	266	19
14	37	75	9.2	28	44	3.4	29	484	39
15	195	272	179	26	43	3.0	22	160	9.7
16	86	96	22	25	41	2.8	22	84	5.0
17	56	74	11	24	40	2.6	21	63	3.6
18	43	62	7.2	25	41	2.8	21	58	3.3
19	36	56	5.5	24	42	2.7	21	77	4.3
20	32	51	4.4	24	44	2.8	21	68	3.8
21	30	50	3.9	24	45	2.9	21	64	3.6
22	28	49	3.7	23	46	2.9	21	60	3.4
23	27	49	3.5	24	47	3.0	22	55	3.3
24	26	48	3.3	23	49	3.0	22	49	2.9
25	25	48	3.2	23	54	3.3	22	54	3.3
26	30	54	4.7	41	1380	222	25	99	6.7
27	41	97	11	28	318	25	25	87	6.0
28	28	69	5.3	24	80	5.2	23	90	5.8
29	26	56	3.9	31	118	12	33	569	61
30	25	49	3.3	27	320	25	25	108	7.5
31	---	---	---	25	157	11	---	---	---
JULY			AUGUST			SEPTEMBER			
1	22	80	4.8	17	66	3.0	21	41	2.4
2	22	53	3.1	17	59	2.7	13	33	1.1
3	21	51	3.0	17	67	3.1	13	37	1.3
4	22	53	3.1	17	82	3.7	14	47	1.8
5	22	54	3.2	17	94	4.2	15	71	2.9
6	21	59	3.4	17	86	3.9	15	67	2.7
7	24	59	3.7	16	80	3.6	14	49	1.9
8	22	63	3.8	16	79	3.5	15	75	3.0
9	21	64	3.6	16	78	3.5	15	74	3.0
10	21	61	3.4	24	150	19	13	56	2.0
11	44	91	34	42	372	65	13	49	1.7
12	60	135	41	17	89	4.1	15	48	1.9
13	20	57	3.1	16	68	3.0	14	49	1.9
14	19	66	3.3	16	60	2.6	13	49	1.7
15	18	111	5.5	16	49	2.1	13	49	1.7
16	18	88	4.3	16	46	2.0	13	50	1.7
17	21	169	10	16	38	1.6	13	77	2.7
18	18	126	6.1	16	35	1.5	14	92	3.5
19	19	82	4.1	14	35	1.3	15	106	4.3
20	19	71	3.6	14	40	1.5	15	106	4.3
21	18	77	3.7	15	40	1.7	15	97	4.0
22	16	71	3.0	16	37	1.5	15	100	4.0
23	16	68	2.9	16	39	1.6	15	104	4.2
24	17	66	3.0	17	33	1.5	15	102	4.2
25	20	104	5.9	17	29	1.3	15	89	3.6
26	19	99	5.0	16	35	1.5	14	82	3.1
27	19	120	7.0	16	45	1.9	14	86	3.2
28	35	560	65	16	44	1.9	15	105	4.4
29	16	155	6.7	16	37	1.5	237	2230	2630
30	16	66	2.8	19	44	2.4	18	635	35
31	16	69	3.0	24	62	4.1	---	---	---

07288280 BIG SUNFLOWER RIVER NEAR MERIGOLD, MS
(National Water-Quality Assessment station)

LOCATION.--Lat 33°49'57", long 90°40'12", in SW1/4 NW1/4 sec.24, T.23 N., R.5 W., Choctaw Meridian, Bolivar County, Hydrologic Unit 03080207, County Code 011, at county road bridge 3.0 mi west of U.S. Highway 61 south of Merigold about 0.1 mi and about 89.6 mi upstream from the mouth.

DRAINAGE AREA.--553 mi².

PERIOD OF RECORD.--Oct. 1992 to current year.

REVISED RECORDS.--WDR-MS-97-1: 1996.

GAGE.--Water stage recorder. Datum of gage is 100.00 ft above sea level (Mississippi Department of Transportation datum).

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	40	38	401	6320	68	336	699	1140	1700	367	102
2	42	44	37	1990	5890	72	402	421	904	1670	380	124
3	40	46	36	3050	5370	84	401	262	566	1600	374	143
4	35	44	35	3060	4800	66	2180	186	304	1450	353	147
5	26	41	35	2800	4150	58	3160	542	213	1220	342	176
6	21	41	36	2440	3530	88	3930	1730	179	922	321	184
7	23	43	37	2010	2980	453	3850	2060	154	694	317	224
8	27	49	38	1600	2500	483	3400	1940	138	674	329	190
9	30	50	50	2080	2060	548	2890	1600	143	642	343	142
10	33	59	74	2240	1620	591	2380	1060	143	587	362	114
11	35	73	225	2020	1320	405	1860	553	152	823	421	93
12	35	64	1030	1680	1080	252	1250	294	270	1280	443	89
13	35	47	1470	1220	841	1620	672	200	264	1440	411	83
14	35	51	1300	677	640	4240	364	170	505	1420	389	78
15	37	49	863	321	440	4900	529	137	706	1220	367	72
16	34	45	418	177	306	4780	485	106	835	871	338	66
17	32	40	175	121	240	4330	290	88	876	631	307	52
18	31	36	92	88	205	3760	199	97	746	537	319	46
19	30	35	103	69	178	3140	159	113	500	498	335	45
20	29	42	142	59	169	2580	132	138	333	460	326	46
21	28	56	117	63	158	2060	124	155	284	413	320	56
22	27	53	243	2430	140	1530	106	151	261	403	313	54
23	27	44	330	4600	109	940	82	207	262	395	291	49
24	27	41	327	4790	84	502	71	208	289	388	304	51
25	26	40	260	4320	78	340	64	170	350	381	401	49
26	28	42	245	3630	69	294	217	140	665	402	435	47
27	33	41	447	2880	63	253	997	118	1150	410	351	48
28	34	40	1010	2260	68	215	1270	101	1420	407	267	50
29	34	38	1320	2940	---	184	1250	88	1610	392	216	51
30	34	38	1080	5330	---	188	1060	95	1690	377	169	67
31	35	---	676	6440	---	234	---	672	---	364	127	---
TOTAL	984	1372	12289	67786	45408	39258	34110	14501	17052	24671	10338	2738
MEAN	31.7	45.7	396	2187	1622	1266	1137	468	568	796	333	91.3
MAX	42	73	1470	6440	6320	4900	3930	2060	1690	1700	443	224
MIN	21	35	35	59	63	58	64	88	138	364	127	45
CFSM	.06	.09	.74	4.10	3.04	2.38	2.13	.88	1.07	1.49	.63	.17
IN.	.07	.10	.86	4.73	3.17	2.74	2.38	1.01	1.19	1.72	.72	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1999, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999
MEAN	97.5	261	892	1629	1384	1526	801
MAX	250	737	1557	2344	3968	2853	1445
(WY)	1998	1994	1997	1998	1994	1997	1993
MIN	22.1	15.6	396	702	269	220	277
(WY)	1996	1996	1999	1996	1993	1994	1996

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1993 - 1999

	1998	1999	1993-1999
ANNUAL TOTAL	211935	270507	768
ANNUAL MEAN	581	741	1175
HIGHEST ANNUAL MEAN			390
LOWEST ANNUAL MEAN			1175
HIGHEST DAILY MEAN	4450	Jan 16	6440
LOWEST DAILY MEAN	21	Oct 6	21
ANNUAL SEVEN-DAY MINIMUM	27	Oct 20	27
INSTANTANEOUS PEAK FLOW			6490
INSTANTANEOUS PEAK STAGE			30.75
INSTANTANEOUS LOW FLOW			20
ANNUAL RUNOFF (CFSM)	1.09	1.39	1.44
ANNUAL RUNOFF (INCHES)	14.79	18.88	19.59
10 PERCENT EXCEEDS	2000	2200	2420
50 PERCENT EXCEEDS	190	267	262
90 PERCENT EXCEEDS	38	38	39

YAZOO RIVER BASIN

07288650 BOGUE PHALIA NEAR LELAND, MS
(National Water-Quality Assessment station)

LOCATION.--Lat 33°23'49", long 90°50'42", in SW1/4 NW1/4 sec.20, T.18 N., R.6 W., Choctaw Meridian, Washington County, Hydrologic Unit 03030207, County Code 151, at county road bridge 2.7 mi east of Leland and 1.5 mi downstream of U.S. Highway 82.

DRAINAGE AREA.--484 mi², U.S. Army Corps of Engineers.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1, 1995 to current year. Nov. 13, 1945, to September 29, 1992, stage data available; November 1945 to date, measured discharge available; November 14, 1945, to December 31, 1946, daily discharge available in U.S. Army Corps of Engineer's records.

GAGE.--Water stage recorder. Datum of gage is 86.21 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Nov. 7-25 and May 1-5. Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE OF PERIOD OF RECORD: Maximum gage height 28.80 ft, Feb. 22, 1991, by U.S. Army Corps of Engineers.

REVISIONS.--Revised figures of discharge for the water year 1998, superseding those published in the report for 1998 are given below.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	e1880	627	182	314	1390	48	1810	2820	180	204	54
2	28	e1620	204	132	299	748	47	802	1330	188	181	48
3	25	e1250	145	104	219	438	55	375	583	182	164	47
4	23	e800	276	85	169	265	142	195	276	187	169	50
5	22	e410	221	499	139	227	120	122	295	216	157	50
6	21	e250	146	1290	139	282	89	88	1070	278	146	42
7	21	e120	107	3720	166	1070	71	73	962	353	164	40
8	22	e227	99	6250	134	5190	57	67	654	352	247	38
9	22	e170	160	6170	98	5550	48	59	447	291	334	39
10	23	e105	196	4630	96	3850	46	57	330	244	339	36
11	24	e77	169	2870	479	2030	48	59	238	220	336	36
12	23	e62	122	2820	593	1020	47	62	179	308	404	45
13	24	e53	90	3320	404	612	42	63	151	1280	516	126
14	52	e50	71	2580	274	356	41	68	146	2110	593	291
15	62	e68	59	1890	196	222	38	69	145	2080	642	290
16	e45	e175	53	3950	1600	181	37	71	138	1520	672	168
17	e35	e162	50	4180	3930	1290	35	69	132	978	592	93
18	e27	e111	49	2800	3920	1700	40	76	126	643	451	62
19	e24	e90	48	1710	2620	960	239	80	117	443	368	45
20	e23	e70	46	1150	1370	526	330	75	131	331	311	38
21	e22	e62	342	846	761	317	155	75	142	253	281	33
22	e37	e52	1560	e2400	517	204	86	85	146	196	220	29
23	e100	e45	1390	e3450	805	145	62	87	138	178	164	28
24	e375	e40	3430	2660	651	113	46	92	136	226	124	27
25	e2250	38	4990	1470	474	94	40	91	142	357	99	25
26	e3400	e36	4170	885	673	75	37	94	144	472	87	22
27	e3320	e34	2630	1320	2530	66	36	85	159	540	84	20
28	e2820	e37	1330	1340	2440	61	1830	85	166	473	74	19
29	e2100	562	694	902	---	55	4160	2000	176	363	72	19
30	e1370	949	427	575	---	51	3430	4780	177	288	69	18
31	e1490	---	272	406	---	50	---	4430	---	245	60	---
TOTAL	17863	9605	24173	66586	26010	29138	11502	16244	11796	15975	8324	1878
MEAN	576	320	780	2148	929	940	383	524	393	515	269	62.6
MAX	3400	1880	4990	6250	3930	5550	4160	4780	2820	2110	672	291
MIN	21	34	46	85	96	50	35	57	117	178	60	18
CFSM	1.19	.66	1.61	4.44	1.92	1.94	.79	1.08	.81	1.06	.55	.13
IN.	1.37	.74	1.86	5.12	2.00	2.24	.88	1.25	.91	1.23	.64	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

	1996	1997	1998	1996	1997	1998	1996	1997	1998
MEAN	225	247	958	1456	815	1143	712	634	704
MAX	576	413	1384	2148	1279	2135	1081	1338	1360
(WY)	1998	1997	1997	1998	1997	1997	1997	1997	1997
MIN	6.73	6.84	710	498	256	354	38.9	358	296
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1996

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1996 - 1998
ANNUAL TOTAL	339051	239094	
ANNUAL MEAN	929	655	649
HIGHEST ANNUAL MEAN			947
LOWEST ANNUAL MEAN			346
HIGHEST DAILY MEAN	7680	Mar 3	7680
LOWEST DAILY MEAN	21	Oct 6	6.3
ANNUAL SEVEN-DAY MINIMUM	22	Oct 4	6.4
INSTANTANEOUS PEAK FLOW		6550	8040
INSTANTANEOUS PEAK STAGE		23.52	25.18
INSTANTANEOUS LOW FLOW		21	6.1
ANNUAL RUNOFF (CFSM)	1.92	1.35	1.34
ANNUAL RUNOFF (INCHES)	26.06	18.38	18.22
10 PERCENT EXCEEDS	2800	2100	1880
50 PERCENT EXCEEDS	347	169	196
90 PERCENT EXCEEDS	46	37	18

e Estimated

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued
(National Water-Quality Assessment station)DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	17	24	550	9390	322	235	e160	1150	602	174	106
2	17	18	24	3660	9350	181	199	e120	914	436	173	79
3	17	18	25	6420	8590	207	155	e130	681	350	161	65
4	17	18	25	6240	6600	246	2110	e220	407	310	151	62
5	17	18	26	4690	4650	160	4790	e858	228	301	137	58
6	17	18	26	2810	3010	163	5080	2600	151	263	133	49
7	16	e23	28	1450	2060	134	3900	2450	116	215	144	46
8	16	e26	27	1000	1560	98	2070	1460	101	272	164	47
9	16	e29	26	3030	1240	99	934	693	95	444	186	51
10	16	e30	29	3640	953	171	466	294	95	466	210	52
11	16	e32	179	2330	701	138	250	147	94	497	198	47
12	16	e36	1930	1170	475	150	150	94	95	776	213	37
13	16	e45	3570	639	309	1380	96	80	115	943	248	31
14	16	e64	2900	424	201	5420	144	59	444	816	273	27
15	16	e92	1580	317	146	6020	2220	50	1160	604	262	25
16	16	e80	787	234	131	4690	1460	45	1190	448	237	22
17	16	e56	425	173	138	2860	446	45	814	356	241	21
18	17	e40	233	134	151	1410	140	53	473	304	242	22
19	17	e29	161	104	146	710	83	84	281	285	247	22
20	17	e38	238	84	118	381	63	128	197	331	230	19
21	16	e58	243	75	104	212	53	118	179	326	212	18
22	16	e54	623	2900	99	140	46	92	166	293	181	16
23	16	e47	922	7410	91	98	41	71	160	255	170	16
24	16	e42	1140	7920	83	79	39	54	191	231	159	15
25	17	e36	1190	7470	94	80	37	48	347	216	165	15
26	17	33	892	5690	94	92	37	42	735	208	188	14
27	17	29	1020	3410	86	82	42	40	1580	191	209	14
28	17	27	1860	1690	257	71	230	39	1930	168	190	13
29	17	25	2040	3960	---	61	331	76	1430	158	141	13
30	17	24	1340	8570	---	54	207	129	918	169	114	12
31	17	---	764	9260	---	81	---	784	---	176	112	---
TOTAL	513	1102	24297	97454	50827	25937	26054	11263	16437	11410	5865	1034
MEAN	16.5	36.7	784	3144	1815	837	868	363	548	368	189	34.5
MAX	18	92	3570	9260	9390	6020	5080	2600	1930	943	273	106
MIN	16	17	24	75	83	54	37	39	94	158	112	12
CFSM	.03	.08	1.62	6.50	3.75	1.73	1.79	.75	1.13	.76	.39	.07
IN.	.04	.08	1.87	7.49	3.91	1.99	2.00	.87	1.26	.88	.45	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

	1996	1997	1998	1999
MEAN	173	194	914	1878
MAX	576	413	1384	3144
(WY)	1998	1997	1999	1999
MIN	6.73	6.84	710	498
(WY)	1996	1996	1996	1996

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1996 - 1999

ANNUAL TOTAL	213365	272193	673
ANNUAL MEAN	585	746	947
HIGHEST ANNUAL MEAN			346
LOWEST ANNUAL MEAN			9390
HIGHEST DAILY MEAN	6250	Jan 8	9390
LOWEST DAILY MEAN	16	Oct 7	12
ANNUAL SEVEN-DAY MINIMUM	16	Oct 7	14
INSTANTANEOUS PEAK FLOW			9430
INSTANTANEOUS PEAK STAGE			26.57
INSTANTANEOUS LOW FLOW			12
ANNUAL RUNOFF (CFSM)	1.21	1.54	1.39
ANNUAL RUNOFF (INCHES)	16.40	20.92	18.90
10 PERCENT EXCEEDS	1870	2090	1950
50 PERCENT EXCEEDS	146	151	180
90 PERCENT EXCEEDS	18	17	17

e Estimated

YAZOO RIVER BASIN

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1996 to January 1998.

WATER TEMPERATURE: July 1996 to January 1998.

INSTRUMENTATION.--Specific conductance and water temperature data logger from July 1996 to December 1998.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 13...	1100	27	6.7	7.8	640	21.0	--	138	74
NOV 19...	1015	48	6.2	7.5	355	14.5	--	164	100
DEC 07...	0845	29	6.8	7.8	490	19.5	--	115	100
FEB 16...	1400	130	11.5	7.5	195	12.0	--	177	98
MAR 17...	1100	2910	10.4	7.1	71	8.5	--	323	99
APR 30...	1045	220	6.7	7.2	191	21.5	--	187	99
MAY 14...	1000	62	5.3	7.0	231	23.0	--	322	100
JUN 17...	0930	852	5.4	7.3	308	26.5	--	129	99
JUL 21...	0930	327	6.2	7.8	485	30.5	--	79	100
AUG 30...	1340	107	6.5	7.8	695	29.5	22	136	87
SEP 09...	1100	50	5.6	7.8	714	27.5	--	143	88

DATE	TIME	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT 13...	1100	84	27	14	3.6	372	305	38	5.9	.23	22
NOV 19...	1015	36	11	12	6.4	94	77	58	11	.19	11
DEC 07...	0845	59	18	14	4.1	243	199	41	9.7	.20	14
FEB 16...	1400	21	6.8	8.0	3.2	76	63	12	5.5	.12	8.1
MAR 17...	1100	6.6	2.1	2.4	2.3	24	19	5.2	2.0	<.10	4.7
APR 30...	1045	20	5.7	8.1	4.5	81	66	9.6	6.5	.13	7.4
MAY 14...	1000	25	7.3	6.3	3.4	104	85	14	4.3	.18	11
JUN 17...	0930	32	10	12	4.0	120	98	32	5.3	<.10	11
JUL 21...	0930	56	19	19	3.3	222	182	41	5.5	.20	18
AUG 30...	1340	82	28	27	5.5	297	243	60	13	.26	21
SEP 09...	1100	80	28	26	5.1	297	243	71	12	.23	18

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT 13...	378	<.010	.060	.020	.55	.15	.086	<.050	.025	<10	224
NOV 19...	228	.066	2.91	.090	1.2	.76	.280	.057	.051	E7.6	44
DEC 07...	303	<.010	.093	.048	.68	.34	.138	E.032	.026	<10	118
FEB 16...	124	.019	.245	.090	1.2	.50	.288	.064	.055	41	44
MAR 17...	54	.013	1.17	.131	1.5	.56	.461	.075	.068	34	5.4
APR 30...	118	.025	.657	.077	1.2	.56	.305	.061	.054	11	22
MAY 14...	<10	.013	.948	.020	1.2	.43	<.050	.057	.044	<10	111
JUN 17...	185	.143	.863	.282	1.4	1.0	.187	.060	.043	E5.2	14
JUL 21...	298	.088	.890	.085	.85	.66	.131	.079	.058	<10	14
AUG 30...	425	<.010	<.050	<.020	.76	.44	.197	.136	.122	<10	8.9
SEP 09...	424	<.010	<.050	.062	.61	.32	.171	.112	.087	<10	13

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	METO- LACHLOR WATER, DISSOLV (UG/L) (39415)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
OCT 13...	<.0020	<.002	.013	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	.290
NOV 19...	<.0020	<.002	.067	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	.0925
DEC 07...	<.0020	<.002	.036	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	E.0731	<.0020	.158
FEB 16...	<.0020	<.002	.057	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	.0560
MAR 17...	<.0020	<.002	.036	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	<.0040
APR 30...	<.0100	<.010	2.39	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0300	.0551
MAY 14...	<.0020	.007	1.30	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	.255
JUN 17...	<.0020	<.002	.388	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0300	E47.9
JUL 21...	<.0020	<.002	.411	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	E.133	<.0020	3.07
AUG 30...	<.0020	<.002	.059	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	.159
SEP 09...	<.0020	<.010	.067	<.0030	<.0030	<.0070	<.0040	<.0020	<.0100	<.0030	<.0020	.178
DATE	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P, P' DDE DISSOLV (UG/L) (34653)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	LINDANE DIS- SOLVED (UG/L) (39341)
OCT 13...	<.0040	<.0200	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
NOV 19...	<.0040	.0161	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
DEC 07...	<.0040	.0074	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
FEB 16...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
MAR 17...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
APR 30...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
MAY 14...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
JUN 17...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
JUL 21...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	E.0030	<.0020	<.0020	<.0060	<.001	<.004
AUG 30...	<.0040	.0097	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	E.0045	<.001	<.004
SEP 09...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
DATE	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
OCT 13...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	<.005	<.0060	<.004	<.0020	<.0130	<.0050
NOV 19...	<.0010	<.0040	<.020	<.0170	<.0030	<.0030	.196	<.0060	<.004	<.0020	<.0130	<.0500
DEC 07...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	<.005	<.0060	<.004	<.0020	<.0130	<.0050
FEB 16...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	<.005	<.0060	<.004	<.0020	<.0130	<.0050
MAR 17...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	<.005	<.0060	<.004	<.0020	<.0130	<.0050
APR 30...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	<.005	<.0060	<.004	<.0020	<.0130	<.0050
MAY 14...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	<.005	<.0060	<.004	<.0020	<.0130	<.0050
JUN 17...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	.017	<.0060	<.004	<.0020	<.0130	<.0050
JUL 21...	<.0200	<.0040	<.002	<.0170	<.0030	<.0030	.014	<.0060	<.004	<.0020	<.0130	<.0050
AUG 30...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	.040	<.0060	<.004	<.0020	<.0130	<.0050
SEP 09...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	.363	<.100	<.004	<.0020	<.0130	<.0050

YAZOO RIVER BASIN

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)
OCT 13...	.011	<.0020	<.0040	<.004	<.0180	.0355	<.0070	<.0020	<.0200	<.0030	<.200
NOV 19...	.013	E.0036	.0225	<.004	<.0180	.111	<.0070	<.0020	<.0100	<.0030	<.0130
DEC 07...	.009	<.0020	<.0040	<.004	<.0180	<.0050	<.0070	<.0020	.0140	<.0030	<.0130
FEB 16...	.015	<.0020	<.0040	<.004	<.0180	.0179	<.0070	<.0020	<.0300	<.0030	<.0130
MAR 17...	.050	<.0020	<.0500	<.004	<.0180	.0509	<.0070	<.0020	<.0100	<.0030	<.0130
APR 30...	2.28	E.0511	.133	<.004	<.0180	.0282	<.0070	<.0020	<.0100	<.0030	<.0130
MAY 14...	1.40	E.0821	.171	.188	<.0180	<.0050	<.0070	<.0020	<.0100	<.0030	<.0130
JUN 17...	.168	E.0148	.0563	.027	<.0180	<.0050	<.0070	<.0020	<.0100	<.0030	<.0130
JUL 21...	.048	E.0099	18.5	<.004	<.0180	.115	<.0070	<.0020	<.0100	<.0030	<.0200
AUG 30...	.006	E.0023	.0326	<.004	<.0180	<.0050	<.0070	.0079	<.0100	<.0030	<.0500
SEP 09...	.007	<.0020	.0099	<.004	<.0180	<.0050	<.0070	<.0020	<.0100	<.0030	<.0130

FISH TISSUE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

		ALDRIN, BIOTA, WH ORG WW, REC (UG/KG) (49353)	ALPHA- BHC, BIOTA, WH ORG WW, REC (UG/KG) (49366)	BENZENE HEXA- CHLORO- BIOTA, WH ORG WW, REC (UG/KG) (49367)	BETA- BHC, BIOTA, WH ORG WW, REC (UG/KG) (49365)	CIS- CHLOR- DANE, BIOTA, WH ORG WW, REC (UG/KG) (49380)	CIS- NONA- CHLOR, BIOTA, WH ORG WW, REC (UG/KG) (49359)	DCPA, BIOTA, WH ORG WW, REC (UG/KG) (49378)	DELTA- BHC, BIOTA, WH ORG WW, REC (UG/KG) (49364)	DIEL- DRIN, BIOTA, WH ORG WW, REC (UG/KG) (49371)	
AUG 30...	1600	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	6.20	
DATE	TIME	HEPTA- CHLOR ENDRIN, BIOTA, WH ORG WW, REC (UG/KG) (49370)	HEPTA- EPOXIDE CHLOR, BIOTA, WH ORG WW, REC (UG/KG) (49368)	LINDANE BIOTA, WH ORG WW, REC (UG/KG) (49363)	LIPIDS, BIOTA, WH ORG WW, REC (UG/KG) (49289)	METHOXY CHLOR, O, P'-, BIOTA, WH ORG WW, REC (UG/KG) (49362)	METHOXY CHLOR, P, P'-, BIOTA, WH ORG WW, REC (UG/KG) (49361)	MIREX, BIOTA, WH ORG WW, REC (UG/KG) (49360)	O, P'- DDD, BIOTA, WH ORG WW, REC (UG/KG) (49374)	O, P'- DDE, BIOTA, WH ORG WW, REC (UG/KG) (49373)	
AUG 30...	<5.00	<5.00	<5.00	<5.00	3.90	<5.00	<5.00	E4.20	29.0	E6.80	
DATE	TIME	O, P'- DDT, BIOTA, WH ORG WW, REC (UG/KG) (49377)	OXY- CHLOR DANE, BIOTA, WH ORG WW, REC (UG/KG) (49357)	P, P'- DDD, BIOTA, WH ORG WW, REC (UG/KG) (49375)	P, P'- DDE, BIOTA, WH ORG WW, REC (UG/KG) (49372)	P, P'- DDT, BIOTA, WH ORG WW, REC (UG/KG) (49376)	PCB, BIOTA, WH ORG WW, REC (UG/KG) (49354)	PENTA CHLORO ANISOLE BIOTA, WH ORG WW, REC (UG/KG) (49356)	TOXA- PHENE, BIOTA, WH ORG WW, REC (UG/KG) (49355)	TRANS- CHLOR- DANE, BIOTA, WH ORG WW, REC (UG/KG) (49379)	TRANS- NONA- CHLOR, BIOTA, WH ORG WW, REC (UG/KG) (49358)
AUG 30...	32.0	<5.00	560	2700	34.0	<50.0	<5.00	E980	<5.00	6.30	

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS
(National Water-Quality Assessment station)

LOCATION.--Lat 32°26'35", long 90°54'51", in SE1/4 SE1/4 sec.4, T.17 N., R.3 E., Washington Meridian, Warren County, Hydrologic Unit 08030208, on left bank at downstream abandoned Eagle Lake Ferries site, 1.5 mi downstream from Steele Bayou, 2.5 mi northwest of Long Lake, and at river mile 9.5 upstream of the confluence of the Yazoo River Diversion Canal with the Mississippi River.

DRAINAGE AREA.--13,355 mi², approximately, U.S. Army Corps of Engineers.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is sea level (U.S. Army Corps of Engineers benchmark).

REMARKS.--Estimated daily discharges: Oct. 9-15, Oct. 27 - Nov. 12, Dec. 13-18, Apr. 27-30, and May 1-7. Records good except estimated daily discharges, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7260	e8620	7890	26300	47700	46100	31200	e7800	15000	17700	9130	8010
2	7270	e9080	7300	25300	45100	40600	29800	e8500	16000	17000	8600	7510
3	7220	e9160	6430	36400	43000	40400	27500	e9100	13800	15500	8400	7710
4	7310	e9990	5480	43300	41900	41100	37400	e9900	12200	13500	8610	7950
5	7420	e8640	4780	42700	38800	37000	45800	e11000	11000	11300	8560	7710
6	7180	e8400	4550	40100	38000	32100	47000	e12000	9610	10000	8730	7660
7	6730	e8200	4880	37500	36500	27200	45000	e19000	7260	9980	8770	9220
8	5690	e8060	6100	35700	36000	24500	41500	24700	6420	9160	9390	9460
9	e4400	e7860	6800	38400	34000	29200	38300	22900	6550	7770	9090	7970
10	e3800	e7500	6290	44900	32300	29600	35100	20300	6430	7100	9330	8040
11	e3500	e6980	9300	46500	29500	24200	33300	19000	5560	8580	9870	8180
12	e2900	e7220	25900	45800	29200	21100	30800	19600	5990	11200	9670	8340
13	e2700	7990	e38000	42200	30000	23900	28600	20000	5820	12000	9590	8470
14	e2400	8780	e43000	37000	32700	32900	27400	17100	9000	14300	9330	8570
15	e2200	9920	e44000	32800	34900	36300	28300	12800	12300	16000	9370	8620
16	2130	12600	e42000	29200	38500	34400	34500	9180	12900	16600	9720	8650
17	3080	13300	e35000	25300	40900	29300	35200	8330	13600	15500	9250	8710
18	4270	11200	e29000	22700	43900	27300	32900	11600	12800	14800	8930	8860
19	4410	9800	24100	20700	46900	26300	27700	14700	12100	13500	8660	8800
20	4840	9770	21000	20800	48600	27600	22600	16900	11300	12300	8780	8880
21	5550	10700	18600	20100	50000	29000	18700	17200	10400	11400	8630	8910
22	5550	11600	16600	21400	53400	29900	15500	15900	8940	10500	8660	8700
23	5090	11700	21300	36600	55400	30300	11900	14500	7980	9910	9150	8510
24	4590	10300	27700	41800	57600	29700	9560	14000	7030	9100	8860	8310
25	4250	10800	32100	43600	58400	30700	7730	12700	7130	9090	8620	8040
26	3410	10200	33100	42800	57300	32500	7220	10900	8340	8630	8600	7800
27	e3200	8870	30400	39900	58800	31400	e6800	9610	12300	8910	9100	7670
28	e3000	8520	28300	36400	49400	31900	e6900	7810	12800	8430	9420	7450
29	e4420	8230	32000	36700	---	32800	e7000	7770	14400	8770	9460	7510
30	e5970	8100	31900	49200	---	31100	e7300	9340	17200	9550	9370	7240
31	e7650	---	29400	49300	---	30700	---	10400	---	10000	8840	---
TOTAL	149390	282090	673200	1111400	1208700	971100	778510	424540	312160	358080	280490	247460
MEAN	4819	9403	21720	35850	43170	31330	25950	13690	10410	11550	9048	8249
MAX	7650	13300	44000	49300	58800	46100	47000	24700	17200	17700	9870	9460
MIN	2130	6980	4550	20100	29200	21100	6800	7770	5560	7100	8400	7240
CFSM	.36	.70	1.63	2.68	3.23	2.35	1.94	1.03	.78	.86	.68	.62
IN.	.42	.79	1.88	3.10	3.37	2.70	2.17	1.18	.87	1.00	.78	.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

	1996	1997	1998	1999
MEAN	9839	11500	20020	32600
MAX	14700	14330	30020	38410
(WY)	1998	1997	1997	1998
MIN	4819	8488	10890	18190
(WY)	1999	1996	1996	1996

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1996 - 1999

	1998	1999	1996	1997	1998	1999
ANNUAL TOTAL	6336725	6797120				
ANNUAL MEAN	17360	18620				
HIGHEST ANNUAL MEAN			18540			
LOWEST ANNUAL MEAN			25400			1997
HIGHEST DAILY MEAN			11950			1996
LOWEST DAILY MEAN	62400	Jan 28	58800	Feb 27	64600	Apr 17 1997
LOWEST DAILY MEAN	920	Apr 24	2130	Oct 16	-3750	May 20 1996
ANNUAL SEVEN-DAY MINIMUM	2110	Jul 4	2700	Oct 11	-2160	May 17 1996
INSTANTANEOUS PEAK FLOW			72100	Feb 27	72100	Feb 27 1999
INSTANTANEOUS PEAK STAGE			90.04	Feb 14	98.31	Mar 25 1997
ANNUAL RUNOFF (CFSM)	1.30		1.39		1.39	
ANNUAL RUNOFF (INCHES)	17.65		18.93		18.86	
10 PERCENT EXCEEDS	39800		40700		39000	
50 PERCENT EXCEEDS	10500		11300		13700	
90 PERCENT EXCEEDS	3420		6660		7040	

e Estimated

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1996 to January 1998.

WATER TEMPERATURE: June 1996 to January 1998.

REMARKS.--Site affected by backwater from the Mississippi River. Little Sunflower River Drainage Structure WY99 closure dates: Oct. 1-Dec. 12, Jan. 17-27, 28-29, 30-Feb. 22, Mar. 1-Apr. 7, 12-16, 19-May 7, 13-June 28, Jul. 3-Sep. 30 (furnished by U.S. Army Corps of Engineers). Steele Bayou Drainage Structure WY99 closure dates: Apr. 23-May 6, May 16-17 (furnished by U.S. Army Corps of Engineers). Twice-daily measurements of specific conductance and water temperature collected by local observer from June 1996 to January 1998. In water years 1961-62 and 1972-93, data were collected 8.5 mi upstream (station 07288800).

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT									
21...	1045	5550	6.7	7.7	160	23.0	--	52	100
NOV									
24...	1030	9940	9.0	7.5	108	15.0	--	86	100
DEC									
10...	1000	5540	--	7.5	230	16.0	--	115	100
JAN									
21...	1000	21000	11.3	7.1	82	8.5	--	179	100
FEB									
18...	1100	44600	8.9	6.8	70	13.0	--	118	100
MAR									
26...	1045	32300	9.3	6.9	74	13.5	--	166	100
APR									
05...	1630	45400	6.9	6.8	105	19.0	--	468	99
MAY									
21...	0930	17700	4.2	7.1	105	25.0	--	219	99
JUN									
30...	1000	16800	4.2	7.3	221	29.0	--	147	98
JUL									
20...	1010	12300	5.6	7.5	220	30.5	--	121	99
AUG									
02...	1245	8870	--	--	--	33.5	--	132	99
31...	1200	8830	5.0	6.9	163	29.5	40	--	--
SEP									
07...	1030	7550	5.7	6.7	127	29.5	--	218	99

DATE	TIME	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT												
21...	1045	15	5.0	9.1	2.2	75	62	7.9	6.8	.11	5.3	103
NOV												
24...	1030	8.1	2.9	7.4	2.3	34	28	7.8	5.8	<.10	3.1	64
DEC												
10...	1000	21	6.9	13	3.5	89	73	14	9.2	<.10	7.4	135
JAN												
21...	1000	6.3	2.4	5.3	2.7	32	26	9.0	5.0	<.10	7.4	64
FEB												
18...	1100	5.8	2.0	3.6	2.8	20	16	5.5	3.4	<.10	6.3	53
MAR												
26...	1045	5.9	2.2	3.7	2.2	26	21	5.5	3.1	<.10	5.2	54
APR												
05...	1630	11	3.4	4.2	2.6	44	36	5.3	3.5	.17	5.6	75
MAY												
21...	0930	11	3.4	5.2	3.3	45	37	7.3	4.4	.12	6.5	75
JUN												
30...	1000	21	7.3	11	3.2	90	74	14	6.5	.14	9.0	137
JUL												
20...	1010	18	6.4	8.0	3.1	77	63	8.6	4.7	<.10	8.6	115
AUG												
02...	1245	17	5.7	8.6	2.8	77	63	7.8	6.4	.12	7.6	108
SEP												
07...	1030	11	3.7	6.3	2.0	50	41	7.4	4.8	<.10	5.4	74

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
OCT 21...	<.010	.111	.051	.49	.22	.114	E.043	.032	<10	E2.6	--	--
NOV 24...	<.010	.165	.059	.51	.20	.151	<.050	.027	17	E2.3	--	--
DEC 10...	.021	.564	.164	.71	.44	.192	E.039	.042	<10	20	--	--
JAN 21...	.025	.479	.188	1.1	.39	.321	.027	.032	49	7.3	--	--
FEB 18...	<.010	.208	.042	.79	.35	.247	.064	.050	130	11	--	--
MAR 26...	<.010	.497	.057	.97	.36	<.050	.036	.029	33	6.0	--	--
APR 05...	.018	.372	.045	2.1	.90	.622	.066	.053	42	7.0	--	--
MAY 21...	<.010	.790	.048	1.2	.39	.454	.093	.075	24	27	--	--
JUN 30...	.115	.953	.035	.83	.48	.250	.065	.054	<10	16	--	--
JUL 20...	.029	.898	.027	.72	.34	.218	.063	.061	<10	19	--	--
AUG 02...	.010	.357	<.020	.71	.17	.235	.213	.056	<10	88	.120	3.9
SEP 07...	.010	.120	.021	.49	.22	.217	.042	.024	17	16	--	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER DISS, REC (UG/L) (46342)	METO- LACHLOR WATER DISSOLV GF, REC (UG/L) (39415)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
OCT 21...	<.0020	<.002	.058	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	<.0040
NOV 24...	<.0020	<.002	.075	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	<.0040
DEC 10...	<.0020	<.002	.063	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0300	<.0040
JAN 21...	<.0020	<.002	.033	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	<.0040
FEB 18...	<.0020	<.002	.030	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	<.0040
MAR 26...	<.0020	<.002	.038	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	<.0040
APR 05...	.0644	<.002	.445	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	<.0040
MAY 21...	.0253	.010	3.47	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	E.0279	<.0020	.0250
JUN 30...	<.0020	<.002	.655	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	E.549	<.0020	4.51
JUL 20...	<.0020	E.002	.387	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	E.247	<.0020	3.18
AUG 02...	<.0100	<.002	.222	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	.434
SEP 07...	<.0020	<.002	.111	<.0030	<.0030	<.0070	<.0040	<.0020	<.0030	<.0030	<.0020	<.0040
DATE	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	BEN- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	LINDANE DIS- SOLVED (UG/L) (39341)
OCT 21...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
NOV 24...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
DEC 10...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	E.0023	<.001	<.004
JAN 21...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	E.0010	<.001	<.004
FEB 18...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
MAR 26...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	.0056	<.0020	<.0020	<.0060	<.001	<.004
APR 05...	<.0040	<.0020	<.0010	<.0020	<.0040	.0377	.0058	<.0020	<.0020	<.0060	<.001	<.004
MAY 21...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
JUN 30...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
JUL 20...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
AUG 02...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004
SEP 07...	<.0040	<.0020	<.0010	<.0020	<.0040	<.0040	<.0020	<.0020	<.0020	<.0060	<.001	<.004

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOPOS WATER DISS REC (UG/L) (04095)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
OCT 21...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	.014	<.0060	<.004	<.0020	<.0130	<.0050
NOV 24...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	E.004	<.0060	<.004	<.0020	<.0130	<.0050
DEC 10...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	.042	<.0060	<.004	<.0020	<.0130	<.0050
JAN 21...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	E.005	<.0060	<.004	<.0020	<.0130	<.0050
FEB 18...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	<.005	<.0060	<.004	<.0020	<.0130	<.0050
MAR 26...	<.0010	<.0040	E.001	<.0170	<.0030	<.0030	<.005	<.0060	<.004	<.0020	<.0130	<.0050
APR 05...	<.0010	<.0040	<.007	<.0170	<.0030	<.0030	.006	<.0060	<.004	<.0020	<.0130	<.0050
MAY 21...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	<.005	<.0060	<.004	<.0020	<.0130	<.0050
JUN 30...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	.087	<.0060	<.004	<.0020	<.0130	<.0050
JUL 20...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	.014	<.0060	<.004	<.0020	<.0130	<.0050
AUG 02...	<.0010	<.0040	<.010	<.0170	<.0030	<.0030	.164	<.0060	<.004	<.0020	<.0130	<.0050
SEP 07...	<.0010	<.0040	<.002	<.0170	<.0030	<.0030	.081	<.0060	<.004	<.0020	<.0130	<.0050

DATE	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)
OCT 21...	.281	E.0394	.0364	<.004	<.0180	.0213	<.0070	<.0020	<.0100	<.0030	<.0130
NOV 24...	.278	E.0193	.0740	<.004	<.0180	.0212	<.0070	<.0020	E.0071	<.0030	<.0130
DEC 10...	.171	E.0238	.0565	<.004	<.0180	.0285	<.0070	<.0020	<.0100	<.0030	<.0130
JAN 21...	.037	E.0049	.0137	<.004	<.0180	.0370	<.0070	<.0020	E.0040	<.0030	<.0130
FEB 18...	.023	<.0020	<.0040	<.004	<.0180	.0251	<.0070	<.0020	<.0100	<.0030	<.0130
MAR 26...	.080	E.0032	.0110	<.004	E.0052	.0654	<.0070	<.0020	<.0100	<.0030	<.0130
APR 05...	.609	E.0121	.171	.009	E.0092	.0839	<.0070	<.0020	<.0100	<.0030	<.0130
MAY 21...	1.28	E.0671	.136	.509	E.0164	.0255	<.0070	<.0020	<.0100	<.0030	<.0130
JUN 30...	.566	E.0435	.731	.108	<.0180	.0464	<.0070	.0196	<.0100	<.0030	<.0130
JUL 20...	.257	E.0190	1.62	.037	<.0180	.0240	<.0070	<.0020	<.0100	<.0030	<.0130
AUG 02...	.426	E.0264	.860	<.004	<.0180	.0154	<.0070	<.0020	<.0100	<.0030	<.0130
SEP 07...	.356	E.0267	.0450	<.004	<.0180	.0206	<.0070	<.0020	<.0100	<.0030	<.0130

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS

LOCATION.--Lat 32°18'45", long 90°54'25", in sec.32, T.16 N., R.3 E., Washington Meridian, Warren County, Hydrologic Unit 08060100, on left bank at downstream side of Interstate 20 bridge, and at mile 435.3.

DRAINAGE AREA.--1,140,500 mi², approximately. The 4,000 mi², approximately, in the Great Divide basin in Southern Wyoming is not included.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: January 1928 to current year. Prior to July 1931, monthly discharge only, published in WSP 1311.

Gage heights: April 1930 to current year in reports of Geological Survey. Since December 1871, referred to canal gages (above 30.0 ft or 9.14 m only, since December 1949), September 1934 to December 1964, referred to bridge gage, in reports of Mississippi River Commission. January 1937 to December 1967, referred to bridge gage, January 1968 to December 1976, referred to gage 1.1 mi upstream and January 1977 to September 1986 referred to gage at mile 435.3 (corrected), in reports of U. S. Army Corps of Engineers. Since May 1873, in reports of National Weather Service.

Extremes of stage, intermittently 1828 to 1871, and since 1871, extremes of discharge for various years 1858 to 1926 and since 1926, annual mean discharges since 1871, and records of daily discharge 1928 to 1964 are available in reports of Mississippi River Commission. Since January 1947 daily discharge in reports of U. S. Army Corps of Engineers. Prior to October 1968, published as Mississippi River near Vicksburg.

REVISED RECORDS.--WRD Miss. 1975: Drainage area.

GAGE.--Water-stage recorder operated by the U. S. Army Corps of Engineers. Datum of gage is 46.22 ft above sea level (U. S. Army Corps of Engineers bench mark) or 46.16 ft above mean gulf level. The U.S. Geological Survey operated a water-stage recorder over the cavity in the fourth pier from left bank at combined highway and railway bridge of Vicksburg Bridge Commission of Warren County, at southern city limits of Vicksburg, 1.5 mi downstream from Yazoo diversion canal, and at mile 435.7 (corrected), operated until January, 1977. Gages used by Mississippi River Commission: Dec. 10, 1871 to Sept. 30, 1929, nonrecording gage at mouth of Yazoo diversion canal, 1.5 mi upstream from bridge gage, since Sept. 30, 1929, nonrecording gage at mouth of Yazoo diversion canal, 1.5 mi upstream from bridge gage, since October 1929, nonrecording gage on Yazoo diversion canal, 1,600 ft upstream from mouth. Gages used by National Weather Service, May 18, 1873 to Oct. 29, 1919, nonrecording gage 0.5 mi upstream from bridge gage, Oct. 30, 1919 to Nov. 30, 1922, nonrecording gage at mouth of Yazoo Canal, Dec. 1, 1922 to Aug. 31, 1934, nonrecording gage on Yazoo diversion canal, Sept. 1, 1934 to Dec. 31, 1962, nonrecording gage at bridge, Jan. 1, 1963 to Dec. 31, 1967, water-stage recorder on left bank near downstream side of bridge, Jan. 1, 1968 to Dec. 31, 1976, on left bank at site 1.1 mi upstream, and since Jan. 1, 1977, on left bank at downstream side of Interstate 20 bridge. All gages at same datum, but readings differ due to slope of water surface between them.

REMARKS.--Natural flow of stream affected by many reservoirs and navigation dams. U. S. Army Corps of Engineers telemeter at station.

COOPERATION.--Records furnished by U. S. Army Corps of Engineers.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1871, 58.4 ft U. S. Army Corps of Engineers gage on Yazoo diversion canal, approximately 56.0 ft, May 4, 1927 (U. S. Geological Survey gage).

MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	266000	425000	393000	465000	1059000	839000	902000	938000	846000	653000	435000	274000
2	266000	392000	388000	450000	1107000	786000	853000	950000	846000	651000	425000	287000
3	266000	365000	383000	438000	1145000	741000	807000	973000	846000	648000	421000	296000
4	267000	353000	368000	440000	1178000	693000	772000	986000	846000	659000	419000	294000
5	271000	341000	366000	445000	1202000	648000	744000	999000	832000	689000	421000	294000
6	275000	339000	364000	450000	1225000	633000	723000	1018000	825000	715000	421000	288000
7	279000	348000	362000	453000	1245000	626000	708000	1040000	807000	730000	421000	280000
8	288000	352000	362000	445000	1255000	628000	704000	1054000	804000	741000	416000	276000
9	297000	363000	363000	448000	1275000	644000	700000	1068000	800000	748000	407000	271000
10	306000	390000	365000	450000	1285000	670000	704000	1078000	797000	758000	409000	266000
11	315000	440000	367000	455000	1300000	700000	711000	1088000	793000	762000	403000	255000
12	350000	473000	377000	460000	1310000	737000	711000	1092000	800000	762000	400000	250000
13	376000	512000	396000	460000	1315000	769000	711000	1102000	800000	751000	393000	243000
14	445000	525000	415000	455000	1310000	814000	700000	1102000	800000	737000	386000	236000
15	499000	539000	483000	460000	1305000	863000	693000	1107000	800000	723000	379000	233000
16	542000	554000	488000	493000	1295000	914000	678000	1111000	790000	696000	379000	228000
17	540000	561000	493000	543000	1280000	963000	678000	1111000	772000	666000	370000	229000
18	540000	565000	494000	574000	1265000	1008000	678000	1111000	744000	646000	357000	228000
19	539000	565000	494000	605000	1250000	1040000	685000	1102000	719000	635000	352000	224000
20	514000	552000	493000	619000	1225000	1059000	696000	1078000	693000	624000	348000	220000
21	477000	545000	492000	624000	1197000	1068000	711000	1040000	659000	610000	348000	219000
22	458000	532000	490000	624000	1159000	1073000	741000	1013000	642000	596000	341000	219000
23	458000	530000	489000	644000	1121000	1078000	765000	986000	635000	583000	331000	216000
24	458000	502000	485000	666000	1078000	1073000	790000	968000	626000	566000	319000	215000
25	458000	475000	479000	708000	1036000	1073000	814000	942000	617000	553000	317000	210000
26	463000	462000	472000	758000	991000	1068000	832000	906000	628000	545000	313000	210000
27	468000	422000	465000	804000	938000	1050000	856000	898000	628000	533000	308000	209000
28	465000	415000	459000	846000	890000	1031000	874000	882000	633000	521000	300000	205000
29	462000	408000	454000	886000	---	999000	894000	867000	642000	507000	290000	204000
30	442000	400000	449000	934000	---	968000	914000	860000	648000	475000	280000	206000
31	432000	---	446000	986000	---	934000	---	849000	---	450000	276000	---
TOTAL	12482000	13645000	13394000	18088000	33241000	27190000	22749000	31319000	22318000	19933000	11385000	7285000
MEAN	402600	454800	432100	583500	1187000	877100	758300	1010000	743900	643000	367300	242800
MAX	542000	565000	494000	986000	1320000	1080000	914000	1110000	846000	762000	435000	296000
MIN	266000	339000	362000	438000	890000	626000	678000	849000	617000	450000	276000	204000
MED	445000	451000	449000	493000	1220000	914000	717000	1020000	792000	651000	379000	231000
CFSM	.35	.40	.38	.51	1.04	.77	.66	.89	.65	.56	.32	.21
IN.	.41	.45	.44	.59	1.08	.89	.74	1.02	.73	.65	.37	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1999, BY WATER YEAR (WY)

	MEAN	315100	369100	523400	645300	761800	908500	985200	869600	684700	516400	367100	294900
MAX	900700	825000	1180000	1511000	1944000	1494000	1847000	1851000	1383000	1010000	1027000	708800	
(WY)	1987	1973	1986	1991	1937	1945	1945	1973	1943	1951	1993	1993	
MIN	110000	121800	129500	145800	204200	325300	408800	340700	211200	165600	125400	127200	
(WY)	1940	1940	1940	1940	1934	1941	1954	1934	1988	1988	1936	1936	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1932 - 1999

ANNUAL TOTAL	258150000	233029000	
ANNUAL MEAN	707300	638400	
HIGHEST ANNUAL MEAN			604200
LOWEST ANNUAL MEAN			995100
HIGHEST DAILY MEAN	1350000	May 7	1315000
LOWEST DAILY MEAN	217000	Sep 22	204000
ANNUAL SEVEN-DAY MINIMUM	233000	Sep 18	208000
INSTANTANEOUS PEAK FLOW			208000
INSTANTANEOUS PEAK STAGE			102000
INSTANTANEOUS LOW FLOW			53.20
ANNUAL RUNOFF (CFSM)	.62	.56	.53
ANNUAL RUNOFF (INCHES)	8.42	7.60	7.20
10 PERCENT EXCEEDS	1150000	1070000	1130000
50 PERCENT EXCEEDS	647000	610000	507000
90 PERCENT EXCEEDS	308000	288000	222000

MISSISSIPPI RIVER MAIN STEM

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07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	17.7	15.4	17.6	36.4	31.1	32.8	33.7	31.3	25.9	16.4	7.1
2	8.6	16.6	15.0	17.0	37.4	29.6	31.5	34.0	31.3	25.8	16.0	7.8
3	8.4	15.5	14.8	16.5	38.2	28.3	30.2	34.5	31.3	25.7	15.7	8.5
4	7.9	14.7	14.5	16.6	38.9	27.0	29.2	34.8	31.3	26.1	15.6	8.3
5	7.6	14.0	14.4	16.8	39.4	25.7	28.4	35.1	30.9	26.9	15.7	8.3
6	7.8	13.9	14.1	17.0	39.9	25.0	27.8	35.5	30.7	27.6	15.7	7.9
7	8.4	13.9	13.7	17.1	40.3	24.7	27.4	36.0	30.2	28.0	15.7	7.4
8	9.2	14.3	13.5	16.8	40.5	24.8	27.3	36.3	30.1	28.3	15.4	7.2
9	10.4	15.3	13.5	16.9	40.9	25.5	27.2	36.6	30.0	28.5	14.8	6.9
10	12.3	16.6	13.4	17.0	41.1	26.4	27.3	36.8	29.9	28.8	14.9	6.6
11	13.9	18.3	13.3	17.2	41.4	27.2	27.5	37.0	29.8	28.9	14.5	6.0
12	14.9	20.1	14.1	17.4	41.6	28.2	27.5	37.1	30.0	28.9	14.3	5.6
13	16.2	21.4	16.0	17.4	41.7	29.1	27.5	37.3	30.0	28.6	13.9	5.0
14	18.5	22.1	16.6	17.2	41.6	30.4	27.2	37.3	30.0	28.2	13.6	4.5
15	21.0	22.3	17.1	17.4	41.5	31.8	27.0	37.4	30.0	27.8	13.3	4.2
16	22.5	22.3	18.4	18.9	41.3	33.1	26.6	37.5	29.7	27.1	13.3	3.8
17	23.1	22.4	19.8	21.4	41.0	34.3	26.6	37.5	29.2	26.3	12.9	3.9
18	23.0	22.5	20.6	22.7	40.7	35.3	26.6	37.5	28.4	25.6	12.3	3.8
19	22.4	22.7	20.8	23.8	40.4	36.0	26.8	37.3	27.7	25.1	12.1	3.5
20	21.5	22.9	20.5	24.4	39.9	36.4	27.1	36.8	27.0	24.6	11.9	3.2
21	20.1	22.9	20.0	24.6	39.3	36.6	27.5	36.0	26.1	24.0	11.9	3.1
22	18.5	22.6	19.8	24.6	38.5	36.7	28.3	35.4	25.4	23.5	11.5	3.1
23	17.2	21.9	19.6	25.5	37.7	36.8	29.0	34.8	25.1	23.0	10.9	2.9
24	16.0	21.1	19.3	26.3	36.8	36.7	29.7	34.4	24.7	22.4	10.2	2.8
25	15.4	20.2	19.0	27.4	35.9	36.7	30.4	33.8	24.3	21.9	10.1	2.4
26	15.6	19.1	18.1	28.8	34.9	36.6	30.9	32.9	24.8	21.5	9.8	2.4
27	16.8	18.2	17.7	30.1	33.7	36.2	31.6	32.7	24.8	20.9	9.4	2.3
28	18.3	17.5	17.8	31.3	32.5	35.8	32.1	32.3	25.0	20.3	8.8	2.0
29	19.0	16.9	18.0	32.4	---	35.1	32.6	31.9	25.4	19.6	8.0	1.9
30	19.0	16.0	18.2	33.6	---	34.4	33.1	31.7	25.7	18.0	7.4	2.1
31	18.6	---	18.0	34.8	---	33.6	---	31.4	---	17.0	7.2	---
TOTAL	481.2	565.9	525.0	686.5	1093.4	985.1	864.7	1093.3	850.1	774.8	393.2	144.5
MEAN	15.52	18.86	16.94	22.15	39.05	31.78	28.82	35.27	28.34	24.99	12.68	4.82
MAX	23.10	22.90	20.80	34.80	41.70	36.80	33.10	37.50	31.30	28.90	16.40	8.50
MIN	7.60	13.90	13.30	16.50	32.50	24.70	26.60	31.40	24.30	17.00	7.20	1.90

MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995, 1972-94, 1997, 1999.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to September 1993.

WATER TEMPERATURE: October 1973 to September 1993.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	
AUG 02...	0945	410000	480	7.6	32.5	32.0	5.9	48	15	21	
DATE		POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
AUG 02...	3.9	148	121	54	19	.22	7.8	279	<.010	2.06	
DATE		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	UV ABSORB- ANCE 254 NM, WTR,FLT (UNITS /CM) (50624)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
AUG 02...	<.020	1.0	.55	.224	.060	.102	<10	<3.0	.101	5.2	

07289350 BIG BLACK RIVER AT WEST, MS

LOCATION.--Lat 33°11'39", long 89°46'15", in NE1/4 NW1/4 sec.3, T.15 N., R.5 E., Choctaw Meridian, Attala County, Hydrologic Unit 08060201, near right bank on downstream side of bridge on State Highway 19, 0.2 mi east of West, 5.2 mi upstream from Jordan Creek, and 7.1 mi downstream from Zilpha Creek.

DRAINAGE AREA.--1,027 mi².

PERIOD OF RECORD.--September 1971 to current year. July 1936 to December 1946 and January 1947 to 1971 (gage heights and occasional discharge measurements) in reports of U. S. Army Corps of Engineers, Vicksburg district.

REVISED RECORDS.--WDR MS-89-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 249.74 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to June 10, 1948, nonrecording gage, and June 10, 1948, to Nov. 2, 1967, recorder at site about 2,000 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Aug. 16-23. Records good except for estimated daily discharges, which are poor. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 30, 1951, reached a stage of 24.09 ft, discharge, 47,000 ft³/s, at site about 2,000 ft downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec. 13	1500	12,000	19.66	Jan. 30	2300	18,900	20.91
Dec. 29	0400	13,300	19.92	May 6	2400	19,000	20.92
Jan. 23	1830	*20,500	*21.16				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	50	94	8880	18300	1240	708	578	223	1410	116	54
2	62	50	93	6370	14700	1410	667	474	206	1680	98	50
3	62	51	91	7010	10100	2570	625	386	179	1260	87	48
4	62	54	91	5520	6100	3740	1760	341	154	468	79	46
5	80	58	91	3980	3770	4010	2830	361	137	257	75	46
6	129	58	92	4520	2460	6410	2940	8230	124	191	71	61
7	140	57	103	4110	1130	5650	2710	15900	115	159	68	60
8	162	58	291	3170	665	3770	2740	14000	107	179	66	58
9	130	67	506	3520	573	3000	2350	13100	103	422	68	149
10	99	102	480	7450	527	2710	1450	10000	100	419	66	131
11	79	162	764	6300	492	2190	769	6330	98	458	71	185
12	65	156	2270	8110	485	2130	563	3900	99	354	93	144
13	59	151	9070	6770	514	2590	454	2150	165	234	90	98
14	59	206	9650	4360	489	4720	392	953	202	215	77	74
15	58	749	9920	2920	465	5720	1810	637	574	189	68	62
16	57	637	8600	1550	410	5280	2740	440	628	155	e62	55
17	56	519	5650	708	378	5620	2590	331	439	170	e56	52
18	55	304	3520	566	398	4180	2910	270	271	160	e54	50
19	54	190	1720	553	471	2910	3300	232	182	161	e52	49
20	56	152	578	563	550	1500	2570	207	143	129	e51	48
21	56	213	436	539	508	857	1130	190	123	129	e50	47
22	54	183	1110	1350	449	717	647	180	110	127	e50	46
23	53	166	1980	13300	382	675	516	170	102	108	e49	46
24	52	147	2890	16300	347	613	442	171	100	99	87	45
25	52	129	5300	15500	323	819	397	176	105	93	222	45
26	51	117	6000	13500	309	1180	595	166	171	90	130	45
27	51	107	7170	9370	341	1040	1010	155	273	105	102	46
28	51	102	9720	5650	967	952	998	149	438	459	89	46
29	50	100	12100	4340	---	740	875	146	747	348	75	164
30	50	98	9260	13200	---	611	701	291	1080	217	64	212
31	50	---	10100	17300	---	648	---	247	---	148	58	---
TOTAL	2157	5193	119740	197279	66603	80202	44189	80861	7498	10593	2444	2262
MEAN	69.6	173	3863	6364	2379	2587	1473	2608	250	342	78.8	75.4
MAX	162	749	12100	17300	18300	6410	3300	15900	1080	1680	222	212
MIN	50	50	91	539	309	611	392	146	98	90	49	45
CFSM	.07	.17	3.76	6.20	2.32	2.52	1.43	2.54	.24	.33	.08	.07
IN.	.08	.19	4.34	7.15	2.41	2.91	1.60	2.93	.27	.38	.09	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1999, BY WATER YEAR (WY)

	MEAN	347	835	2250	3260	2807	3322	2804	1858	886	435	224	236
MAX	2890	5739	11820	7339	6199	8406	8664	9714	5186	3284	1005	2054	
(WY)	1985	1980	1983	1974	1983	1980	1991	1983	1989	1989	1975	1979	
MIN	16.3	61.3	234	185	410	1049	190	89.9	33.6	60.9	46.6	31.1	
(WY)	1988	1982	1982	1986	1986	1985	1986	1988	1988	1988	1987	1987	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1971 - 1999

ANNUAL TOTAL	472324	619021	1601
ANNUAL MEAN	1294	1696	3821
HIGHEST ANNUAL MEAN			423
LOWEST ANNUAL MEAN			62400
HIGHEST DAILY MEAN	12100	Dec 29	18300
LOWEST DAILY MEAN	50	Oct 29	45
ANNUAL SEVEN-DAY MINIMUM	50	Oct 27	46
INSTANTANEOUS PEAK FLOW			20500
INSTANTANEOUS PEAK STAGE			21.16
INSTANTANEOUS LOW FLOW			45
ANNUAL RUNOFF (CFSM)	1.26	1.65	1.56
ANNUAL RUNOFF (INCHES)	17.11	22.42	21.18
10 PERCENT EXCEEDS	3830	5680	4040
50 PERCENT EXCEEDS	304	273	401
90 PERCENT EXCEEDS	64	54	68

e Estimated

a Also occurred on Sept. 22,24,25,26 and 28

BIG BLACK RIVER BASIN

07289730 BIG BLACK RIVER NR BENTONIA, MS

LOCATION.--Lat 32°36'10", long 90°21'49", NW1/4 NW1/4 NW1/4 sec. 25, T.9 N., R.2 W., Choctaw Meridian, Madison County, Hydrologic Unit 08060202, on downstream side of U.S. Highway 49 bridge, 2.5 mi south of Benton, and at mile 106.

DRAINAGE AREA.--2,340 mi².

PERIOD OF RECORD.--October 1995 to current year. Stage, 1947 to date in reports of U.S. Army Corps of Engineers. Measured discharge, June 1946 to date.

GAGE.--Water-stage recorder. Datum of gage is 130.18 ft above sea level.

REMARKS.--Estimated daily discharge: Oct. 6-8, Jan. 2-3, and Jun. 8-28. Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1983 reached a stage of 32.48 ft, discharge 86,000 ft³/s. Peak stage of 34.70 ft on May 23, 1930, 3.1 mi upstream at Ragan Station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	131	238	8570	35800	3820	4100	1260	525	914	538	237
2	146	141	226	e9600	32500	4200	3670	1100	531	1290	447	221
3	145	140	218	e11200	25900	7780	2700	922	566	1570	373	203
4	154	139	212	11400	21700	9000	5400	797	521	1850	322	193
5	154	138	208	11800	18700	9070	7430	725	488	1870	282	197
6	e148	141	204	12300	17400	9610	7400	879	453	1360	255	210
7	e143	144	236	12700	15800	10500	7250	1270	416	862	244	192
8	e153	156	489	12600	13800	10100	6980	3060	e387	747	246	207
9	162	308	667	12500	12100	10400	5700	4240	e371	717	247	218
10	184	402	694	12100	10600	9920	4270	4840	e362	530	408	223
11	208	418	3620	11300	6080	9540	3690	5330	e533	868	266	228
12	218	405	9570	10800	2750	9350	2950	6350	e441	2010	271	208
13	207	334	9710	10600	2160	10200	2060	6430	e614	1590	285	229
14	191	387	9070	10100	1950	11100	1560	6820	e504	1150	228	254
15	178	379	8330	9250	1840	10900	1300	7390	e796	790	203	274
16	168	353	7920	8160	1700	10100	1410	8000	e746	601	202	259
17	159	552	7610	7350	1580	9600	2790	7380	e671	496	200	230
18	152	822	7040	6780	1490	9420	3250	3180	e736	465	192	209
19	148	797	6530	4670	1470	8700	3310	1510	e818	467	183	196
20	144	736	6290	2690	1580	7530	3290	1070	e746	451	176	185
21	141	635	6100	2110	1620	6630	3460	839	e554	418	171	178
22	138	520	4220	3970	1600	5350	3360	718	e441	439	167	171
23	137	427	2350	9900	1530	3010	2380	650	e533	394	162	167
24	139	405	6090	10100	1400	2080	1560	745	e837	363	160	164
25	139	384	7480	9840	1260	2900	1160	817	e715	401	167	161
26	136	345	7330	9900	1140	4040	925	724	e614	354	407	163
27	134	316	7260	10500	1200	4610	910	634	e513	393	528	162
28	134	291	8440	10600	2450	3890	872	736	e594	1220	441	163
29	133	270	9030	11100	---	2750	1110	646	783	626	363	240
30	131	253	8850	21800	---	2250	1350	646	791	508	294	199
31	131	---	8550	31000	---	3260	---	545	---	502	257	---
TOTAL	4801	10869	154782	327290	239100	221610	97597	80253	17600	26216	8685	6141
MEAN	155	362	4993	10560	8539	7149	3253	2589	587	846	280	205
MAX	218	822	9710	31000	35800	11100	7430	8000	837	2010	538	274
MIN	131	131	204	2110	1140	2080	872	545	362	354	160	161
CFSM	.07	.15	2.13	4.51	3.65	3.06	1.39	1.11	.25	.36	.12	.09
IN.	.08	.17	2.46	5.20	3.80	3.52	1.55	1.28	.28	.42	.14	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

	1996	1997	1998	1999	1996	1997	1998	1999
MEAN	386	661	3755	7585	7691	6910	3203	2876
MAX	661	1013	4993	10560	10210	9501	5298	5577
(WY)	1998	1998	1999	1999	1997	1997	1997	1997
MIN	155	362	1910	5433	4551	2458	1224	1059
(WY)	1999	1999	1997	1996	1996	1998	1998	1998

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1996 - 1999

ANNUAL TOTAL	1080596	1194944	3146
ANNUAL MEAN	2961	3274	3963
HIGHEST ANNUAL MEAN			2350
LOWEST ANNUAL MEAN			1997
HIGHEST DAILY MEAN	17400	Mar 11	35800
LOWEST DAILY MEAN	131	Oct 30	131
ANNUAL SEVEN-DAY MINIMUM	133	Oct 26	133
INSTANTANEOUS PEAK FLOW			36900
INSTANTANEOUS PEAK STAGE			28.53
INSTANTANEOUS LOW FLOW			131
ANNUAL RUNOFF (CFSM)	1.27	1.40	1.34
ANNUAL RUNOFF (INCHES)	17.18	19.00	18.27
10 PERCENT EXCEEDS	9790	9910	9900
50 PERCENT EXCEEDS	779	747	1070
90 PERCENT EXCEEDS	158	163	257

e Estimated

LOCATION.--Lat 32°20'51", long 90°41'48", in SW1/4 NW1/4 SE1/4 sec.22, T.16 N., R.5 E., Washington Meridian, Hinds County, Hydrologic Unit 08060202, on left bank at downstream side of bridge on U.S. Highway 80 (old), 300 ft upstream from Clear Creek, 0.4 mi upstream from Illinois Central and Gulf Railroad bridge, 2.3 mi east of Bovina, 10.8 mi upstream from Fourteenmile Creek, and at mile 61.7. Records include flow of Clear Creek.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec. 12	1700	12,200	28.36	Feb. 3	1300	45,300	38.40
Jan. 11	0400	12,800	29.28	Mar. 14	0800	14,800	29.44
Jan. 24	0100	12,200	28.48				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	176	306	9270	e31400	3500	4220	1370	795	1310	582	350
2	202	e180	289	10600	37900	4680	4720	1310	750	1220	622	298
3	201	189	275	11800	44600	6930	4050	1150	730	1460	552	262
4	202	186	265	11500	41600	8640	6020	991	783	1670	467	244
5	195	178	259	11400	36800	9280	8840	921	741	1890	402	245
6	227	173	254	11400	32100	9480	9250	915	699	1890	348	221
7	400	172	368	11500	27500	9580	8970	975	659	1530	311	229
8	325	197	853	12000	23200	9950	8250	1390	623	1410	285	230
9	256	322	1010	12500	19200	11900	7570	3030	588	1270	282	242
10	229	620	840	12700	16300	12100	6220	4170	555	1030	353	265
11	217	800	3080	12700	14600	11800	4700	4820	551	895	436	241
12	227	644	11400	12600	12700	11500	3870	5510	804	1170	404	238
13	254	529	11900	12300	7000	12300	3050	6300	638	1990	299	236
14	259	524	11400	12000	3130	14600	2250	6530	1010	1890	328	221
15	255	616	11000	11500	2360	14300	1780	6870	748	1510	298	244
16	246	529	10200	11000	2160	13900	1470	7360	993	1110	257	265
17	238	453	9040	9890	2020	13600	1610	7860	1250	816	251	269
18	231	566	8150	8260	1910	12900	2820	7400	1070	687	248	246
19	221	912	7450	6880	1830	11900	3290	3820	1100	622	245	222
20	207	943	6880	4560	1820	11000	3370	1780	1180	657	243	207
21	203	925	6510	2690	1850	9550	3390	1390	1020	760	241	197
22	199	790	6110	4160	1850	7900	3530	e1190	844	688	239	186
23	195	637	4290	11600	1830	5840	3340	e1010	709	581	238	177
24	193	527	4790	12100	1770	3420	2440	e1140	614	542	424	170
25	e189	479	7570	11900	1670	3960	1910	e1050	1150	488	e340	166
26	e185	458	8190	11900	1550	5210	1380	e1000	1280	608	e216	162
27	182	417	7970	11800	1570	5350	1210	e860	767	573	307	155
28	180	382	8980	11700	2850	5310	1080	e900	734	762	597	161
29	177	354	9930	12000	---	4230	1010	1020	757	1260	537	807
30	175	328	9820	14500	---	3090	1180	945	1510	844	453	418
31	177	---	9630	e22800	---	3050	---	927	---	673	373	---
TOTAL	6849	14206	179009	343510	375070	270750	116790	85904	25652	33806	11178	7574
MEAN	221	474	5774	11080	13400	8734	3893	2771	855	1091	361	252
MAX	400	943	11900	22800	44600	14600	9250	7860	1510	1990	622	807
MIN	175	172	254	2690	1550	3050	1010	860	551	488	216	155
CFSM	.08	.17	2.05	3.94	4.77	3.11	1.39	.99	.30	.39	.13	.09
IN.	.09	.19	2.37	4.55	4.97	3.58	1.55	1.14	.34	.45	.15	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1999, BY WATER YEAR (WY)

MEAN	714	1506	4167	6814	7778	8038	7206	4780	1816	1413	865	543
MAX	6547	11050	27400	24360	20700	19780	25100	23860	9311	13730	4059	3800
(WY)	1976	1958	1983	1974	1983	1973	1983	1983	1997	1940	1975	1979
MIN	78.8	103	213	216	1156	1040	559	398	210	172	121	106
(WY)	1955	1940	1955	1956	1986	1936	1963	1963	1988	1952	1943	1952

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1936 - 1999
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ANNUAL TOTAL	1412438		1470298				
ANNUAL MEAN	3870		4028			3808	
HIGHEST ANNUAL MEAN						10950	1983
LOWEST ANNUAL MEAN						792	1963
HIGHEST DAILY MEAN	18500	Mar 13	44600	Feb 3		90600	May 24 1983
LOWEST DAILY MEAN	172	Nov 7	155	Sep 27		67	Oct 1 1954
ANNUAL SEVEN-DAY MINIMUM	178	Oct 27	168	Sep 22		67	Sep 30 1954
INSTANTANEOUS PEAK FLOW			45300	Feb 3		92300	May 24 1983
INSTANTANEOUS PEAK STAGE			38.40	Feb 3		40.77	May 21 1983
INSTANTANEOUS LOW FLOW			153	Sep 27,28		65	Oct 2 1954
ANNUAL RUNOFF (CFSM)	1.38		1.43			1.36	
ANNUAL RUNOFF (INCHES)	18.70		19.46			18.41	
10 PERCENT EXCEEDS	12300		11800			10700	
50 PERCENT EXCEEDS	915		1030			1130	
90 PERCENT EXCEEDS	227		219			198	

e Estimated

LOCATION.--Lat 31°30'11", long 90°46'39", in SE1/4 NE1/4 sec.11, T.6 N., R.4 E., Washington Meridian, Franklin County, Hydrologic Unit 08060205, on left bank at upstream side of Illinois Central and Gulf Railroad bridge, 900 ft downstream from bridge on U.S. Highway 84, 0.6 mi upstream from McCall Creek, and 0.8 mi east of Eddiceton.

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1281: 1939-40, 1942-44, 1949-50. WDR MS-89-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 212.22 ft above sea level. Prior to May 18, 1984, at datum 5.0 ft higher. Prior to May 26, 1942, nonrecording gage at site 900 ft upstream.

REMARKS.--Estimated daily discharges: Feb. 27 - Mar. 2. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 30	1430	*16,400	*16.10	Mar. 13	1715	10,300	13.40

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	51	58	85	816	e663	320	72	71	68	43	48
2	46	63	57	967	570	e232	224	70	57	62	41	45
3	48	62	56	629	441	254	189	69	52	65	40	43
4	50	55	56	213	498	192	435	69	50	60	39	42
5	49	55	57	131	376	159	425	69	49	54	39	42
6	65	54	56	108	309	192	317	66	48	53	39	41
7	192	54	57	104	273	154	282	61	46	62	38	40
8	84	58	73	222	244	134	196	60	46	131	37	67
9	64	75	68	192	228	2060	161	59	49	145	45	77
10	60	122	63	135	239	510	139	61	58	220	126	47
11	57	140	101	108	218	545	125	73	77	149	69	43
12	56	74	207	97	194	1230	115	72	63	670	47	42
13	55	79	205	91	180	5080	114	63	50	137	41	41
14	54	734	101	88	168	2270	117	59	51	81	39	41
15	54	329	76	84	163	920	377	56	67	67	38	40
16	53	116	68	80	156	718	187	55	124	62	37	40
17	52	81	65	78	310	621	126	54	50	67	37	39
18	52	70	62	76	552	545	110	58	44	72	40	39
19	51	64	81	73	262	487	103	55	42	53	42	39
20	52	62	79	71	186	431	100	53	40	56	42	39
21	51	60	67	70	160	384	96	53	39	49	41	39
22	51	60	65	464	142	318	90	53	41	46	41	40
23	51	60	69	1300	136	286	86	54	51	44	41	39
24	51	59	179	269	129	261	84	75	46	44	43	39
25	52	58	140	166	123	429	81	59	43	55	41	39
26	52	57	94	129	120	413	81	55	1280	61	40	39
27	52	57	80	112	e363	264	117	56	270	79	41	39
28	52	57	344	103	e2530	198	89	56	116	49	42	41
29	52	58	235	1290	---	178	78	84	88	46	41	102
30	51	58	125	8060	---	195	74	120	78	43	41	63
31	51	---	94	1710	---	530	---	136	---	45	41	---
TOTAL	1806	2982	3138	17305	10086	20853	5038	2055	3186	2895	1372	1375
MEAN	58.3	99.4	101	558	360	673	168	66.3	106	93.4	44.3	45.8
MAX	192	734	344	8060	2530	5080	435	136	1280	670	126	102
MIN	46	51	56	70	120	134	74	53	39	43	37	39
CFSM	.32	.55	.56	3.08	1.99	3.72	.93	.37	.59	.52	.24	.25
IN.	.37	.61	.64	3.56	2.07	4.29	1.04	.42	.65	.59	.28	.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1999, BY WATER YEAR (WY)

MEAN	93.8	151	320	439	502	529	476	283	138	138	97.8	75.0
MAX	765	742	1428	1398	1169	1400	1981	1818	534	1036	557	302
(WY)	1965	1958	1983	1990	1979	1961	1974	1953	1975	1989	1992	1965
MIN	31.4	37.5	62.6	54.2	70.8	100	64.4	49.9	42.3	37.5	35.3	33.3
(WY)	1953	1939	1944	1957	1954	1955	1963	1963	1972	1944	1954	1956

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1939 - 1999
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ANNUAL TOTAL	111598			72091			
ANNUAL MEAN	306			198		269	
HIGHEST ANNUAL MEAN						587	1983
LOWEST ANNUAL MEAN						92.8	1954
HIGHEST DAILY MEAN	11700	Jan 7		8060	Jan 30	34600	Apr 13 1974
LOWEST DAILY MEAN	41	Jan 3		37	Aug 8	11	Jun 1 1989
ANNUAL SEVEN-DAY MINIMUM	47	Sep 4		39	Aug 2	13	May 29 1989
INSTANTANEOUS PEAK FLOW				16400	Jan 30	55400	Apr 13 1974
INSTANTANEOUS PEAK STAGE				16.10	Jan 30	24.53	Apr 13 1974
ANNUAL RUNOFF (CFSM)	1.69			1.09		1.49	
ANNUAL RUNOFF (INCHES)	22.94			14.82		20.20	
10 PERCENT EXCEEDS	567			376		442	
50 PERCENT EXCEEDS	76			68		84	
90 PERCENT EXCEEDS	51			41		44	

e Estimated

07292500 HOMOCHITTO RIVER AT ROSETTA, MS

LOCATION.--Lat 31°19'29", long 91°06'34", in NW1/4 sec. 13, T.4 N., R.1 E., Washington Meridian, Franklin County, Hydrologic Unit 08060205, near right bank, near downstream side of pier cap, under bridge, on State Highway 33 at Rosetta, 0.8 mi downstream from Foster Creek, and 4.0 mi upstream from Dry Creek.

DRAINAGE AREA.--787 mi².

PERIOD OF RECORD.--October 1951 to current year, June to November 1906 (gage heights and discharge measurements only), February 1949 to September 1951 (gage heights and discharge measurements only) in reports of U. S. Army Corps of Engineers, Vicksburg district.

REVISED RECORDS.--WSP 1731: 1955(M), WSP 1920: 1955, WDR MS-86-1: 1985 (P), WDR MS-89-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 94.39 ft above sea level. June 16 to Nov. 12, 1906, nonrecording gage at present site, at different datum, December 1976 to April 1978, near right bank on downstream side of Illinois Central and Gulf Railroad bridge, 800 ft upstream and nonrecording gage read twice daily at present site, all at same datum.

REMARKS.--Estimated daily discharges: Apr. 2-5 and Aug. 26. Records good except for estimated discharges, which are poor. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since February 1949, 37.80 ft, Mar. 31, 1949, from reports of U. S. Army Corps of Engineers, Vicksburg district.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 16,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 30	0215	*44,400	*17.82	Mar. 13	2015	41,800	17.49

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	243	237	253	500	3530	2600	1940	314	528	354	197	207
2	237	259	260	3530	2940	1380	e1060	310	346	296	192	238
3	256	324	252	3300	2270	1260	e942	319	286	253	182	232
4	251	287	255	1310	2830	1060	e1580	320	265	244	174	225
5	257	266	255	878	1990	742	e2740	335	257	232	168	210
6	332	255	250	760	1460	818	1380	325	250	192	171	274
7	2950	256	257	896	1270	848	1330	294	279	170	172	693
8	814	272	307	1630	1140	497	1010	280	329	239	171	303
9	391	316	357	1230	1030	4510	824	265	272	338	174	711
10	308	461	301	843	969	2520	715	305	299	947	890	393
11	285	904	450	678	907	1130	645	494	442	968	827	262
12	275	499	933	621	798	7730	557	552	425	1060	359	228
13	271	401	1540	608	687	22500	488	367	350	862	260	218
14	273	3240	723	549	621	12600	461	290	338	284	233	249
15	278	3270	455	505	602	3880	884	286	425	208	220	220
16	281	960	388	483	617	3410	1020	277	386	237	218	199
17	270	534	367	474	1750	2580	517	284	418	419	218	195
18	269	401	353	464	3300	2030	378	306	307	707	219	194
19	277	342	512	422	1800	1690	334	332	267	296	216	196
20	286	322	665	410	1170	1440	322	273	250	243	216	201
21	282	299	492	418	968	1280	328	252	233	225	213	207
22	269	273	418	807	848	1120	325	244	291	194	213	209
23	257	264	415	5760	775	1010	320	239	347	178	211	207
24	264	256	683	1840	699	928	331	310	306	184	212	200
25	268	245	1010	971	618	1030	320	368	277	241	214	200
26	263	238	643	782	564	1660	325	279	1610	229	e210	201
27	258	238	516	680	838	1050	442	309	4070	483	230	196
28	251	237	1890	618	6050	841	478	313	1090	508	266	207
29	246	235	2160	3370	---	794	342	296	601	346	234	451
30	242	236	847	31800	---	838	310	394	443	249	214	853
31	240	---	584	9030	---	1870	---	798	---	205	208	---
TOTAL	11644	16327	18791	76167	43041	87646	22648	10330	15987	11591	7902	8576
MEAN	376	544	606	2457	1537	2827	755	333	533	374	255	286
MAX	2950	3270	2160	31800	6050	22500	2740	798	4070	1060	890	853
MIN	237	235	250	410	564	497	310	239	233	170	168	194
CFSM	.48	.69	.77	3.12	1.95	3.59	.96	.42	.68	.48	.32	.36
IN.	.55	.77	.89	3.60	2.03	4.14	1.07	.49	.76	.55	.37	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1999, BY WATER YEAR (WY)

	MEAN	565	714	1364	1845	2037	1981	1984	1275	731	624	484	453
MAX	3855	3010	5344	6205	5210	6206	8806	7650	3184	3753	1716	1273	
(WY)	1965	1958	1962	1990	1979	1961	1974	1953	1975	1989	1992	1957	
MIN	141	202	335	255	363	491	313	247	232	223	166	158	
(WY)	1953	1964	1954	1957	1954	1954	1963	1963	1988	1954	1954	1956	

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1952 - 1999

	ANNUAL TOTAL	456999	330650	
ANNUAL MEAN	1252	906		
HIGHEST ANNUAL MEAN			1167	
LOWEST ANNUAL MEAN			2342	1983
HIGHEST DAILY MEAN	44000	Jan 7	31800	Jan 30
LOWEST DAILY MEAN	220	Sep 10	168	Aug 5
ANNUAL SEVEN-DAY MINIMUM	240	Nov 25	173	Aug 3
INSTANTANEOUS PEAK FLOW			44400	Jan 30
INSTANTANEOUS PEAK STAGE			17.82	Jan 30
ANNUAL RUNOFF (CFSM)	1.59		1.15	
ANNUAL RUNOFF (INCHES)	21.60		15.63	
10 PERCENT EXCEEDS	2340		1670	2100
50 PERCENT EXCEEDS	451		342	480
90 PERCENT EXCEEDS	257		213	230

e Estimated

185

LOCATION.--Lat 31°13'37", long 91°17'44", in SW1/4 sec.21, T.3 N., R.2 W., Washington Meridian, Wilkinson County, Hydrologic Unit 08060206, near center of span on downstream side of bridge on U.S. Highway 61, 1.5 mi downstream from Fords Creek, 2.8 mi west of Wilkinson, and 8.5 mi north of Woodville, 31 mi upstream from mouth.

PERIOD OF RECORD.--March 1942 to current year. Prior to October 1950, published as Buffalo Bayou near Woodville.

GAGE.--Water-stage recorder. Datum of gage is 94.52 ft above sea level. Prior to June 1, 1942, nonrecording gage at same site. Prior to Oct. 1, 1964, at datum 3.00 ft higher.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 30	0130	*37,600	*19.67	No other peak greater than base discharge.			

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	44	59	89	645	461	285	53	85	130	72	67
2	51	51	56	1880	441	319	220	53	64	119	67	137
3	51	51	55	467	809	572	188	53	58	124	65	55
4	55	46	55	201	1380	286	494	57	57	242	66	45
5	52	45	54	152	e424	243	340	57	56	138	61	40
6	435	44	52	140	e249	367	202	51	57	110	56	160
7	624	44	54	554	e229	256	157	48	93	114	54	406
8	99	44	79	807	e203	218	135	50	223	359	51	73
9	76	44	87	215	e191	1380	121	47	333	738	49	61
10	69	101	70	147	e179	330	112	65	116	680	51	48
11	64	103	345	128	e169	273	105	165	124	396	56	42
12	62	52	407	115	e160	4250	98	109	254	352	55	40
13	60	49	163	109	e151	e11500	87	74	121	610	51	83
14	59	3110	88	100	e148	e6110	84	59	144	265	49	83
15	56	1940	69	95	e143	e1380	109	53	98	181	47	44
16	55	344	61	91	e140	e801	86	51	84	170	45	37
17	54	154	56	89	e1670	e555	76	50	75	143	44	36
18	53	112	54	87	659	462	73	229	69	228	42	34
19	54	94	180	81	286	375	72	104	67	210	41	34
20	73	84	118	81	232	329	73	66	66	171	36	34
21	52	76	71	81	216	294	70	54	64	139	e38	34
22	49	74	62	1510	194	265	65	51	86	117	e37	34
23	47	70	65	1240	184	245	61	50	124	100	e38	33
24	48	66	231	337	176	231	59	60	81	120	e40	34
25	47	64	187	239	168	254	57	53	76	283	39	33
26	46	61	120	202	167	254	59	51	2220	158	39	34
27	45	60	85	186	502	200	72	65	709	102	40	34
28	45	59	1100	168	2520	183	67	67	236	170	42	34
29	45	59	245	4930	---	199	58	56	167	132	41	199
30	45	58	129	13700	---	784	48	124	146	106	39	101
31	44	---	99	1350	---	377	---	232	---	83	38	---
TOTAL	2666	7203	4556	29571	12635	33753	3733	2357	6153	6990	1489	2129
MEAN	86.0	240	147	954	451	1089	124	76.0	205	225	48.0	71.0
MAX	624	3110	1100	13700	2520	11500	494	232	2220	738	72	406
MIN	44	44	52	81	140	183	48	47	56	83	36	33
CFSM	.48	1.33	.82	5.30	2.51	6.05	.69	.42	1.14	1.25	.27	.39
IN.	.55	1.49	.94	6.11	2.61	6.98	.77	.49	1.27	1.44	.31	.44

MEAN	122	182	350	487	535	574	460	278	169	154	97.1	119
MAX	1169	1008	1771	2402	1605	2074	1539	1928	991	1110	429	697
(WY)	1986	1949	1972	1990	1987	1973	1983	1953	1989	1969	1992	1958
MIN	19.5	30.0	45.7	49.2	70.6	84.4	48.8	35.3	39.1	36.9	26.9	22.9
(WY)	1964	1970	1967	1981	1954	1955	1963	1963	1965	1960	1954	1952

SUMMARY STATISTICS		FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1942 - 1999	
ANNUAL TOTAL	129764			113235			
ANNUAL MEAN	356			310		294	
HIGHEST ANNUAL MEAN						552	1983
LOWEST ANNUAL MEAN						79.9	1954
HIGHEST DAILY MEAN	10700	Jan 7		13700	Jan 30	30700	Mar 25 1973
LOWEST DAILY MEAN	44	Aug 4		33	Sep 23	9.0	Oct 26 1993
ANNUAL SEVEN-DAY MINIMUM	45	Oct 26		34	Sep 19	18	Sep 24 1956
INSTANTANEOUS PEAK FLOW				37600	Jan 30	65000	Mar 25 1973
INSTANTANEOUS PEAK STAGE				19.67	Jan 30	22.30	Mar 25 1973
ANNUAL RUNOFF (CFSM)	1.98			1.72		1.63	
ANNUAL RUNOFF (INCHES)	26.82			23.40		22.16	
10 PERCENT EXCEEDS	623			461		487	
50 PERCENT EXCEEDS	86			86		88	
90 PERCENT EXCEEDS	49			44		36	

e Estimated

MISSISSIPPI RIVER DELTA

07375280 TANGIPAHOA RIVER AT OSYKA, MS

LOCATION.--31°00'44", long 90°27'40", in SW1/4 NW1/4 NW1/4 sec.36, T.1 N., R.7 E., Washington Meridian, Pike County, Hydrologic Unit 08070205, County code 113, on upstream left bank end of bridge on State Highway 584 at Osyka, Ms, about 1/2 mi north northeast of Osyka, MS, and about 1/2 mi upstream of the Louisiana-Mississippi State Line.

DRAINAGE AREA.--158 mi².

PERIOD OF RECORD.--Occasional discharge measurements, water years 1976-91. October 1996 to current water year.

GAGE.--Water-stage recorder. Datum of gage is 215.00 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	93	102	134	1200	265	149	90	104	85	94	75
2	101	95	104	207	367	209	140	88	91	83	88	75
3	101	96	103	321	248	172	134	87	85	83	85	76
4	101	95	104	296	208	150	127	87	83	102	82	79
5	102	92	104	192	232	138	123	89	81	207	80	102
6	106	90	106	153	227	136	119	89	80	108	78	86
7	243	90	104	156	184	138	118	87	78	92	78	102
8	149	91	107	161	164	129	117	86	80	88	79	84
9	121	93	114	148	152	212	113	85	81	92	80	92
10	110	117	108	140	145	232	111	86	82	96	90	85
11	106	128	135	127	141	200	108	100	128	155	90	78
12	104	108	126	122	134	303	105	103	93	110	84	75
13	102	101	121	120	128	2280	101	96	91	273	81	74
14	101	148	116	118	124	5480	98	91	94	126	79	75
15	100	213	113	115	122	3040	101	88	112	103	78	76
16	100	203	110	112	123	787	97	86	112	96	76	72
17	100	152	108	112	191	296	94	85	88	91	74	72
18	99	125	107	111	222	224	93	83	84	96	80	70
19	98	113	113	109	187	189	92	84	81	93	75	70
20	99	108	127	108	166	167	93	83	79	92	73	70
21	98	107	118	108	147	154	94	81	78	89	74	72
22	95	102	115	120	138	145	94	81	78	87	75	72
23	94	102	115	423	130	135	95	82	113	85	75	71
24	87	104	119	206	126	131	95	83	101	86	74	68
25	90	104	136	161	124	130	95	83	96	114	84	70
26	92	103	134	140	124	139	93	80	114	96	91	71
27	91	102	130	129	127	131	93	80	137	197	79	72
28	91	102	211	123	279	125	92	80	103	196	76	72
29	92	103	221	222	---	122	92	78	93	142	77	94
30	94	103	193	6370	---	133	92	86	88	108	77	128
31	94	---	153	3390	---	167	---	126	---	104	74	---
TOTAL	3261	3383	3877	14454	5860	16259	3168	2713	2808	3575	2480	2378
MEAN	105	113	125	466	209	524	106	87.5	93.6	115	80.0	79.3
MAX	243	213	221	6370	1200	5480	149	126	137	273	94	128
MIN	87	90	102	108	122	122	92	78	78	83	73	68
MED	100	103	115	140	150	167	98	86	90	96	79	75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

	1996	1997	1998	1999
MEAN	109	136	226	616
MAX	124	196	430	1044
(WY)	1998	1998	1998	1998
MIN	98.7	98.1	123	337
(WY)	1997	1997	1997	1997

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1996 - 1999

ANNUAL TOTAL	97273	64216	271
ANNUAL MEAN	267	176	336
HIGHEST ANNUAL MEAN			176
LOWEST ANNUAL MEAN			176
HIGHEST DAILY MEAN	7690	Jan 7	6370
LOWEST DAILY MEAN	87	Oct 24	68
ANNUAL SEVEN-DAY MINIMUM	91	Oct 23	70
INSTANTANEOUS PEAK FLOW			8540
INSTANTANEOUS PEAK STAGE			15.95
INSTANTANEOUS LOW FLOW			68
10 PERCENT EXCEEDS	464	196	339
50 PERCENT EXCEEDS	126	102	119
90 PERCENT EXCEEDS	98	78	78

MISSISSIPPI RIVER DELTA

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07377000 AMITE RIVER NEAR DARLINGTON, LA

LOCATION.--Lat 30°53'20", long 90°50'40", in sec. 72, T. 2 S., R. 4 E., St. Helena Meridian, St. Helena Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on State Highway 10, 1.5 mi upstream from Collins Creek, and 4.0 mi west of Darlington.

DRAINAGE AREA.--580 mi².

PERIOD OF RECORD.--March 1949 to September 1950 (annual maximum), October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 145.81 ft above sea level. Jan. 13, 1951, to May 28, 1963, water-stage recorder at former channel 700 ft to the left; and July 30, 1963, to Feb. 12, 1964, nonrecording gage at present site. Prior to Oct. 1, 1963, at datum 2.99 ft higher.

REMARKS.--Records good, except for estimated daily discharge, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry and raingage at station.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 14	1442	*24,100	*17.09	Jan. 30	1930	9,420	12.41

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	294	276	270	493	3920	1950	e1900	432	447	563	396	274
2	294	283	268	592	1720	1070	e1600	429	419	546	385	272
3	293	302	271	1780	1120	803	e1300	429	405	539	372	274
4	292	289	275	1390	986	705	e1000	429	397	567	365	276
5	296	278	275	748	1620	618	e840	432	392	579	358	280
6	339	273	273	560	1070	578	e780	431	389	544	352	298
7	711	271	270	532	806	589	e720	425	385	526	350	330
8	580	275	277	667	705	556	e680	417	387	518	338	424
9	399	278	287	691	642	880	e640	413	410	934	308	341
10	343	296	289	589	600	1520	e600	428	439	799	579	316
11	323	331	324	494	591	1040	e580	489	410	730	439	293
12	312	316	459	439	565	955	e560	513	396	730	352	279
13	306	295	1070	407	527	5080	e520	506	406	1080	330	275
14	302	317	687	383	500	17100	e500	453	447	638	315	273
15	299	1220	480	367	484	e15000	e480	432	426	496	305	267
16	297	1030	385	355	478	e10000	e470	422	438	453	298	260
17	294	546	343	348	577	e6000	e460	415	412	437	294	256
18	292	387	321	339	905	e2500	e455	412	445	601	293	255
19	290	334	327	330	1120	e1700	e450	411	399	652	290	255
20	289	308	367	326	785	e1500	e440	410	379	479	292	255
21	285	290	369	326	626	e1300	e430	406	395	446	299	254
22	278	283	335	334	557	e1100	e440	404	546	435	292	250
23	274	281	321	589	516	e1000	e445	402	589	410	284	248
24	274	281	351	576	492	e900	e450	406	601	402	280	244
25	277	278	508	466	474	e840	e460	403	571	423	277	244
26	279	275	594	400	462	e760	e470	400	633	404	283	247
27	278	274	511	370	465	e720	e490	396	1160	462	300	246
28	277	272	822	355	1300	e680	446	394	837	477	278	246
29	277	272	1460	365	---	e640	442	398	688	706	277	313
30	278	272	960	6700	---	e620	436	434	594	511	272	354
31	278	---	627	8120	---	e2200	---	486	---	425	272	---
TOTAL	9900	10683	14376	30431	24613	80904	19484	13257	14842	17512	10125	8399
MEAN	319	356	464	982	879	2610	649	428	495	565	327	280
MAX	711	1220	1460	8120	3920	17100	1900	513	1160	1080	579	424
MIN	274	271	268	326	462	556	430	394	379	402	272	244
CFSM	.55	.61	.80	1.69	1.52	4.50	1.12	.74	.85	.97	.56	.48
IN.	.63	.69	.92	1.95	1.58	5.19	1.25	.85	.95	1.12	.65	.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1999, BY WATER YEAR (WY)

	MEAN	460	565	1092	1289	1727	1613	1564	937	594	509	438	484
MAX	2964	2528	4106	3870	4793	5194	6032	4275	2915	2184	1491	2081	
(WY)	1965	1958	1972	1998	1966	1980	1983	1953	1975	1989	1975	1975	
MIN	197	225	263	339	363	413	346	257	264	261	218	220	
(WY)	1964	1970	1967	1957	1970	1955	1963	1965	1969	1960	1954	1963	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1951 - 1999
ANNUAL TOTAL	336629	254526	
ANNUAL MEAN	922	697	928
HIGHEST ANNUAL MEAN			1924
LOWEST ANNUAL MEAN			380
HIGHEST DAILY MEAN	23600	Jan 8	58500
LOWEST DAILY MEAN	268	Dec 2	188
ANNUAL SEVEN-DAY MINIMUM	271	Nov 27	190
INSTANTANEOUS PEAK FLOW		24100	104000
INSTANTANEOUS PEAK STAGE		17.09	22.05
INSTANTANEOUS LOW FLOW		242	188
INSTANTANEOUS LOW STAGE		1.87	0.39
ANNUAL RUNOFF (CFSM)	1.59	1.20	1.60
ANNUAL RUNOFF (INCHES)	21.59	16.32	21.75
10 PERCENT EXCEEDS	1840	1000	1600
50 PERCENT EXCEEDS	368	423	421
90 PERCENT EXCEEDS	279	275	255

e Estimated

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the USGS collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low- or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better area coverage to these events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at flood hydrograph partial-record stations are presented in the following tables. Annual maximum discharges for crest-stage partial-record stations, discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

The data given in the following tables generally comprises a description of the station and a table showing time, gage height, and discharge at selected times for major peaks that occurred during the year.

The description of the station gives the location, drainage area, period of record, type and history of gages, extremes of discharge, and general remarks. The explanation of data presented is identical to that for gaging stations.

Flood hydrograph partial-record stations

MOBILE RIVER BASIN

02437000 TOMBIGBEE RIVER NEAR AMORY, MS

LOCATION.--Lat 34°59'07", long 88°33'06", in NW1/4 NE1/4 sec.3, T.12 S., R.7 E., Chickasaw Meridian, Monroe County, Hydrologic Unit 03160101, near right bank on downstream side of bridge on U.S. Highway 278, 0.3 mi downstream from Town Creek, 3.5 mi west of Amory, and at mile 378.9.

DRAINAGE AREA.--1,928 mi², prior to construction of Tennessee-Tombigbee Waterway.

PERIOD OF RECORD.--October 1937 to September 1985. October 1985 to September 1987 (high-water records only). 1988-Current year (flood hydrograph only). Monthly discharge only for October and November 1937, published in WSP 1304. Daily mean gage heights published October 1971 to September 1986.

REVISED RECORDS.--WSP 1504: 1948. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 178.34 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to Oct. 10, 1939, nonrecording gage at site 1,500 ft upstream at same datum. Oct. 10, 1939 to Oct. 16, 1948, nonrecording gage at present site and datum. Water-stage recorder for station at Aberdeen (station 02437500), 20 mi downstream, was used as an auxiliary gage for this station 1950-58.

REMARKS.--Records good. Some regulation by Tennessee-Tombigbee Waterway. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--47 years, (water year 1937-84) 3,156 ft³/s, 22.22 in/yr, prior to construction of Tennessee-Tombigbee Waterway.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 162,000 ft³/s, Mar. 17, 1973, gage height, 34.65 ft, minimum, 45 ft³/s, Sept. 20, 1954, minimum gage height, 0.77 ft, Sept. 1, 1943.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1892 reached a stage of 33.5 ft and the flood of December 1926 reached a stage of 31.5 ft, from U. S. Army Corps of Engineers profiles.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,700 ft³/s, Jan. 23, gage height, 25.76 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1999 WATER YEAR

Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge
12-11	1200	12.02	2,520	01-21	1200	12.30	2,830	03-12	0400	14.20	5,360
12-11	2400	12.06	2,560	01-21	2400	12.20	2,720	03-12	1200	13.66	4,580
12-12	0400	12.05	2,550	01-22	0800	12.34	2,870	03-12	2000	13.41	4,230
12-12	0800	12.66	3,250	01-22	1200	12.50	3,060	03-12	2400	13.39	4,200
12-12	1200	16.48	9,320	01-22	1600	13.08	3,780	03-13	0400	13.46	4,300
12-12	1600	19.00	15,000	01-22	2000	18.74	14,300	03-13	0800	13.83	4,820
12-12	1800	19.74	16,900	01-22	2400	20.85	19,800	03-13	1200	17.28	11,000
12-12	2000	20.36	18,500	01-23	0200	21.75	22,700	03-13	1400	18.39	13,500
12-12	2200	20.89	19,900	01-23	0400	22.65	25,900	03-13	1600	19.18	15,400
12-12	2400	21.25	21,100	01-23	0600	23.39	28,700	03-13	1800	19.80	17,000
12-13	0100	21.37	21,500	01-23	0800	24.13	31,800	03-13	2000	20.32	18,400
12-13	0200	21.47	21,800	01-23	1000	24.72	34,600	03-13	2200	20.74	19,500
12-13	0300	21.52	22,000	01-23	1200	25.19	36,900	03-13	2400	21.05	20,400
12-13	0400	21.55	22,100	01-23	1300	25.37	37,700	03-14	0100	21.16	20,800
12-13	0500	21.49	21,900	01-23	1400	25.49	38,300	03-14	0200	21.22	21,000
12-13	0600	21.45	21,700	01-23	1500	25.60	38,900	03-14	0300	21.26	21,100
12-13	0700	21.32	21,300	01-23	1600	25.70	39,400	03-14	0400	21.29	21,200
12-13	0800	21.17	20,800	01-23	1700	25.72	39,500	03-14	0500	21.29	21,200
12-13	1000	20.73	19,500	01-23	1800	25.76	39,700	03-14	0600	21.24	21,000
12-13	1200	20.12	17,900	01-23	1900	25.74	39,600	03-14	0700	21.23	21,000
12-13	1400	19.42	16,000	01-23	2000	25.72	39,500	03-14	0800	21.19	20,900
12-13	1600	18.68	14,200	01-23	2100	25.70	39,400	03-14	0900	21.12	20,600
12-13	2000	17.25	10,900	01-23	2200	25.65	39,100	03-14	1100	20.96	20,100
12-13	2400	16.13	8,640	01-23	2400	25.50	38,400	03-14	1300	20.75	19,600
12-14	0400	15.40	7,300	01-24	0200	25.27	37,300	03-14	1500	20.55	19,000
12-14	0800	15.00	6,620	01-24	0400	25.02	36,000	03-14	1700	20.27	18,300
12-14	1600	14.35	5,580	01-24	0600	24.71	34,500	03-14	2100	19.57	16,400
12-14	2400	14.21	5,370	01-24	0800	24.43	33,200	03-15	0100	18.99	14,900
12-15	1200	14.50	5,810	01-24	1000	24.17	32,000	03-15	0500	18.57	13,900
12-15	2400	14.53	5,860	01-24	1400	23.77	30,300	03-15	0900	18.26	13,200
				01-24	1800	23.60	29,600	03-15	1700	18.29	13,200
				01-24	2200	23.61	29,600	03-16	0100	18.73	14,300
				01-25	0200	23.68	29,900	03-16	1300	18.70	14,200
				01-25	0600	23.77	30,300	03-17	0100	17.83	12,200
				01-25	1000	23.79	30,300				
				01-25	1800	23.49	29,100				
				01-26	0600	21.84	23,000				
				01-26	1400	20.40	18,600				
				01-26	2200	18.80	14,500				
				01-27	1000	17.18	10,800				
				01-27	2200	16.24	8,850				

Flood hydrograph partial-record stations

MOBILE RIVER BASIN--Continued

02441000 TIBBEE CREEK NEAR TIBBEE, MS

LOCATION.--Lat 33°32'16", long 88°38'00", in NW1/4 NW1/4 sec.4, T.18 N., R.16 E., Choctaw Meridian, Clay County, Hydrologic Unit 03160104, on right bank 10 ft downstream from bridge on old State Highway 25, 560 ft upstream from Illinois Central and Gulf Railroad bridge, 0.7 mi north of Tibbee, 4.5 mi upstream from Magee Creek, 5.0 mi south of West Point, 9.8 mi upstream from Catalpa Creek, and 17.7 mi upstream from mouth.

DRAINAGE AREA.--926 mi².

PERIOD OF RECORD.--August 1928 to September 1930, October 1939 to January 1981, February 1981 to September 1987 (high-water records only). October 1987 to current year (flood hydrograph only). Monthly discharge only for September 1930 and October 1939, published in WSP 1034. Prior to October 1950, published as Tibbee River near Tibbee.

REVISED RECORDS.--WSP 1504: 1929-30. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 154.07 ft above sea level (levels by U. S. Army Corps of Engineers). Aug. 7, 1928 to Aug. 31, 1930, nonrecording gage at site 560 ft downstream at present datum. Nov. 5 to Dec. 6, 1939, nonrecording gage at present site and datum.

REMARKS.--Records fair. U.S. Army Corps of Engineers radio telemeter at station.

AVERAGE DISCHARGE.--43 years (water years 1929-30, 1940-80), 1,343 ft³/s, 19.70 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,600 ft³/s, Mar. 17, 1973, gage height, 32.26 ft, no flow at times many years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1926 reached a stage of 31.5 ft, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 17,700 ft³/s, Jan. 25, gage height 24.80 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1999 WATER YEAR

Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge
01-22	1200	9.22	537	01-29	2000	11.58	1,610	06-27	1200	11.67	1,640
01-22	2400	14.90	3,080	01-30	0800	16.71	4,120	06-27	2400	12.85	2,110
01-23	0800	16.87	4,240	01-30	1600	18.94	5,640	06-28	1200	15.00	3,130
01-23	1600	18.18	5,090	01-30	2400	21.35	7,570	06-28	2000	16.09	4,080
01-23	2400	19.64	6,170	01-31	0400	22.07	8,440	06-29	0400	17.75	4,790
01-24	0400	20.64	6,980	01-31	0800	22.59	9,590	06-29	0800	19.30	5,910
01-24	0800	21.52	7,720	01-31	1200	22.98	10,500	06-29	1200	20.82	7,130
01-24	1200	22.16	8,630	01-31	1300	23.13	11,000	06-29	1600	22.02	8,340
01-24	1600	22.54	9,470	01-31	1400	23.22	11,300	06-29	2000	22.75	9,970
01-24	2000	23.07	10,800	01-31	1500	23.30	11,600	06-29	2200	23.13	11,000
01-24	2400	23.69	13,000	01-31	1600	23.34	11,700	06-29	2400	23.51	12,400
01-25	0200	23.96	14,100	01-31	1700	23.39	11,900	06-30	0200	23.80	13,500
01-25	0400	24.26	15,300	01-31	1800	23.47	12,200	06-30	0400	23.99	14,200
01-25	0600	24.50	16,400	01-31	1900	23.47	12,200	06-30	0500	24.07	14,500
01-25	0800	24.67	17,100	01-31	2000	23.51	12,400	06-30	0600	24.09	14,600
01-25	1000	24.75	17,500	01-31	2100	23.51	12,400	06-30	0700	24.10	14,700
01-25	1200	24.79	17,700	01-31	2200	23.49	12,300	06-30	0800	24.12	14,800
01-25	1300	24.80	17,700	01-31	2300	23.56	12,500	06-30	0900	24.12	14,800
01-25	1400	24.79	17,700	01-31	2400	23.51	12,400	06-30	1000	24.12	14,800
01-25	1500	24.76	17,600	02-01	0100	23.52	12,400	06-30	1100	24.09	14,600
01-25	1600	24.73	17,400	02-01	0200	23.51	12,400	06-30	1200	24.03	14,400
01-25	1700	24.71	17,300	02-01	0300	23.48	12,200	06-30	1300	24.02	14,300
01-25	1800	24.64	17,000	02-01	0400	23.48	12,200	06-30	1400	24.00	14,300
01-25	1900	24.60	16,800	02-01	0500	23.43	12,100	06-30	1600	23.88	13,800
01-25	2000	24.53	16,500	02-01	0600	23.41	12,000	06-30	1800	23.78	13,400
01-25	2200	24.43	16,100	02-01	1000	23.26	11,500	06-30	2000	23.70	13,100
01-25	2400	24.29	15,500	02-01	1400	23.19	11,200	06-30	2200	23.57	12,600
01-26	0400	24.00	14,300	02-01	1800	23.03	10,700	07-01	0200	23.27	11,500
01-26	0800	23.63	12,800	02-01	2200	22.87	10,300	07-01	0600	22.94	10,400
01-26	1200	23.21	11,300	02-02	0600	22.37	9,090	07-01	1000	22.54	9,470
01-26	1600	22.82	10,100	02-02	1400	21.83	8,090	07-01	1400	22.05	8,400
01-26	2000	22.31	8,960	02-02	2200	21.01	7,290	07-01	2200	20.89	7,190
01-26	2400	21.68	7,910	02-03	1200	19.12	5,770	07-02	0600	19.48	6,050
01-27	0800	20.18	6,610	02-03	2400	16.92	4,250	07-02	1400	18.02	4,980
01-27	1600	18.47	5,290	02-04	1200	14.25	2,750	07-02	2200	16.59	4,040
01-27	2400	16.90	4,230	02-04	2400	11.23	1,490	07-03	1000	14.53	2,890
01-28	1200	14.36	2,800	02-05	1200	10.06	986	07-03	2200	11.95	1,750
01-28	2400	12.00	1,770	02-05	2400	9.72	827				

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Flood hydrograph partial-record stations

PEARL RIVER BASIN

02485800 EUBANKS CREEK AT JACKSON, MS

LOCATION.--Lat 32°20'22", long 90°09'51", in NW1/4 NE1/4 sec.26, T.6 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, near left bank at downstream side of Wood Dale Drive bridge in Jackson, about 1,600 ft upstream from Interstate 55 and 1.3 mi upstream from the mouth.

DRAINAGE AREA.--3.91 mi².

PERIOD OF RECORD.--August 1953 to current year (annual peaks only prior to 1988 water year).

GAGE.--Water-stage recorder. Datum of gage is 262.02 ft above sea level, supplementary adjustment of 1941. A continuous recorder was previously located 1,600 ft downstream from the present site at datum 0.74 ft lower than the present and was in operation from July 1954 to August 1959. A crest-stage gage was also in operation from November 1953 through February 1959, located 1,700 ft downstream from the present site.

REMARKS.--Records fair. Occasional backwater from Pearl River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft³/s, Apr. 29, 1953, gage height, 12.20 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,400 ft³/s, Jan. 30, gage height 9.98 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1999 WATER YEAR

Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge
01-30	0030	5.44	297	04-14	2115	4.88	169	07-24	1545	4.58	132
01-30	0100	5.00	226	04-14	2130	7.34	626	07-24	1600	7.50	665
01-30	0130	4.61	171	04-14	2145	7.79	738	07-24	1615	8.67	980
01-30	0215	4.20	121	04-14	2200	7.09	568	07-24	1630	8.88	1,040
01-30	0500	3.93	93	04-14	2215	5.75	300	07-24	1645	7.98	787
01-30	0600	4.30	126	04-14	2230	5.07	195	07-24	1700	7.37	633
01-30	0700	4.83	185	04-14	2245	4.64	139	07-24	1715	6.64	469
01-30	0730	4.92	193	04-14	2300	4.31	102	07-24	1730	5.89	324
01-30	0815	4.70	157	04-14	2315	4.05	76	07-24	1745	5.32	231
01-30	0830	4.97	192					07-24	1800	4.89	170
01-30	0845	7.56	695					07-24	1815	4.58	132
01-30	0900	9.29	1,190	06-14	1315	6.11	364	07-24	1830	4.33	104
01-30	0915	9.74	1,330	06-14	1330	9.24	1,150	07-24	1845	4.12	83
01-30	0930	9.89	1,370	06-14	1345	9.75	1,320				
01-30	0945	9.98	1,400	06-14	1400	9.36	1,190				
01-30	1000	9.64	1,280	06-14	1415	8.79	1,020				
01-30	1015	8.88	1,040	06-14	1430	8.22	852				
01-30	1030	7.97	785	06-14	1445	7.29	614				
01-30	1045	7.12	575	06-14	1500	6.21	383				
01-30	1100	6.38	416	06-14	1515	5.37	239				
01-30	1115	5.86	319	06-14	1530	4.76	153				
01-30	1145	5.16	207	06-14	1545	4.40	111				
01-30	1215	4.71	147	06-14	1600	4.15	86				
01-30	1300	4.36	107								
01-30	1330	4.30	101								

Flood hydrograph partial-record stations

PEARL RIVER BASIN--Continued

02485950 TOWN CREEK AT JACKSON, MS

LOCATION.--Lat 32°18'15", long 90°11'33", in NW1/4 SW1/4sec.3, T.5 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, at bridge on Gallatin street in Jackson, 300 ft upstream of Illinois Central Railroad and 2.5 mi upstream from mouth.

DRAINAGE AREA.--11.4 mi².

PERIOD OF RECORD.--August 1954 to current year (Annual peaks only prior to 1989 water year).

GAGE.--Water-stage recorder. Datum of gage is 260.72 ft above sea level. Prior to Mar. 2, 1988, at datum 2.00 ft higher.

REMARKS.--Records fair. Occasional backwater from Pearl River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,480 ft³/s, Apr. 14, 1983, maximum gage height, 13.00 ft present datum, Apr. 4, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1921, maximum discharge, 6,000 ft³/s, gage height, 19.00 ft (but may have been at different datum).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,470 ft³/s, Jan. 30, gage height, 10.91 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1999 WATER YEAR

Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge
01-29	1515	4.62	790	04-14	2145	3.54	469	07-24	1615	3.80	541
01-29	1530	6.32	1,390	04-14	2200	5.72	1,170	07-24	1630	5.40	1,050
01-29	1545	7.07	1,690	04-14	2215	6.00	1,270	07-24	1645	5.95	1,250
01-29	1600	7.24	1,760	04-14	2230	5.61	1,130	07-24	1700	6.33	1,390
01-29	1630	6.85	1,600	04-14	2245	4.99	911	07-24	1715	6.39	1,420
01-29	1700	6.03	1,280	04-14	2300	4.40	720	07-24	1730	6.27	1,370
01-29	1715	5.72	1,170	04-14	2315	3.99	596	07-24	1745	5.97	1,260
01-29	1745	5.35	1,030	04-14	2330	3.64	496	07-24	1800	5.58	1,120
01-29	1815	5.72	1,170	04-14	2345	3.32	410	07-24	1815	5.11	952
01-29	1845	6.04	1,280	04-14	2400	3.05	342	07-24	1830	4.50	751
01-29	1915	6.11	1,310					07-24	1845	3.99	596
01-29	2000	6.01	1,270					07-24	1900	3.48	453
01-29	2030	5.84	1,210					07-24	1915	3.18	375
01-29	2200	5.66	1,140								
01-29	2300	5.35	1,030								
01-29	2330	5.62	1,130								
01-29	2400	5.70	1,160								
01-30	0030	5.49	1,080								
01-30	0100	4.97	904								
01-30	0145	4.34	701								
01-30	0215	4.00	599								
01-30	0245	3.72	519								
01-30	0330	3.54	469								
01-30	0430	3.43	439								
01-30	0500	3.17	372								
01-30	0545	3.41	434								
01-30	0630	3.81	544								
01-30	0715	4.14	641								
01-30	0815	3.92	576								
01-30	0845	5.40	1,050								
01-30	0900	6.89	1,620								
01-30	0915	8.43	2,270								
01-30	0930	9.73	2,880								
01-30	0945	10.76	3,390								
01-30	1000	10.91	3,470								
01-30	1015	10.54	3,280								
01-30	1030	10.09	3,060								
01-30	1045	9.48	2,760								
01-30	1100	8.85	2,460								
01-30	1115	8.08	2,120								
01-30	1130	7.34	1,800								
01-30	1200	6.11	1,310								
01-30	1230	5.42	1,060								
01-30	1300	4.96	901								
01-30	1330	4.56	770								
01-30	1415	3.92	576								
01-30	1515	3.53	466								
01-30	1630	3.33	413								

Flood hydrograph partial-record stations

PEARL RIVER BASIN--Continued

02486100 LYNCH CREEK AT JACKSON, MS

LOCATION.--Lat 32°17'03", long 90°12'53", in SW1/4 SE1/4 sec.8, T.5 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, near left bank at the downstream side of Valley Street bridge in Jackson, 2,000 ft downstream of Highway 80, and 2.0 mi upstream from the mouth.

DRAINAGE AREA.--12.0 mi² (11.1 mi² at U.S. Highway 80, furnished by City of Jackson plus 0.9 mi² intervening area estimated from City of Jackson 2-ft contour map).

PERIOD OF RECORD.--August 1954 to current year (annual peaks only prior to 1988 water year).

GAGE.--Water-stage recorder. Datum of gage is 261.68 ft above sea level.

REMARKS.--Records fair. Occasional backwater from Pearl River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,180 ft³/s, Apr. 20, 1995, gage height, 16.30 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 29, 1953, maximum discharge, 7,500 ft³/s, gage height, 18.9 ft (from floodmark). Flood prior to 1939 reached a stage of 19.2 ft (from Mississippi Highway Department).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,980 ft³/s, Jan. 30, 1999, gage height 14.77 ft.

GAGE-HEIGHT, IN FEET, AND DISCHARGE IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1999 WATER YEAR

Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge
01-02	0600	4.44	116	01-29	1445	4.20	95	07-19	1830	4.41	113
01-02	0615	7.07	520	01-29	1500	4.52	123	07-19	1845	8.15	786
01-02	0630	8.41	859	01-29	1515	8.21	804	07-19	1900	9.00	1,040
01-02	0645	8.73	957	01-29	1530	11.08	1,850	07-19	1915	8.89	1,010
01-02	0700	8.93	1,020	01-29	1545	11.85	2,220	07-19	1930	8.47	876
01-02	0715	9.10	1,080	01-29	1600	12.01	2,300	07-19	1945	8.29	825
01-02	0730	9.43	1,190	01-29	1615	11.91	2,250	07-19	2000	8.40	857
01-02	0745	9.64	1,260	01-29	1645	11.62	2,110	07-19	2015	8.49	885
01-02	0800	9.75	1,310	01-29	1715	11.03	1,830	07-19	2030	8.38	853
01-02	0815	9.83	1,330	01-29	1745	10.35	1,540	07-19	2045	8.08	768
01-02	0830	9.79	1,320	01-29	1815	10.21	1,480	07-19	2100	7.63	648
01-02	0845	9.65	1,270	01-29	1845	10.28	1,510	07-19	2115	7.14	533
01-02	0900	9.45	1,190	01-29	1930	10.16	1,460	07-19	2130	6.68	437
01-02	0915	9.22	1,120	01-29	2115	9.78	1,320	07-19	2145	6.26	358
01-02	0930	8.97	1,030	01-29	2230	9.17	1,100	07-19	2200	5.91	300
01-02	0945	8.70	947	01-29	2315	9.40	1,180	07-19	2215	5.61	254
01-02	1000	8.39	854	01-29	2400	9.54	1,230	07-19	2230	5.37	220
01-02	1015	8.08	768					07-19	2245	5.16	193
01-02	1030	7.76	682	01-30	0030	9.30	1,140	07-19	2300	5.00	174
01-02	1045	7.45	606	01-30	0115	8.75	963	07-19	2315	4.85	157
01-02	1100	7.13	533	01-30	0330	6.97	497	07-19	2330	4.73	145
01-02	1115	6.89	479	01-30	0500	6.57	416	07-19	2345	4.63	134
01-02	1130	6.62	426	01-30	0615	6.96	494	07-19	2400	4.54	125
01-02	1145	6.40	384	01-30	0830	7.43	600				
01-02	1200	6.21	350	01-30	0845	9.05	1,060				
01-02	1215	6.03	319	01-30	0900	10.84	1,750				
01-02	1230	5.87	293	01-30	0915	12.55	2,590				
01-02	1300	5.60	252	01-30	0930	13.79	3,330				
01-02	1400	5.20	199	01-30	0945	14.59	3,860				
01-02	1500	4.90	163	01-30	1000	14.77	3,980				
01-02	1600	4.65	136	01-30	1030	14.33	3,680				
01-02	1800	4.29	103	01-30	1045	13.89	3,390				
01-02	2045	4.00	79	01-30	1100	13.33	3,040				
				01-30	1115	12.70	2,670				
				01-30	1130	12.03	2,310				
				01-30	1145	11.40	2,000				
				01-30	1200	10.86	1,750				
				01-30	1215	10.32	1,520				
				01-30	1230	9.78	1,320				
				01-30	1245	9.23	1,120				
				01-30	1300	8.70	948				
				01-30	1330	7.83	699				
				01-30	1400	7.20	547				
				01-30	1430	6.73	448				
				01-30	1515	6.25	357				
				01-30	1800	5.23	202				
				01-30	2400	4.32	104				

Flood hydrograph partial-record stations

PEARL RIVER BASIN--Continued

02486350 CANY CREEK AT JACKSON, MS

LOCATION.--Lat 32°14'16", long 90°13'59", in NW1/4 NE1/4 sec.31, T.5 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, at bridge on Terry Road (Old U.S. Highway 51 south) at Jackson, and about 2.5 mi upstream from the confluence with the Pearl River.

DRAINAGE AREA.--8.38 mi².

PERIOD OF RECORD.--Occasional discharge measurements, annual maximums, water years 1961-77. November 1993 to September 1994 (high water records only).

GAGE.--Water-stage recorder. Datum of gage is 255.00 ft above sea level. November 1960 to September 1977 crest-stage gage at same site and datum 55 ft lower.

REMARKS.--Records fair. Backwater from Pearl River: Jan. 14-15, 23-26. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,400 ft³/s, Apr. 16, 1973, gage height, 15.89 ft present datum, minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,800 ft³/s, Jan. 30, gage height 13.19 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1999 WATER YEAR											
Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge
01-22	1705	4.01	101	03-02	2225	4.11	112	05-26	1600	4.17	118
01-22	1725	4.36	141	03-02	2230	4.25	128	05-26	1615	6.13	462
01-22	1735	4.55	167	03-02	2240	4.82	206	05-26	1630	6.50	554
01-22	1740	4.76	197	03-02	2250	5.66	358	05-26	1645	6.58	575
01-22	1745	5.19	268	03-02	2255	5.80	388	05-26	1700	6.57	573
01-22	1750	5.81	390	03-02	2300	5.93	416	05-26	1715	6.46	544
01-22	1755	6.29	501	03-02	2305	6.03	439	05-26	1730	6.35	516
01-22	1800	6.67	600	03-02	2310	6.11	458	05-26	1745	6.22	484
01-22	1805	6.82	641	03-02	2315	6.19	477	05-26	1800	6.06	446
01-22	1810	6.98	687	03-02	2320	6.22	484	05-26	1815	5.89	407
01-22	1815	7.04	705	03-02	2330	6.29	501	05-26	1830	5.72	371
01-22	1820	7.18	747	03-02	2335	6.28	499	05-26	1845	5.56	338
01-22	1825	7.23	762	03-02	2345	6.30	504	05-26	1900	5.31	289
01-22	1830	7.28	777	03-02	2350	6.28	499	05-26	1915	4.91	220
01-22	1835	7.25	768	03-02	2400	6.25	491	05-26	1930	4.60	174
01-22	1840	7.24	765					05-26	1945	4.41	148
01-22	1845	7.30	783	03-03	0015	6.22	484	05-26	2000	4.34	139
01-22	1855	7.35	799	03-03	0055	6.03	439	05-26	2015	4.28	132
01-22	1905	7.20	753	03-03	0105	5.97	425	05-26	2045	4.18	120
01-22	1920	7.06	710	03-03	0115	5.93	416	05-26	2115	4.10	111
01-22	1945	6.85	650	03-03	0140	5.80	388	05-26	2215	4.00	100
01-22	2005	6.68	602	03-03	0200	5.71	368				
01-22	2035	6.49	552	03-03	0225	5.58	342				
01-22	2055	6.33	511	03-03	0255	5.42	310				
01-22	2150	5.96	423	03-03	0320	5.24	277				
01-22	2220	5.79	385	03-03	0340	4.99	233				
01-22	2240	5.57	340	03-03	0355	4.78	200				
01-22	2255	5.35	297	03-03	0410	4.61	175				
01-22	2320	5.04	242	03-03	0435	4.41	148				
01-22	2345	4.86	212	03-03	0525	4.19	121				
				03-03	0615	4.01	101				

e Estimated

a From flood mark, affected by backwater.

Flood hydrograph partial-record stations

PEARL RIVER BASIN--Continued

02489000 PEARL RIVER NEAR COLUMBIA, MS

LOCATION.--Lat 31°28'14", long 89°58'25", in NE1/4 NW1/4 sec.7, T.3 N., R.18 W., St. Stephens Meridian, Marion County, Hydrologic Unit 03180004, on downstream side of bridge on U.S. Highway 98, 1.5 mi southwest of Columbia, 2.0 mi downstream from Fernwood, Columbia and Gulf Railroad bridge, 2.2 mi upstream from Silver Creek and at mile 137.8.

DRAINAGE AREA.--5,720 mi².

PERIOD OF RECORD.--August 1928 to September 1954 (monthly discharge only for January to July 1930, published in WSP 1304). January 1972 to September 1998 (gage heights only). 1999 water year (flood hydrograph only). Gage height records collected at same site November 1904 to December 1971 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 115.81 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to August 1928, nonrecording gages at various sites and datums in the vicinity maintained by National Weather Service. August 1928 to May 26, 1934, nonrecording gage at site 1.0 mi downstream at datum 0.37 ft higher. May 26, 1934 to September 1954, water-stage recorder at present site and datum.

REMARKS.--Records good. Satellite telemeter at station.

AVERAGE DISCHARGE.--26 years (1928-54), 7,384 ft³/s, 17.62 in/yr.

EXTREMES FOR PERIOD OF RECORD.--1928-1954: Maximum discharge, 72,600 ft³/s, Apr. 9, 1938, gage height, 26.40 ft, minimum, 705 ft³/s, Oct. 21, 1952, gage height 0.81 ft 1904 to current year: Maximum observed gage height, 27.8 ft, Apr. 22, 1979.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1874 reached a stage of about 31 ft, from information by National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 33,500 ft³/s, Mar. 15, gage-height 17.26 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1999 WATER YEAR

Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge	Date	Time	Gage Height	Discharge
02-01	1000	15.12	27,000	03-13	2200	14.53	26,000	03-26	1100	6.54	6,780
02-01	2000	15.58	28,300	03-14	0200	14.89	27,000	03-26	1500	6.85	7,320
02-02	1000	16.06	29,800	03-14	0600	15.14	27,600	03-26	1900	7.24	8,020
02-02	2000	16.25	30,400	03-14	1000	15.46	28,500	03-26	2300	7.65	8,780
02-03	1000	16.46	31,000	03-14	1400	15.86	29,700	03-27	0300	8.06	9,570
02-03	1500	16.53	31,200	03-14	1800	16.21	30,700	03-27	0700	8.42	10,300
02-03	2000	16.59	31,400	03-14	2200	16.53	31,600	03-27	1100	8.71	10,900
02-03	2400	16.65	31,600	03-15	0200	16.76	32,200	03-27	1500	8.93	11,300
02-04	0500	16.69	31,700	03-15	0600	16.92	32,700	03-27	1900	9.10	11,700
02-04	1000	16.76	31,900	03-15	1000	17.10	33,200	03-27	2300	9.18	11,900
02-04	1300	16.76	31,900	03-15	1400	17.20	33,400	03-27	2400	9.21	11,900
02-04	1400	16.73	31,900	03-15	1500	17.21	33,400	03-28	0100	9.24	12,000
02-04	1500	16.81	32,100	03-15	1600	17.24	33,500	03-28	0200	9.25	12,000
02-04	1600	16.80	32,100	03-15	1700	17.25	33,500	03-28	0300	9.25	12,000
02-04	1700	16.82	32,100	03-15	1800	17.26	33,500	03-28	0400	9.26	12,000
02-04	1800	16.82	32,100	03-15	1900	17.24	33,500	03-28	0500	9.27	12,000
02-04	1900	16.82	32,100	03-15	2000	17.25	33,500	03-28	0600	9.26	12,000
02-04	2000	16.81	32,100	03-15	2100	17.25	33,500	03-28	0700	9.26	12,000
02-04	2100	16.81	32,100	03-15	2200	17.18	33,300	03-28	0800	9.26	12,000
02-04	2200	16.86	32,300	03-16	0200	17.09	33,000	03-28	0900	9.26	12,000
02-04	2300	16.80	32,100	03-16	0600	17.02	32,800	03-28	1000	9.25	12,000
02-04	2400	16.85	32,200	03-16	1000	16.84	32,200	03-28	1100	9.25	12,000
02-05	0100	16.87	32,300	03-16	1400	16.61	31,500	03-28	1200	9.22	11,900
02-05	0200	16.90	32,400	03-16	1800	16.35	30,700	03-28	1600	9.17	11,800
02-05	0300	16.86	32,300	03-16	2200	16.04	29,700	03-28	2000	9.05	11,600
02-05	0400	16.86	32,300	03-17	0200	15.69	28,700	03-28	2400	8.90	11,300
02-05	0500	16.89	32,400	03-17	0600	15.34	27,600	03-29	0400	8.74	10,900
02-05	0600	16.81	32,100	03-17	1000	15.02	26,700	03-29	0800	8.54	10,500
02-05	0700	16.93	32,500	03-17	1400	14.68	25,700	03-29	1200	8.33	10,100
02-05	0800	16.87	32,300					03-29	1600	8.08	9,610
02-05	0900	16.89	32,400					03-29	2000	7.84	9,140
02-05	1000	16.84	32,200					03-29	2400	7.60	8,680
02-05	1100	16.87	32,300								
02-05	1200	16.88	32,300								
02-05	1300	16.89	32,400								
02-05	1400	16.88	32,300								
02-05	1500	16.89	32,400								
02-05	1600	16.82	32,100								
02-05	1700	16.82	32,100								
02-05	1800	16.82	32,100								
02-05	1900	16.83	32,200								
02-05	2000	16.83	32,200								
02-05	2100	16.85	32,200								
02-05	2200	16.86	32,300								
02-05	2300	16.86	32,300								
02-05	2400	16.86	32,300								
02-06	0500	16.80	32,100								
02-06	1000	16.84	32,200								
02-06	1500	16.80	32,100								
02-06	2000	16.77	32,000								
02-07	0100	16.73	31,900								
02-07	1000	16.66	31,600								
02-07	2000	16.66	31,600								
02-08	1000	16.53	31,200								
02-08	2000	16.47	31,000								
02-09	1000	16.38	30,800								
02-09	2000	16.33	30,600								
02-10	1000	16.30	30,500								
02-10	2000	16.30	30,500								
02-11	1000	16.30	30,500								
02-11	2000	16.15	30,100								
02-12	1000	15.70	28,700								
02-12	2000	15.39	27,800								

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1999 maximum		Period of record maximum		Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
			Date		Date							
MOBILE RIVER BASIN												
Town Creek at Tupelo, MS (02434000)	Lat 34°17'40", long 88°42'32", SW1/4 SE1/4 sec. 18, T.9 S., R.6 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160102, on U.S. Highway 45, 0.5 mi north of city limits of Tupelo. Prior to 1971 at datum 0.40 ft higher. Drainage area is 111 mi ² .	1944-46+, 1952-70+, 1971-99	01-23-99	23.51	8,800	03-21-55	27.72	23,000				
Coonewah Creek at Shannon, MS (02435800)	Lat 34°08'21", long 88°43'19", in SE1/4 sec. 12, T.11 S., R.5 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160102, on U.S. Highway 45, 1.0 mi north of Shannon and 4.5 mi upstream from mouth. Drainage area is 53.1 mi ² .	1953-99	01-23-99	17.47	10,800	04-11-62	19.57	22,400				
Chiwapa Creek at Shannon, MS (02436000)	Lat 34°06'38", long 88°43'19", in NE1/4 SE1/4 sec. 24, T.11 S., R.5 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160102, at bridge on U.S. Highway 45W at Shannon, and 0.7 mi above Gulf, Mobile, and Ohio Railroad bridge. Drainage area is 145 mi ² .	1952-67+, 1968-99	01-23-99	14.64	25,000	03-21-55	15.72	35,500				
Mattubby Creek near Aberdeen, MS (02437300)	Lat 33°52'13", long 88°35'46", in SE1/4 SE1/4 sec. 7, T.14 S., R.7 E., Chickasaw Meridian Monroe County, Hydrologic Unit 03160101, at bridge on U.S. Highway 45, 1.5 mi above Wolf River, and 4.1 mi northwest of Aberdeen. Drainage area is 92.2 mi ² .	1952-99	01-25-99	93.25	9,360	12-21-90	95.27	14,600				
Nichols Creek tributary near Quincy, MS (02437550)	Lat 33°54'18", long 88°21'02", in SE1/4 sec. 29, T.13 S., R.10 E., Huntsville Meridian, Monroe County, Hydrologic Unit 03160101, at culvert on U.S. Highway 278, 1.0 mi southeast of Quincy. Drainage area is 0.54 mi ² .	1967-99	10-30-93 04-23-95 04-21-96 05-27-97 01-09-98 05-08-99	9.70 5.27 5.33 6.50 6.48 6.56	d630 d 92 d105 d250 d200 185	10-30-93	9.70	d630				
James Creek at Aberdeen, MS (02437600)	Lat 38°48'48", long 88°33'51", in SW1/4 SE1/4 sec. 33, T.14 S., R.7 E. Chickasaw Meridian, Monroe County, Hydrologic Unit 03160101, at bridge on State Highway 25, 0.4 mi southwest of Aberdeen. Prior to Oct. 1988, at datum 10.00 ft higher. Drainage area is 28.4 mi ² .	1964-68+, 1969-99	04-25-99	23.73	4,550	10-22-84	15.21	6,970				
Chuquatonchee Creek near Okolona, MS (02439980)	Lat 34°00'08", long 88°52'52", in NE1/4 sec. 33, T.12 S., R.4 E., Chickasaw Meridian, Chickasaw County, Hydrologic Unit 03160104, at bridge on State Highway 32, 7.5 mi west of Okolona. Drainage area is 68.6 mi ² .	1963-68, 1969-80, 1984-86, 1988-99	04-25-99	8.80	1,900	03-16-73	16.93	15,000				
Chuquatonchee Creek near Egypt, MS (02440000)	Lat 33°50'24", long 88°45'42", on line between secs. 22 and 27, T.14 S., R.5 E., Chickasaw Meridian, Chickasaw County, Hydrologic Unit 03160104, at bridge on State Highway 8, 4.5 mi southwest of Egypt. Drainage area is 167 mi ² .	1952-73+, 1974-99	04-25-99	14.58	14,500	03-16-73	16.61	36,300				
Houlka Creek near McCondy MS (02440400)	Lat 33°47'07", long 88°15'17", in SE1/4 SW1/4 sec. 11, T.15 S., R.4 E., Chickasaw Meridian, Clay County, Hydrologic Unit 03160104, at bridge on State Highway 47, 2.8 mi south of McCondy. Drainage area is 189 mi ² .	1963-68+, 1969-99	06-29-99	16.39	19,300	03-16-73	18.65	40,000				

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage partial-record stations

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1999 maximum		Period of record maximum		Date	Gage height (ft)	Dis- charge (ft ³ /s)
			Date		Date				
MOBILE RIVER BASIN--Continued									
Line Creek near Maben, MS (02440600)	Lat 33°39'17", long 89°03'40", in S1/2 sec. 26 T.16 S., R.2 E., Chickasaw Meridian, Webster County, Hydrologic Unit 0316014, at bridge on State Highway 15, 1,000 ft below Gulf, Mobile, and Ohio Railroad, and 7.0 mi north of Maben. Drainage area is 4.76 mi ² .	1952-99	06-27-99	28.62	7,970	06-27-99	28.62	7,970	
Trim Cane Creek near Starkville, MS (02440800)	Lat 33°28'09", long 88°54'29", in W1/2 sec. 25, T.19 N., R.13 E., Choctaw Meridian, Oktibbeha County, Hydrologic Unit 03160104, at bridge on U.S. Highway 82, 3.0 mi above Biba Wila Creek, and 6.0 mi west of Starkville. Drainage area is 44.9 mi ² .	1952-99	01-02-99	26.85	7,000	05-19-83	28.10	9,980	
Sand Creek trib- utary, near Mayhew, MS (02441220)	Lat 33°28'38", long 88°43'23", on line between SW1/4 sec. 27 and NW1/4 sec. 34, T.19 N., R.15 E., Choctaw Meridian, Oktibbeha County, Hydrologic Unit 03160104, on U.S. Highway 82, 3.7 mi west of Hayhew. Drainage area is 0.44 mi ² .	1966-99	01-23-99	4.84	137	04-27-84	8.75	395	
Catalpa Creek at Mayhew, MS (02441300)	Lat 33°28'53", long 88°37'43", in NE1/4 SW1/4 sec. 28, T.19 N., R.15 E., Chotaw Meridian, Oktibbeha County, Hydrologic Unit 03160104, at bridge on U.S. Highway 82, 0.5 mi east of Mayhew. Drainage area is 98.0 mi ² .	1963-68+, 1969-99	01-23-99	17.18	6,920	04-13-79	21.52	19,800	
Luxapallila Creek at Steens, MS (02443000)	Lat 33°33'37", long 88°18'55", in NE1/4 sec. 27, T.17 S., R.17 W., Huntsville Meridian, Lowndes County, Hydrologic Unit 03160105, on county high- way 0.2 mi southeast of Steens. Drainage area is 309 mi ² .	1944-47+, 1950-77+, 1978-99	01-25-99	18.31	11,900	01-06-49	19.20	16,000	
Flat Scooba Creek tribu- tary near Scooba, MS (02448620)	Lat 32°50'26", long 88°28'07", in SE1/4 sec. 32, T.12 N., R.18 E., Choctaw Meridian, Kemper County, Hydrologic Unit 03160108, at culvert on U.S. Highway 45, 0.8 mi north of Scooba. Drainage area is 0.44 mi ² .	1967-99	01-31-99	<3.67	<125	04-12-79	8.87	427	
PASCAGOULA RIVER BASIN									
Leaf River near Raleigh, MS (02471100)	Lat 32°00'43", long 89°25'57", in SE1/4 SE1/4 sec. 13, T.2 N., R.8 E., Chotaw Meridian, Smith County, Hydologic Unit 03170004, at bridge on State Highway 18, 6.0 mi east of Raleigh. Drainage area is 143 mi ² .	1940-43c, 1957-99	01-31-99	18.24	4,480	04-13-74	28.17	17,000	
Leaf River at Taylorsville, MS (02471250)	Lat 31°49'40", long 89°24'30", on line between secs. 16 and 21, T.10 N., R.14 W., St. Stephens Meridian, Smith County, Hydrologic Unit 03170004, on State Highway 28, 1.0 mi east of Taylorsville. Drainage area is 459 mi ² .	1968-99	02-01-99	46.66	11,900	04-14-74	57.44	37,600	
Oakohay Creek at Mize, MS (02471500)	Lat 31°52'00", long 89°32'49", in NW1/4 sec. 6, T.10 N., R.15 W., St. Stephens Meridian, Smith County, Hydrologic Unit 03170004, on State Highway 28, at Mize. Drainage area is 185 mi ² .	1943-49+, 1968-99	01-23-99	13.17	4,630	04-13-74	17.26	28,900	
Bowie Creek near Sandford, MS (02472420)	Lat 31°28'19", long 89°31'18", in NE1/4 sec. 20, T.6 N., R.15 W., St. Stephens Meridian, Covington County, Hydrologic Unit 03170004 at bridge on State Highway 589, 5.0 mi southwest of junction with U.S. Highway 49. Drainage area is 262 mi ² .	1968-99	03-14-99	21.20	5,860	04-13-74	32.22	a32,000	

Crest-stage partial-record stations

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1999 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
PASCAGOULA RIVER BASIN--Continued								
Gordon Creek at Hattiesburg, MS (02473047)	Lat 31°19'41", long 89°18'05", in NW1/4 NE1/4 sec. 9, T.4 N., R.13 W., St. Stephens Meridian, Forrest County, Hydrologic Unit 03170005, at bridge on Broad Street in Hattiesburg Drainage area is 8.83 mi ² .	1969-99	02-02-99	14.33	5,210	04-06-83	16.89	6,920
Tallahattah Creek near Waldrup, MS (02473480)	Lat 31°51'42", long 89°05'12", in NW1/4 SE1/4 sec. 3, T.10 N., R.11 W., St. Stephens Meridian, Jasper County, Hydrologic Unit 03170005, on paved county road, 8.7 mi south of Waldrup. Drainage area is 30.4 mi ² .	1965-70+, 1971-99	03-13-99	(b)	(†)	03-03-79	17.20	7,200
Tallahoma Creek tributary at Lake Como, MS (02473850)	Lat 31°57'43", long 89°12'19", on line between SE1/4 sec. 31, T.2 N., and NE1/4 sec. 6, T.1 N., R.11 E., Choctaw Meridian, Jasper County, Hydro- logic Unit 03170005, at culvert on State Highway 528, 0.5 mi east of Lake Como. Drainage area is 3.21 mi ² .	1966-99	04-26-97 01-07-98 03-13-99	7.68 8.35 7.92	d750 d940 740	07-13-93	11.49	2,380
Buck Creek near Runnelstown, MS (02474650)	Lat 31°21'50", long 89°03'08", in SW1/4 SE1/4 sec. 25, T.5 N., R.11 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170005, at bridge on State Highway 42, 2.5 mi above mouth and 3.7 mi east of Runnelstown. Drainage area is 20.8 mi ² .	1951-99	01-30-99	11.22	2,890	04-03-79	17.93	5,700
Thompson Creek at Richton, MS (02474800)	Lat 31°21'22", long 88°55'28", in NW1/4 sec. 32, T.5 N., R.9 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170005, at downstream side of bridge on State Highway 42, 0.7 mi east of Richton. Drainage area is 183 mi ² .	1998-99	01-08-98 01-30-99	15.58 16.52	6,360 10,300	01-30-99	16.52	10,300
Waterfall Branch near McLain, MS (02475050)	Lat 31°07'08", long 88°45'17", in SW1/4 NE1/4 SE1/4 sec. 23, T.2 N., R.8 W., St. Stephens Meridian, Greene County, Hydrologic Unit 03170005, at culvert on State Highway 57, 4.2 mi east of McLain. Prior to Oct. 1, 1964, at datum 0.72 ft lower. Drainage area is 0.65 mi ² .	1955-99	03-15-99	7.34	317	06-01-59	11.71	764
Souinlovey Creek near Baxter, MS (02477050)	Lat 32°13'10", long 89°09'30", in NE1/4 sec. 35, T.1 N., R.11 E., Choctaw Meridian, Jasper County, Hydrologic Unit 03170002, at culvert on State Highway 15, 2.6 mi north of Baxter. Drainage area is 1.14 mi ² .	1965-99	d03-04-79 02-01-99	d10.36 3.91	d680 75	06-24-93	13.56	1,150
Shubuta Creek near Shubuta, MS (02477330)	Lat 31°53'07", long 88°44'21", in NW1/4 sec. 35, T.1 N., R.15 E., Choctaw Meridian, Clarke County, Hydrologic Unit 03170002, at county hightway, 1.5 mi northwest of Shubuta and 5.0 mi above mouth. Drainage are is 75.5 mi ² .	1963-99	01-30-99	17.89	2,930	04-25-73	24.88	12,700
TCHOUTACABOUFFA RIVER BASIN								
Tuxachanie Creek near Biloxi, MS (02480500)	Lat 30°30'35", long 88°54'32", in SE1/4 sec. 20, T.6 S., R.9 W., St. Stephens Meridian, Harrison County, Hdrologic Unit 03170009, at bridge on State Highway 15, 7.0 mi north of city limits of Biloxi. Drainage area is 92.4 mi ² .	1952-71+, 1972-99	03-14-99	<11.52	<2,600	09-29-98	26.06	20,300
Tchoutacabouffa River at D'Iberville, MS (02480599)	Lat 30°27'35", long 88°53'53", in SE1/4 sec. 5, T.7 S., R.9 W., St. Stephens Meridian, Harrison County, Hydrologic Unit 03170009, at State Highway 67, 0.5 mi north of I-10, at D'Iberville. Drainage area is 217 mi ² .	1998-99	09-29-98 03-14-99	16.56 4.96	48,000 10,700	09-29-98	16.56	48,000

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage partial-record stations

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1999 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
BILOXI RIVER BASIN								
Saucier Creek near Saucier, MS (02481045)	Lat 30°36'13", long 89°05'39", in SW1/4 sec. 16, T.5 S., R.11 W., St. Stephens Meridian, Harrison County, Hydrologic Unit 03170009, at bridge on county road, 3.2 mi southeast of Saucier. Drainage area is 36.9 mi ² .	1998-99	09-29-98 03-14-99	28.90 <15.65	f16,000 (†)	09-29-98	28.90	f16,000
Biloxi River near Lyman, MS (02481130)	Lat 30°29'17", long 89°01'59", in SE1/4 sec. 25, T.6 S., R.11 W., St. Stephens Meridian, Harrison County, Hydrologic Unit 03170009, on downstream side of right pier of bridge on county highway, 1.2 mi downstream from Little Biloxi River, 4.6 mi east of Lyman. Drainage area is 251 mi ² .	1965-99	03-14-99	15.76	4,930	05-10-95	23.95	36,800
WOLF RIVER BASIN								
Wolf River near Poplarville, MS (02481400)	Lat 30°50'50", long 89°28'11", in NW1/4 sec. 26, T.2 S., R.15 W., St. Stephens Meridian, Pearl River County, Hydrologic Unit 03170009, at bridge on State Highway 26, 3.6 mi east of Poplarville. Drainage area is 72.6 mi ² .	1952-71, 1998-99	01-07-98 03-14-99	30.54 28.10	7,080 3,640	12-10-61	32.87	12,800
JOURDAN RIVER BASIN								
Catahoula Creek near Picayune, MS (02481542)	Lat 30°31'00", long 89°32'01", in line between secs. 18 and 19, T.6 S., R.15 W., St. Stephens Meridian, Hancock County, Hydrologic Unit 03170009, at bridge on State Highway 43, 8.8 mi east of Picayune. Drainage area is 32.1 mi ² .	1998-99	01-07-98 03-14-99	16.55 12.02	(†) (†)	01-07-98	16.55	(†)
Hickory Creek near Kiln, MS (02481550)	Lat 30°30'22", long 89°29'26", in SE1/4 sec. 21, T.6 S., R. 15 W., St. Stephens Meridian, Hancock County, Hydrologic Unit 03170009, at bridge on State Highway 43, 8 mi north of Kiln. Drainage area is 60.9 mi ² .	1998-99	01-07-98 03-14-99	23.25 <16.22	11,700 <4,600	01-07-98	23.25	11,700
PEARL RIVER BASIN								
Lobutchka Creek at Renfro, MS (02482470)	Lat 32°51'45", long 89°26'30", in SE1/4 sec. 26, T.12 N., R.8 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, at bridge on State Highway 25, 0.5 mi east of Renfro. Drainage area is 248 mi ² .	1999	01-30-99	23.22	13,000	01-30-99	23.22	13,000
Yockanookany River trib- utary near McCool, MS (02483890)	Lat 33°10'06", long 89°25'29", in SW1/4 sec. 7, T.15 N., R.9 E., Choctaw Meridian, Attala County, Hydrologic Unit 03180001, at culvert on State Highway 12, 4.0 mi southwest of McCool. Drainage area is 0.34 mi ² .	1965-99	01-29-99	3.96	130	02-20-91	7.73	540
Coffee Bogue at Ludlow, MS (02484600)	Lat 32°34'24", long 89°43'48", in NE1/4 sec. 1, T.8 N., R.5 E., Choctaw Meridian, Scott County, Hydrologic Unit 03180002, at bridge on county road, 1.0 mi west of Ludlow. Drainage area is 77.0 mi ² .	1975-99	01-30-99	13.36	2,920	07-04-89	15.93	9,550
Red Cane Creek tributary near Pisgah, MS (02484750)	Lat 32°28'03", long 89°47'55", on line between NE1/4 sec. 8 and NW1/4 sec. 9, Choctaw Meridian, Rankin County, Hydrologic Unit 03180002, at circular culvert on Highway 43, 4.1 mi east of Pisgah. Drainage area is 0.10 mi ² .	1965-99	01-30-99	4.85	60	07-14-93	7.38	143
Fannegusha Creek near Sand Hill, MS (02484760)	Lat 32°30'20", long 89°48'45", in SW1/4 sec. 29, T.8 N., R.5 E., Choctaw Meridian, Rankin County, Hydrologic Unit 03180002, at bridge on county road, 3.9 mi east of Sand Hill. Drainage area is 52.3 mi ² .	1971-99	07-04-89 02-12-90 03-28-91 08-27-92 07-14-93 01-28-94 04-21-95 12-18-95 04-27-97 01-28-98 01-30-99	11.39 11.56 12.00 12.04 11.96 12.62 11.89 12.24 11.52 11.94 11.43	d3,210 d3,510 d4,320 d4,400 d4,250 d5,570 d4,120 d4,790 d3,440 d4,210 3,280	04-12-80	13.35	9,000

Crest-stage partial-record stations

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1999 maximum		Period of record maximum			
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
PEARL RIVER BASIN--Continued								
Purple Creek at Jackson, MS (02485650)	Lat 32°22'44", long 90°07'19", in NW 1/4 sec. 8, T.6 N., R.2 E., Choctaw Meridian, Hinds County, Hydrologic Road bridge in Jackson and 1.5 mi above mouth. Drainage area is 6.12 mi ² .	1952-99	06-14-99	11.36	1,410	04-29-53	99.92	2,890
Three Mile Creek at Jackson, MS (02486115)	Lat 32°16'22", long 90°13'00", in NW1/4 SE1/4 sec. 17, T.5 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, at old U.S. Highway 51 (Terry Road), 0.6 mi above Illinois Central Railroad. Drainage area is 1.05 mi ² .	1962-99	10-03-95 01-30-99	10.06 7.24	d805 378	08-30-74	31.52	1,720
Strong River near Puckett, MS (02487300)	Lat 32°03'49", long 89°44'49", in SE1/4 SE1/4 sec. 26, T.3 N., R.4 E., Choctaw Meridian, Rankin County, Hydrologic Unit 03180002, at State Highway 18, 2.0 mi southeast of Puckett. Drainage area is 248 mi ² .	1955-99	01-31-99	22.62	5,490	04-07-83	26.47	18,600
Dabbs Creek near Johns, MS (02487512)	Lat 32°09'24", long 89°53'23", NE1/4 SE1/4 sec. 28, T.4 N., R.4 E., Choctaw Meridian, Rankin County, Hydrologic Unit 03180002, at bridge on State Highway 18, 3.5 mi northwest of Johns. Drainage area is 7.33 mi ² .	1998-99	01-21-98 01-30-99	24.88 25.28	(+) (+)	01-30-99	25.28	(+)
Copiah Creek near Hazlehurst, MS (02487900)	Lat 31°53'27", long 90°17'07", in SW1/4 SE1/4 sec. 27, T.1 N., R.1 W., Choctaw Meridian, Copiah County, Hydrologic Unit 03180003, at bridge on State Highway 28, 6.2 mi east of Hazlehurst. Drainage area is 47.4 mi ² .	1948-65, 1966-68†, 1969-99	04-06-99	<10.60	<3,830	04-12-80	25.11	32,000
Silver Creek at Silver Creek, MS (2488600)	Lat 31°36'17", long 89°59'31", in NE1/4 sec. 3, T.7 N., R. 20 W., St Stephens Meridian, Lawrence County, Hydrologic Unit 03180003, at bridge on U.S. Highway 84, 0.3 mi east of Silver Creek. Drainage area is 123 mi ² .	1998-99	01-08-98 03-09-99	15.08 14.99	6,650 6,320	01-08-98	15.08	6,650
Elmers Draw near Columbia, MS, (02489030)	Lat 31°12'00", long 89°57'57", in SE1/4 NW1/4 sec. 26, T.3 N., R.12 E., Washington Meridian, Marion County, Hydrologic Unit 03180004, at U.S. Highway 98, 5.7 mi west of Columbia. Prior to Oct. 1, 1964, at datum 1.12 ft higher. Drainage area is 0.91 mi ² .	1955-99	03-14-99	(+)	(+)	04-06-83	16.22	1,620
MISSISSIPPI RIVER BASIN								
Wolf River near Springhill, MS (07030370)	Lat 34°56'48", long 89°11'39", in NE1/4 sec. 4, T.2 S., R.1 E., Chickasaw Meridian, Benton County, Hydrologic Unit 08010210, at bridge on U.S. Highway 72, 0.8 mi east of Scenic Route 5. Drainage area is 104 mi ² .	1999	03-13-99	11.77	(+)	03-13-99	11.77	(+)
YAZOO RIVER BASIN								
Hell Creek near New Albany, MS (07267000)	Lat 34°31'06", long 89°02'49", in SW1/4 sec. 36, T.6 S., R.2 E., Chickasaw Meridian, Union County, Hydrologic Unit 08030201, at bridge on U.S. Highway 78, 3.0 mi north- west of New Albany, and 4.5 mi above mouth. Drainage area is 27.3 mi ² .	1939-42†, 1952-99	03-14-99	9.48	4,130	12-26-82	13.50	8,420
Cypress Creek near Etta, MS (07268500)	Lat 34°26'32", long 89°17'15", in SE1/4 sec. 27, T.7 S., R.1 W., Chickasaw Meridian, Lafayette County, Hydrologic Unit 08030201, at bridge on State Highway 30, 4.5 mi south- west of Etta, and 5.0 mi above mouth. Prior to Oct. 1, 1964, at datum 10.00 ft higher. Drainage area is 28.5 mi ² .	1939-42†, 1952-99	03-14-99	12.15	3,500	05-19-83	19.94	11,300

Crest-stage partial-record stations

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1999 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
YAZOO RIVER BASIN--Continued								
North Tippah Creek near Ripley, MS (07269000)	Lat 34°44'00", long 89°01'24", in SW1/4 sec. 18, T.4 S., R.3 E., Chickasaw Meridian, Tippah County, Hydrologic Unit 08030201, at bridge on State Highway 4, 2.0 mi upstream from Tippah Creek, and 5.5 mi west of Ripley. Drainage area is 20.0 mi ² .	1939-42+, 1952-85, 1988-99	03-14-99	14.76	2,500	04-12-79	21.60	(t)
Long Creek at Courtland, MS (07275500)	Lat 34°13'42", long 89°56'12", near center of sec. 9, T.10 S., R.7 W., Chickasaw Meridian, Panola County, Hydrologic Unit 08030203, at bridge on U.S. Highway 51, 1.0 mi south of Courtland, 5.5 mi above mouth, and 6.0 mi south of Baatesville. Drainage area is 66.2 mi ² .	1940-43+, 1952-99	03-14-99	16.99	8,690	05-28-54	25.02	38,300
Cane Creek at Vardaman, MS (07281965)	Lat 33°52'31", long 89°11'27", in NE1/4 SE1/4 sec. 9, T.14 N., R.1 E., Chickasaw Meridian, Calhoun County, Hydrologic Unit 08030205, at bridge on State Highway 8, 0.8 mi west of Vardaman. Drainage area is 25.1 mi ² .	1999	01-23-99	27.57	(t)	01-23-99	27.57	(t)
Long Creek near Cascilla, MS (07285700)	Lat 33°51'41", long 89°59'09", in SW1/4 SW1/4 NE1/4 sec. 16, T.23 N., R.3 E., Choctaw Meridian, Tallahatchie County, Hydrologic Unit 08030205, at culvert on county highway, 1.1 mi east of Cascilla. Drainage area is 1.64 mi ² .	1965-99	12-02-91 02-16-93 02-16-95 04-23-96 05-27-98 04-06-99	11.92 7.80 9.95 10.30 9.46 10.64	d1,650 d 470 d 900 d1,150 d 530 1,350	05-08-84	12.70	1,860
Fannegusha Creek near Tchula, MS (07287350)	Lat 33°10'04", long 90°10'10", in NE1/4 NW1/4 sec. 14, T.15 N., R.1 E., Choctaw Meridian, Holmes County, Hydrologic Unit 08030206, on State Highway 12, east of Tchula. Drainage area is 103 mi ² .	1953-65e, 1968-99	05-06-99	21.53	9,230	04-26-70	24.54	23,000
Piney Creek near Benton, MS (07287474)	Lat 32°50'57", long 90°14'10", in NW1/4 sec. 31, T.12 N., R.1 E., Choctaw Meridian, Yazoo County, Hydrologic Unit 08030206, at bridge on State Highway 433, 2.1 mi northeast of Benton. Drainage area is 12.9 mi ² .	1999	01-29-99	9.21	3,030	01-29-99	9.21	3,030
BIG BLACK RIVER BASIN								
Hays Creek tributary No 1 near Vaiden, MS (07289265)	Lat 33°23'16", long 89°45'40", in SE1/4 SE1/4 SW1/4 sec. 27, T.18 N., R.5 E., Choctaw Meridian, Carroll County, Hydrologic Unit 08060201, at bridge on U.S. Highway 51, 3.9 mi north of Vaiden. Drainage area is 14.0 mi ² .	1960-74, 1976-99	05-19-83 12-03-83 10-22-84 03-19-86 03-18-87 11-17-87 07-02-89 06-03-90 12-22-90 12-02-91 04-09-93 03-27-94 04-23-95 04-21-96 05-03-97 05-28-98 05-06-99	26.47 26.67 26.37 23.33 24.67 22.94 26.31 25.80 26.33 26.14 25.83 25.37 25.78 25.58 25.89 25.16 25.73	d3,730 d3,830 d3,680 d2,370 d2,890 d2,240 d3,660 d3,410 d3,670 d3,570 d3,420 d3,210 d3,400 d3,310 d3,450 d3,110 3,380	12-22-90	26.33	d3,670
Long Creek at Sallis, MS (07289450)	Lat 33°00'56", long 89°45'55", in NE1/4 sec. 3, T.13 N., R.5 E., Choctaw Meridian, Attala County, Hydrologic Unit 08060201, at bridge on State Highway 429, 0.3 mi south of Sallis. Drainage area is 42.1 mi ² .	1999	01-29-99	21.63	2,480	01-29-99	21.63	2,480
Big Cypress Creek near Pickens, MS (07289504)	Lat 32°52'45", long 90°03'32", in SE1/4 sec. 14, T.12 N., R.2 E., Choctaw Meridian, Yazoo County, Hydrologic Unit 08060202, at bridge on state Highway 432, 5 mi west of Pickens. Drainage area is 58.4 mi ² .	1999	01-29-99	17.22	(t)	01-29-99	17.22	(t)
Tilda Bogue near Canton, MS (07289600)	Lat 32°39'18", long 90°00'53", in SW1/4 sec. 5, T.9 N., R.3 E., Choctaw Meridian, Madison County, Hydrologic Unit 08060202, at bridge on U.S. Highway 51, 3.0 mi north of Canton, and 3.5 mi above mouth. Drainage area is 24.4 mi ² .	1948-99	01-30-99	17.95	2,210	04-29-53	19.00	8,800

Crest-stage partial-record stations

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1999 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
BIG BLACK RIVER BASIN--Continued								
Walesheba Creek near Bentonina, MS (07289690)	Lat 32°41'06", long 90°18'19", in NW1/4 sec. 28, T.10 N., 1 W., Choctaw Meridian, Yazoo County, Hydrologic Unit 08060202, at bridge on State Highway 433, 2.8 mi southwest of Myrleville, and 5.6 mi east of Bentonina. Drainage area is 36.4 mi ² .	1966,	05-29-98	20.36	4,520	02-10-66	22.42	10,500
		1998-99	01-29-99	19.57	3,120			
Clear Creek near Bovina, MS (07290005)	Lat 32°21'45", long 90°43'40", in SW1/4 sec. 17, T.16 N., R.5 E., Washington Meridian, Warren County, Hydrologic Unit 08060202, on county road, 1.0 mi northeast of Bovina. Dainage area is 32.0 mi ² .	1953-99	12-22-90	27.36	d12,400	04-13-69	30.03	21,000
			08-28-92	22.28	d 4,290			
			07-14-93	22.41	d 4,380			
			01-27-94	26.43	d 9,980			
			04-21-95	28.31	d15,200			
			12-18-95	21.98	d 4,090			
			01-30-99	21.23	3,690			
BAYOU PIERRE BASIN								
Bayou Pierre near Glancy, MS (07290250)	Lat 31°49'40", long 90°28'53", in NE1/4 sec. 22, T.10 N., R. 7 E., Washington Meridian, Copolah County, Hydrologic Unit 08060203, at bridge on State Highway 28, 1.2 mi northeast of Glancy. Drainage area is 122 mi ² .	1998-99	01-07-98	17.29	9,840	01-07-98	17.29	9,840
			01-30-99	16.70	5,520			
Tallahalla Creek at Utica, MS (07290549.95)	Lat 32°04'54", long 90°35'53", in SW1/4 sec. 22, T.3 N., R. 4 W., Choctaw Meridian, Hinds County, Hydrologic Unit 08060203, at bridge on State Highway 27, 2.5 mi southeast of Utica. Drainage area is 72.0 mi ² .	1998-99	01-22-98	22.19	7,610	01-22-98	22.19	7,610
			01-30-99	20.19	5,940			
Clarks Creek near Pattison, MS (07290690)	Lat 31°53'36", long 90°50'31", in irregular sec. 35, T.11 N., R.4 E., Washington Meridian, Claiborne County, Hydrologic Unit 08060203, at bridge on county highway, 1.3 mi above mouth, and 2.5 mi east of Pattison. Drainage area is 75.0 mi ² .	1961-62+, 1963-99	01-30-99	<14.63	<6,110	04-12-80	27.90	31,000
COLES CREEK BASIN								
Little Creek near Fayette, MS (07290830)	Lat 31°40'30", long 91°04'10", in irregular sec. 24, T.8 N., R.1 E., Washington Meridian, Jefferson County, Hydrologic Unit 08060204, at culvert on State Highway 33, 2.0 mi south of Fayette. Drainage area is 1.71 mi ² .	1967-99	04-23-95	9.20	d620	04-12-74	15.45	1,800
			01-30-99	9.74	790			
North Fork Coles Creek near Church Hill, MS (07290855)	Lat 31°46'45", long 91°10'00", in SW1/4 SE1/4 sec. 4, T.9 N., R.1 W., Washington Meridian, Jefferson County, Hydrologic Unit 08060204, at bridge on county road, 1.7 mi upstream of mouth and 0.6 mi northwest of Natchez Trace Parkway. Drainage area is 115 mi ² .	1999	01-30-99	34.25	9,250	01-30-99	34.25	9,250
South Fork Coles Creek near Church Hill, MS (07290860)	Lat 31°44'53", long 91°10'44", in NE1/4 NW1/4 sec. 32, T.9 N., R.1 W., Washington Meridian, Jefferson County, Hydrologic Unit 08060204, at bridge on State Highway 553, 2.5 mi upstream of mouth and 0.3 mi west of Natchez Trace Parkway. Drainage area is 108 mi ² .	1999	01-30-99	25.36	14,800	01-30-99	25.36	14,800
HOMOCHITTO RIVER BASIN								
McCall Creek near Lucien, MS (07291250)	Lat 31°30'54", long 90°38'53", in SW1/4 sec. 6, T.6 N., R.6 E., Washington Meridian, Franklin County, Hydrologic Unit 08060205, at U.S. Highway 84, 0.8 mi east of Lucien. Drainage area is 60.8 mi ² .	1953, 1955-99	01-30-99	(b)	(t)	04-13-74	92.70	23,000

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage partial-record stations

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1999 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
THOMPSON CREEK BASIN								
Moore's Branch near Woodville, MS (07373550)	Lat 31°05'15", long 91°14'31", in SE1/4 SW1/4 sec. 32, T.2 N., R.1 W., Washington Meridian, Wilkinson County, Hydrologic Unit 08070201, at State Highway 24, 3.3 mi east of Woodville. Prior to Oct. 1, 1964, at datum 0.88 ft lower. Drainage area is 0.21 mi ² .	1955-99	03-25-88	3.63	d126	03-24-73	9.90	455
			06-27-89	5.81	d257			
			08-11-91	3.85	d138			
			03-05-92	5.31	d224			
			01-20-93	7.06	d345			
			01-27-94	7.31	d360			
			04-23-95	5.29	d223			
			12-18-95	5.67	d248			
			01-30-99	5.76	254			
MISSISSIPPI RIVER DELTA BASIN								
East Fork Amite River near Peoria, MS (07376680)	Lat 31°05'55", long 90°43'10", in NE1/4 sec. 32, T.2 N., R.5 E., Washington Meridian, Amite County, Hydrologic Unit 08070202, at bridge on State Highway 584, 6.7 mi southeast of Liberty and about 5 mi south of Peoria. Drainage area is 179 mi ² .	1990,	01-07-98	18.18	16,000	01-25-90	a21.10	f34,000
		1998-99	03-14-99	16.80	9,500			

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately.

b High-water mark was not determined.

c Gage heights and discharge measurements in files of Corps of Engineers.

d Revised.

e Published at site near Howard, 3 mi downstream.

f Estimated.

Special study and miscellaneous sites

Discharge measurements in the following table were made at special study and miscellaneous sites throughout the State.

Discharge measurements made at special study and miscellaneous sites during water year 1999

Discharge Measurements Made at Special Study and Miscellaneous Sites during Water Year 1999						
Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Discharge Date	(ft ³ /s)
PEARL RIVER BASIN						
02485735	Gulf of Mexico	Lat 32°19'53", long 90°07'45"	3,134	1969,	02-02-99	30,800
Pearl River		in SE1/4 NE1/4 sec. 30. T.6 N.,		1976,		
at Hwy 25 at		R.2 E., Choctaw Meridian,		1979-80,		
Jackson, MS		Hinds County, Hydrologic Unit		1985,		
		03180002, on State Highway 25		1991,		
		at Jackson.		1994,		
				1997,		
				1999		
HOMOCHITTO RIVER BASIN						
07290950	Mississippi River	Lat 31°40'12", long 90°43'07",	79.2	1973,	07-28-99	12.6
Homochitto		NE1/4SW1/4 sec.16, T.8 N., R.5 E.,		1999		
River near		Washington Meridian, Lincoln				
Caseyville,MS		County, Hydrologic Unit 08060205,				
		on State Highway 550, 4.0 mi west				
		of Caseyville, MS.				

WATER-QUALITY DATA FOR PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Water-quality partial-record stations and miscellaneous sites are locations where chemical-quality, biological, and (or) sediment data are collected once only, intermittently, or systematically but on limited frequency over a period of years for use in hydrologic analyses.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MOBILE RIVER BASIN

02437000 TOMBIGBEE RIVER NEAR AMORY, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDE D (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE D (T/DAY) (80155)
JAN 07...	1350	3180	71	610
FEB 25...	1345	2450	49	324
APR 08...	1615	3850	88	915

02437500 TOMBIGBEE RIVER AT ABERDEEN, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDE D (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE D (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JAN 07...	0730	6320	51	870	--
FEB 24...	1510	3520	46	437	--
APR 07...	1345	6650	82	1470	--
MAY 06...	1130	24400	386	25400	--
06...	1400	19200	418	21700	--
06...	1600	18700	339	17100	98
07...	0700	11200	145	4380	--
07...	1115	18200	157	7710	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)
MAY 06...	1600	15	36	53	78	94	98	99	100

02441400 TOMBIGBEE RIVER NEAR COLUMBUS, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDE D (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE D (T/DAY) (80155)
JAN 06...	1045	12200	53	1750
FEB 23...	1330	4210	52	591
APR 07...	0730	15400	72	2990

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

YAZOO RIVER BASIN

330743090580300 STEELE BAYOU [WEIR E] AT YAZOO NATIONAL WILDLIFE REFUGE, MS

DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
JUN					
28...	1100	5.5	6.4	414	29.0

DATE	TIME	ALDRIN, BIOTA, WH ORG (UG/KG) (49353)	ALPHA- BHC, BIOTA, WH ORG (UG/KG) (49366)	BENZENE HEXA- CHLORO- BIOTA, WH ORG (UG/KG) (49367)	BETA- BHC, BIOTA, WH ORG (UG/KG) (49365)	CIS- CHLOR- DANE, BIOTA, WH ORG (UG/KG) (49380)	CIS- NONA- CHLOR, BIOTA, WH ORG (UG/KG) (49359)	DCPA, BIOTA, WH ORG (UG/KG) (49378)	DELTA- BHC, BIOTA, WH ORG (UG/KG) (49364)	DIEL- DRIN, BIOTA, WH ORG (UG/KG) (49371)
JUN										
28...	1200	<5.00	<5.00	<5.00	<5.00	<5.20	<5.00	<5.00	<5.00	15.0
28...	1230	<5.00	<5.00	<5.00	<5.00	E8.30	<5.00	<5.00	<5.00	24.0
28...	1300	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	7.10
28...	1330	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	E3.60
28...	1400	<5.00	<5.00	<5.00	<5.00	E4.40	<5.00	<5.00	<5.00	7.20

DATE	TIME	ENDRIN, BIOTA, WH ORG (UG/KG) (49370)	HEPTA- CHLOR EPOXIDE BIOTA, WH ORG (UG/KG) (49368)	HEPTA- CHLOR, BIOTA, WH ORG (UG/KG) (49369)	LINDANE BIOTA, WH ORG (UG/KG) (49363)	LIPIDS, BIOTA, WH ORG PERCENT (49289)	METHOXY CHLOR, O,P'-, BIOTA, WH ORG (UG/KG) (49362)	METHOXY CHLOR, P,P'-, BIOTA, WH ORG (UG/KG) (49361)	MIREX, BIOTA, WH ORG (UG/KG) (49360)	O,P'- DDD, BIOTA, WH ORG (UG/KG) (49374)	O,P'- DDE, BIOTA, WH ORG (UG/KG) (49373)
JUN											
28...	<5.00	<5.00	<5.00	<5.00	4.20	<5.00	<5.00	<5.00	<5.00	<34.0	<5.00
28...	<5.00	<5.00	<5.00	<5.00	1.50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
28...	<5.00	<5.00	<5.00	<5.00	2.60	<5.00	<5.00	<5.00	<5.00	<11.0	<5.00
28...	<5.00	<5.00	<5.00	<5.00	1.50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
28...	<5.00	<5.00	<5.00	<5.00	1.50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00

DATE	TIME	O,P'- DDT, BIOTA, WH ORG (UG/KG) (49377)	OXY- CHLOR DANE, BIOTA, WH ORG (UG/KG) (49357)	P,P'- DDD, BIOTA, WH ORG (UG/KG) (49375)	P,P'- DDE, BIOTA, WH ORG (UG/KG) (49372)	P,P'- DDT, BIOTA, WH ORG (UG/KG) (49376)	PCB, BIOTA, WH ORG (UG/KG) (49354)	PENTA CHLORO ANISOLE BIOTA, WH ORG (UG/KG) (49356)	TOXA- PHENE, BIOTA, WH ORG (UG/KG) (49355)	TRANS- CHLOR- DANE, BIOTA, WH ORG (UG/KG) (49379)	TRANS- NONA- CHLOR, BIOTA, WH ORG (UG/KG) (49358)
JUN											
28...	<44.0	<5.00	430	2300	45.0	52.0	<5.00	<200	<5.00	<8.80	
28...	<5.00	<5.00	340	1500	70.0	140	E4.70	<200	<5.00	E11.0	
28...	<21.0	<5.00	100	560	15.0	<50.0	<5.00	<200	<5.00	<5.00	
28...	<5.00	<5.00	52.0	270	22.0	<50.0	<5.00	<200	<5.00	<5.00	
28...	<5.00	<5.00	210	1300	130	50.0	<5.00	<200	<5.00	E7.90	

Short-term water-quality studies were conducted on selected stream reaches to collect water-quality data for use in hydrologic analyses.

WATER QUALITY DATA, WATER YEARS OCTOBER 1997 TO SEPTEMBER 1999

HOLLIS CREEK STUDY

02447305 JONES CREEK NEAR WINSTON, MS

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	SULFIDE TOTAL (MG/L AS S) (00745)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
JUL 1998												
22...	1100	1.2	64	6.8	27.0	13	760	7.7	1.2	K200	<1.0	11
28...	1100	--	--	--	--	--	--	--	.7	230	--	--
SEP												
09...	1130	.15	90	6.8	25.5	33	757	2.4	2.0	<2	<1.0	11
OCT												
14...	1100	.12	106	6.8	18.0	22	760	4.1	1.5	<2	<1.0	14
NOV												
18...	1130	.58	51	7.0	13.5	8.7	760	9.3	1.4	170	<1.0	8.2
DEC												
16...	1135	1.4	69	6.9	7.0	7.6	763	11.5	1.6	4100	<1.0	19
JAN 1999												
13...	1215	11	114	6.8	11.0	3.8	757	10.7	--	66	<1.0	39
MAR												
03...	1210	120	76	6.6	12.0	23	760	10.5	2.1	1800	<1.0	26
31...	1100	13	112	6.8	13.5	2.4	760	9.9	.9	360	<1.0	37
APR												
21...	1115	3.2	102	7.0	20.5	2.1	763	9.4	.8	210	<1.0	30
MAY												
11...	1000	1.6	87	6.7	20.5	8.1	763	7.9	1.0	330	<1.0	21
JUN												
22...	0945	.48	80	6.5	23.0	16	767	7.1	1.2	110	<1.0	15
25...	1845	15	40	6.5	24.0	11	760	7.3	1.8	4000	<1.0	6.8
DATE		RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED TOTAL (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
JUL 1998												
22...	15	<.010	.070	.020	.31	.060	.050	.020	4.3	52	.17	
28...	--	--	--	--	--	--	--	--	--	--	--	
SEP												
09...	48	.010	<.020	.040	.45	.070	.020	<.010	4.3	75	.03	
OCT												
14...	27	.010	<.020	<.010	.39	.040	<.020	<.010	2.7	53	.02	
NOV												
18...	10	<.010	<.020	.010	<.20	.050	.030	<.010	3.0	24	.04	
DEC												
16...	8	<.010	.090	.020	<.20	.020	<.020	.020	3.3	26	.10	
JAN 1999												
13...	6	E.010	E.030	E.020	<.20	<.020	<.020	<.010	1.1	21	.62	
MAR												
03...	160	E.010	.030	.040	.46	.110	.020	<.010	6.9	214	.69	
31...	3	<.010	<.020	.020	<.20	.020	<.020	.010	1.6	26	.91	
APR												
21...	6	<.010	<.020	.020	<.20	.040	.030	.020	1.8	28	.24	
MAY												
11...	11	<.010	.030	.050	.22	.040	<.020	.020	3.0	26	.11	
JUN												
22...	32	<.010	.060	.050	.33	.040	.020	<.010	4.1	56	.07	
25...	110	E.010	.090	.050	.77	.050	<.020	.010	3.2	115	4.7	

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES
WATER QUALITY DATA, WATER YEARS OCTOBER 1997 TO SEPTEMBER 1999

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HOLLIS CREEK STUDY--Continued

02447393 HOLLIS CREEK AT STARKVILLE, MS

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	SULFIDE TOTAL (MG/L AS S) (00745)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
JUL 1998												
22...	0800	.06	480	7.5	26.5	<1.0	760	4.5	2.1	K200	<1.0	22
28...	0955	--	--	--	--	--	--	--	1.5	<2	--	--
SEP												
09...	0800	.02	394	7.8	21.0	6.5	757	4.9	2.5	<2	<1.0	17
OCT												
14...	0730	.05	398	7.4	16.5	2.5	760	7.3	1.5	<2	<1.0	15
NOV												
18...	0800	.10	480	7.3	12.0	2.2	760	7.3	1.3	640	<1.0	35
DEC												
16...	0815	.13	520	7.3	6.0	1.6	763	10.0	1.3	420	<1.0	43
JAN 1999												
13...	0800	.31	520	7.4	10.5	2.6	757	9.2	--	160	<1.0	52
MAR												
03...	0800	2.2	203	7.1	10.5	32	760	10.2	3.2	15000	<1.0	16
31...	0800	1.7	277	7.4	13.5	4.4	760	8.4	4.0	5200	<1.0	20
APR												
21...	0745	.10	590	7.5	17.0	1.2	763	6.4	1.3	1100	<1.0	57
MAY												
11...	1315	.11	525	7.7	26.0	.86	763	12.5	1.9	720	<1.0	42
JUN												
22...	1250	.03	350	7.9	33.0	.65	767	12.2	1.6	1000	<1.0	12
25...	2100	.57	159	7.2	27.0	3.3	760	4.7	4.7	100000	<1.0	10
26...	0815	19	123	7.4	25.0	7.2	762	6.8	5.8	180000	<1.0	8.7
26...	1330	1.1	150	7.3	26.5	3.6	762	6.2	4.0	79000	<1.0	9.4

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
JUL 1998											
22...	4	<.010	<.020	.030	.36	.060	.040	.020	4.7	73	.01
28...	--	--	--	--	--	--	--	--	--	--	--
SEP											
09...	12	<.010	<.020	.060	.58	.230	.160	.170	7.0	53	.00
OCT											
14...	3	<.010	<.020	<.010	.33	.040	<.020	.020	1.9	56	.01
NOV											
18...	2	.014	.170	.070	.29	.050	.030	<.010	2.6	74	.02
DEC											
16...	2	.019	.560	.130	.40	.040	.030	.020	2.5	56	.05
JAN 1999											
13...	5	E.010	E.560	E.080	.38	.020	<.020	<.010	2.1	68	.02
MAR											
03...	48	E.010	.400	.080	.87	.210	.100	.120	10	93	.55
31...	23	<.010	.650	.060	.48	.110	.040	.040	6.8	50	.23
APR											
21...	4	<.010	.060	.050	.32	.040	.030	.020	3.4	93	.03
MAY											
11...	3	<.010	.030	.040	.40	.030	<.020	.020	3.4	71	.02
JUN											
22...	2	<.010	<.020	.050	.29	.030	<.020	<.010	5.4	40	.00
25...	23	E.010	.240	.050	.74	.140	.070	.060	10	72	.11
26...	110	E.010	.190	.130	1.0	.300	.080	.080	7.6	202	10
26...	20	<.010	.300	.050	.59	.150	.080	.080	8.6	41	.12

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

WATER QUALITY DATA, WATER YEARS OCTOBER 1997 TO SEPTEMBER 1999

HOLLIS CREEK STUDY--Continued

02447394 HOLLIS CREEK NEAR STARKVILLE, MS

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)
		(00061)	(00095)	(00400)	(00010)	(00076)	(00025)	(00300)	(00310)	(31625)	(00745)	(00945)
JUL 1998												
22...	0830	3.7	430	7.4	27.0	<1.0	760	5.7	1.7	420	<1.0	19
28...	1005	--	--	--	--	--	--	--	1.1	K1200	--	--
SEP												
09...	0845	3.7	400	7.3	24.5	2.0	757	6.1	1.1	<2	<1.0	16
OCT												
14...	0815	3.1	419	7.3	20.5	1.9	760	7.1	2.0	K4	<1.0	17
NOV												
18...	0820	3.0	435	7.1	18.0	1.2	760	6.4	4.2	57000	<1.0	25
DEC												
16...	0845	5.1	448	7.5	13.5	3.9	763	7.2	2.9	630	<1.0	31
JAN 1999												
13...	0845	7.4	441	7.4	14.0	1.2	757	8.1	--	260	<1.0	35
MAR												
03...	0840	26	182	7.3	13.0	20	760	9.3	7.0	K1200000	<1.0	13
31...	0845	13	455	7.4	16.0	.91	760	7.3	6.6	K1300	<1.0	29
APR												
21...	0830	3.4	451	7.4	19.5	1.9	763	6.3	3.1	780	<1.0	28
MAY												
11...	1230	7.9	466	7.4	23.0	.83	763	6.2	2.3	42000	E1.0	28
JUN												
22...	1205	6.6	438	7.4	24.5	.96	767	6.5	1.1	K1500	<1.0	21
25...	2025	12	328	7.3	26.0	2.6	760	6.5	2.2	13000	<1.0	15
26...	0855	4.0	326	7.3	25.0	1.6	762	5.6	1.6	3800	<1.0	17
26...	1410	14	304	7.2	25.5	3.1	762	5.5	3.3	2600	<1.0	15
DATE		RESIDUE TOTAL AT 105 DEG. C, SUS-PENDE (MG/L) (00530)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI-MENT, SUS-PENDE (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDE (T/DAY) (80155)
JUL 1998												
22...	5	.070	13.0	.130	.94	1.90	1.80	1.80	3.8	53	.53	
28...	--	--	--	--	--	--	--	--	--	--	--	
SEP												
09...	6	.042	15.0	.080	.74	2.10	2.00	1.90	2.7	71	.71	
OCT												
14...	7	.080	13.0	.150	1.1	2.20	2.10	2.00	2.4	70	.59	
NOV												
18...	8	.950	15.0	1.50	2.4	2.30	2.20	2.10	4.0	45	.36	
DEC												
16...	6	.170	6.30	2.40	3.4	1.40	1.30	1.20	5.2	53	.73	
JAN 1999												
13...	11	E.028	7.70	E.760	1.3	1.30	1.20	1.10	3.6	51	1.0	
MAR												
03...	47	E.032	1.70	.420	1.7	.570	.330	.340	12	78	5.5	
31...	20	E.040	7.30	1.00	2.6	2.00	1.60	1.60	5.4	70	2.5	
APR												
21...	17	E.080	13.0	.390	1.3	2.00	1.90	1.60	5.6	65	.60	
MAY												
11...	7	.360	10.0	.200	.93	2.10	2.10	2.00	3.9	53	1.1	
JUN												
22...	4	<.010	14.0	.110	.58	2.30	2.30	2.20	3.0	45	.80	
25...	30	E.010	8.20	.130	1.0	1.60	1.60	1.40	3.5	63	2.0	
26...	13	E.020	7.40	.180	.82	1.50	1.50	1.30	3.8	52	.56	
26...	19	<.010	3.90	1.90	2.6	1.50	1.40	1.10	8.2	54	2.0	

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES
WATER QUALITY DATA, WATER YEARS OCTOBER 1997 TO SEPTEMBER 1999

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HOLLIS CREEK STUDY--Continued

02447397 HOLLIS CREEK NEAR OKTOC, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	SULFIDE TOTAL (MG/L AS S) (00745)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
JUL 1998												
22...	0930	6.3	408	8.1	26.5	<1.0	760	8.8	1.4	K69	<1.0	21
28...	1025	6.6	--	--	--	--	--	--	1.1	120	--	--
SEP												
09...	0930	6.6	400	7.8	23.0	2.4	757	8.4	1.1	<2	<1.0	15
OCT												
14...	0900	6.5	367	7.7	16.5	1.9	760	9.8	1.3	<2	<1.0	18
NOV												
18...	0930	7.2	365	7.6	14.0	.85	760	10.3	1.7	44	<1.0	29
DEC												
16...	0935	8.0	382	7.8	8.0	2.2	763	10.8	3.8	330	<1.0	32
JAN 1999												
13...	0940	13	345	7.8	11.0	4.7	757	10.6	--	170	<1.0	30
MAR												
03...	0950	269	128	7.3	12.0	25	760	9.3	4.9	570000	<1.0	9.6
31...	0940	14	388	7.8	14.0	1.1	760	9.7	2.3	470	<1.0	27
APR												
21...	0930	7.9	402	7.9	18.5	.96	763	9.4	1.7	290	<1.0	27
MAY												
11...	1115	6.8	417	8.3	21.5	1.8	763	11.0	1.9	120	<1.0	27
JUN												
22...	1045	4.7	442	8.5	24.0	2.6	767	11.7	1.4	76	<1.0	19
25...	1945	28	385	7.5	25.0	2.7	760	7.2	2.3	K710	<1.0	17
26...	0940	10	293	7.6	24.5	6.2	762	7.3	1.8	K690	<1.0	7.0
26...	1450	7.7	298	8.3	26.5	5.5	762	9.6	1.7	K550	<1.0	8.5

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
JUL 1998											
22...	4	.039	10.0	.030	.84	1.50	1.50	1.50	4.7	56	.95
28...	--	--	--	--	--	--	--	--	--	--	--
SEP											
09...	3	.050	13.0	.040	.78	2.10	2.00	1.90	3.1	62	1.1
OCT											
14...	3	.044	16.0	.020	.68	2.40	2.30	2.30	3.0	57	1.0
NOV											
18...	1	.099	12.0	.090	.78	1.50	1.40	1.40	3.6	46	.89
DEC											
16...	6	.210	3.20	4.20	4.1	.970	.840	.810	5.5	50	1.1
JAN 1999											
13...	8	.020	E5.00	.450	1.1	.780	.720	.690	3.7	48	1.7
MAR											
03...	180	E.010	.580	.290	1.6	.460	.230	.110	12	252	183
31...	6	E.020	6.60	.090	.80	1.00	.940	.900	4.4	55	2.1
APR											
21...	5	E.040	9.00	.060	.98	1.10	1.10	1.00	5.3	54	1.2
MAY											
11...	4	<.010	9.90	.050	.84	1.40	1.40	1.10	4.1	46	.84
JUN											
22...	5	<.010	8.70	.070	.85	1.60	1.60	1.50	4.1	57	.72
25...	57	E.010	8.30	.100	1.1	1.80	1.70	1.40	5.6	97	7.3
26...	11	E.010	2.00	.120	.62	.630	.500	.460	5.8	50	1.4
26...	12	<.010	2.20	.100	.54	.640	.530	.500	5.5	43	.67

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES
SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

MILL CREEK STUDY

02485570 MILL CREEK AT COON HUNTERS ROAD NEAR BRANDON, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JAN					
06...	1600	3.5	.85	90	--
06...	1630	7.7	2.3	111	--
06...	1755	25	27	393	--
06...	1815	26	25	361	87
06...	2025	53	66	464	85
06...	2210	108	175	601	78
06...	2340	175	297	628	77
07...	0105	198	312	584	--
07...	0315	181	202	414	--
07...	0430	166	182	405	--
07...	0540	118	128	403	--
07...	0720	64	73	420	--
07...	0835	46	50	404	--
07...	1045	32	36	413	--
FEB					
01...	1505	10	5.6	209	--
01...	1550	19	17	327	--
01...	1630	24	26	401	--
01...	1715	32	34	388	--
01...	1805	36	31	315	--
01...	1850	40	35	326	--
01...	1955	42	36	316	--
01...	2055	37	22	225	--
01...	2155	35	18	193	--
01...	2250	36	20	209	--
01...	2350	32	14	167	--
02...	0655	15	3.5	87	--
10...	1820	1.6	.22	52	--
10...	1945	1.2	.19	59	--
10...	2020	2.6	5.0	708	--
10...	2100	64	320	1850	--
10...	2155	157	517	1220	--
10...	2250	206	479	861	--
10...	2315	198	292	546	--
10...	2345	176	229	482	--
11...	0050	99	126	470	--
11...	0250	39	61	581	--
11...	0635	19	10	203	--
11...	1045	15	4.6	114	--
MAR					
16...	1645	1.0	.11	42	--
16...	1700	1.0	.11	42	--
16...	1710	1.0	.11	42	--
16...	1900	1.0	.12	44	--
16...	2000	1.0	.13	49	--
16...	2050	1.6	.22	51	--
16...	2135	3.8	1.9	185	--
16...	2215	40	172	1590	--
16...	2305	105	269	948	--
17...	0001	185	498	996	70
17...	0100	228	516	838	57
17...	0205	226	361	592	--
17...	0255	180	208	429	--
17...	0645	61	82	497	--
17...	0810	25	33	488	--
17...	1120	19	13	248	--

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES
SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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MILL CREEK STUDY--Continued

02485574 MILL CREEK AT STATE HIGHWAY 25 NEAR LUCKNEY, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN (70331)
JAN					
06...	1635	55	11	75	--
06...	1655	68	36	194	--
06...	1840	138	192	515	98
06...	2055	362	798	816	--
06...	2245	688	1700	913	82
07...	0001	817	2230	1010	71
07...	0130	873	2430	1030	--
07...	0335	945	2650	1040	--
07...	0500	863	1750	750	--
07...	0600	793	1830	854	--
07...	0815	532	773	538	--
07...	1020	240	260	401	--
07...	1200	150	126	310	--
FEB					
01...	1515	63	23	135	--
01...	1605	82	57	256	--
01...	1645	96	87	335	--
01...	1735	134	176	486	--
01...	1820	146	205	521	--
01...	1915	180	255	524	--
01...	2015	188	254	501	--
01...	2120	170	222	483	--
01...	2150	195	241	458	--
01...	2210	188	235	462	--
01...	2305	164	156	353	--
02...	0010	154	119	286	--
02...	0200	104	51	180	--
02...	0710	75	22	111	--
10...	1835	2.0	.33	61	--
10...	2005	2.9	9.6	1230	--
10...	2035	125	159	470	--
10...	2120	350	2080	2200	--
10...	2215	462	1500	1200	--
10...	2310	546	1770	1200	82
11...	0010	630	2530	1490	82
11...	0115	604	1880	1150	--
11...	0315	405	701	641	--
11...	0615	121	85	261	--
11...	1130	75	29	142	--
MAR					
16...	1715	4.6	.55	44	--
16...	1920	8.7	.99	42	--
16...	2015	4.0	.65	60	--
16...	2110	13	2.1	59	--
16...	2150	62	181	1080	--
16...	2210	102	245	891	--
16...	2325	338	1130	1240	--
17...	0015	431	990	851	--
17...	0125	945	4690	1840	--
17...	0215	939	3170	1250	--
17...	0310	876	2960	1250	--
17...	0700	357	467	485	--
17...	0820	174	158	337	--
17...	1100	116	67	214	--

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES
SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

MILL CREEK STUDY--Continued

02485578 MILL CREEK TRIBUTARY NO 1 NEAR LUCKNEY, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JAN					
06...	1500	5.2	2.0	146	--
06...	1625	10	17	633	98
06...	1645	16	39	902	94
06...	1740	26	169	2410	97
06...	1910	42	252	2220	86
06...	2115	114	523	1700	59
06...	2310	128	802	2320	62
07...	0015	125	469	1390	--
07...	0150	112	327	1080	--
07...	0350	77	212	1020	--
07...	0515	50	86	638	--
07...	0610	40	61	563	--
07...	0750	28	29	388	--
07...	0930	19	16	310	--
07...	1100	10	6.1	227	--
FEB					
01...	1530	12	21	642	--
01...	1600	13	21	600	--
01...	1655	26	80	1140	--
01...	1740	28	129	1700	75
01...	1830	31	102	1220	40
01...	1925	27	66	912	--
01...	1945	26	48	677	--
01...	2020	22	32	542	--
01...	2125	18	23	470	--
01...	2205	30	66	820	--
01...	2220	26	57	811	--
01...	2315	18	24	499	--
02...	0020	14	19	510	--
02...	0725	3.0	1.1	137	--
10...	1845	1.0	.20	73	--
10...	1945	1.0	9.0	3320	--
10...	2000	3.0	4.3	535	--
10...	2015	40	259	2400	--
10...	2050	70	1240	6580	69
10...	2130	51	365	2650	70
10...	2230	80	410	1900	--
10...	2330	58	158	1010	71
10...	2350	52	119	850	--
11...	0010	46	85	687	--
11...	0130	36	41	422	--
11...	0345	12	9.5	293	--
11...	0705	6.0	3.5	217	--
11...	1010	4.0	1.7	155	--
11...	1150	4.0	1.4	134	--
MAR					
16...	1655	.20	.02	37	--
16...	1900	.30	.05	58	--
16...	2000	.30	.36	450	--
16...	2010	.70	.18	95	--
16...	2100	1.0	.45	168	--
16...	2130	3.0	1.7	214	--
16...	2155	28	76	1010	--
16...	2235	31	222	2650	--
16...	2335	41	225	2030	--
17...	0025	64	449	2600	56
17...	0100	125	1760	5200	76
17...	0145	125	820	2430	63
17...	0200	105	621	2190	--
17...	0230	75	294	1450	--
17...	0325	40	89	820	--
17...	0715	11	11	385	--
17...	0840	6.0	4.6	285	--
17...	1045	4.0	1.8	169	--

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES
SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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MILL CREEK STUDY--Continued

02485590 MILL CREEK AT SPILLWAY ROAD NEAR LUCKNEY, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN (70331)
JAN					
06...	1445	54	12	80	--
06...	1645	96	45	175	--
06...	1845	238	316	491	97
06...	1915	284	459	598	--
06...	2015	390	813	772	--
06...	2115	526	1450	1020	--
06...	2215	708	2330	1220	--
06...	2245	803	2930	1350	92
06...	2315	869	3430	1460	--
06...	2330	905	3690	1510	63
07...	0015	963	4000	1540	--
07...	0045	979	3990	1510	80
07...	0115	993	3860	1440	--
07...	0145	998	3770	1400	--
07...	0215	1000	3940	1460	--
07...	0245	1010	3820	1400	--
07...	0315	1010	3850	1410	--
07...	0345	1010	3950	1450	--
07...	0400	1010	3950	1450	54
07...	0415	1000	3830	1420	--
07...	0445	984	3400	1280	--
07...	0515	965	3180	1220	--
07...	0545	932	2790	1110	--
07...	0615	881	2430	1020	--
07...	0715	723	1500	770	--
07...	0730	683	1380	748	76
07...	0945	284	345	450	--
07...	1200	99	56	209	--
FEB					
01...	1530	86	12	51	--
01...	1600	107	19	67	--
01...	1630	141	29	75	--
01...	1700	179	35	73	--
01...	1730	208	62	110	--
01...	1800	240	125	193	--
01...	1830	252	248	364	98
01...	1845	259	351	502	99
01...	1900	265	408	570	98
01...	1930	274	368	497	--
01...	2000	274	371	501	--
01...	2030	273	371	503	--
01...	2100	270	319	438	--
01...	2130	271	293	401	--
01...	2200	270	303	416	--
01...	2230	266	282	392	--
01...	2300	262	267	378	--
01...	2330	259	243	347	98
01...	2345	253	224	328	100
01...	2400	250	225	333	98
02...	0030	235	174	275	--
02...	0100	220	156	263	--
02...	0130	203	128	234	--
02...	0200	188	115	227	--
02...	0230	173	94	201	--
02...	0300	161	84	193	--
02...	0730	88	27	112	--
10...	1930	35	4.3	45	--
10...	2030	183	40	81	--
10...	2115	419	1370	1210	--
10...	2145	514	1900	1370	--
10...	2215	579	2670	1710	96
10...	2230	611	2950	1790	86
10...	2245	631	3190	1870	--
10...	2315	666	2500	1390	94
10...	2345	699	2150	1140	92
11...	0015	722	2240	1150	92
11...	0045	703	2640	1390	92
11...	0115	649	2470	1410	92
11...	0145	572	1920	1240	91
11...	0215	496	1390	1040	84
11...	0245	427	1030	890	--
11...	0315	373	762	757	--
11...	0345	330	552	620	--
11...	0400	306	461	558	--
11...	0415	287	400	516	--
11...	0445	241	290	445	--
11...	0515	211	196	344	--
11...	0545	186	148	295	--
11...	0615	162	113	258	--
11...	0645	144	124	318	--
11...	0715	127	83	243	--
11...	0745	111	50	167	--
11...	0815	94	40	159	--
11...	0845	77	40	190	--
11...	0915	66	30	170	--
11...	0945	60	26	159	--
11...	1245	62	21	124	--

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES
SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

MILL CREEK STUDY--Continued

02485590 MILL CREEK AT SPILLWAY ROAD NEAR LUCKNEY, MS--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAR					
16...	1800	5.0	.65	48	--
16...	2030	5.0	.65	48	--
16...	2145	6.0	.83	51	99
16...	2245	52	95	680	96
16...	2300	300	531	656	99
16...	2315	380	648	632	97
16...	2345	510	2550	1850	--
17...	0015	590	3390	2130	96
17...	0045	790	4390	2060	95
17...	0115	1020	5980	2170	90
17...	0130	1050	9190	3240	56
17...	0145	1080	12600	4320	80
17...	0215	1100	13400	4510	--
17...	0245	1100	9330	3140	--
17...	0315	1070	6530	2260	--
17...	0345	1030	3890	1400	74
17...	0400	990	3290	1230	68
17...	0415	980	2940	1110	79
17...	0445	930	2480	987	--
17...	0515	880	2130	896	--
17...	0545	790	1770	828	--
17...	0615	740	1410	705	--
17...	0645	680	1080	590	--
17...	0715	590	769	483	--
17...	0730	540	636	436	--
17...	0745	510	582	423	--
17...	0815	440	443	373	--
17...	0845	370	351	351	--
17...	0915	260	196	279	--
17...	0945	200	137	254	--
17...	1015	125	76	226	--
17...	1025	125	75	222	--

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES
WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

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NATIONAL STREAM-QUALITY ACCOUNTING NETWORK

LOWER MISSISSIPPI RIVER LAGRANGIAN STUDY

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L) AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L) AS NA) (00930)	
JUL 28...	1615	329000	487	7.8	35.0	31.5	5.9	49	17	21	
DATE	TIME	POTAS-SIUM, DIS-SOLVED (MG/L) AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L) AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) AS F) (00950)	SILICA, DIS-SOLVED (MG/L) AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N) (00631)
JUL 28...	3.6	149	122	65	14	.26	7.9	292	<.010	2.38	
DATE	TIME	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L) AS N) (00623)	PHOS-PHORUS TOTAL (MG/L) AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L) AS P) (00671)	IRON, DIS-SOLVED (UG/L) AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN) (01056)	UV ABSORB-ANCE 254 NM, WTR, FLT (UNITS) /CM) (50624)	CARBON, ORGANIC DIS-SOLVED (MG/L) AS C) (00681)
JUL 28...	<.020	.43	.45	.208	.112	.103	<10	E1.7	.104	4.0	

07078400 MISSISSIPPI RIVER NEAR ROSEDALE, MS

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	
JUL 30...	1300	366000	473	7.7	33.5	31.5	5.5	50	17	20	
DATE	TIME	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) (00950)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)
JUL 30...	3.9	154	126	57	16	.24	8.3	287	<.010	2.33	
DATE	TIME	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L) (00623)	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L) (00671)	IRON, DIS-SOLVED (UG/L) (01046)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	UV ABSORB-ANCE 254 NM, WTR, FLT (UNITS) (50624)	CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)
JUL 30...	<.020	.85	.46	.230	.106	.107	<10	<3.0	.127	4.6	

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES
 WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
 NATIONAL STREAM-QUALITY ACCOUNTING NETWORK
 LOWER MISSISSIPPI RIVER LAGRANGIAN STUDY--Continued
 07265401 ARKANSAS RIVER AT MILE 0 NEAR ARKANSAS CITY, AR

		DIS CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	
JUL 30...	1030	26900	509	7.7	32.0	32.5	6.6	40	9.9	42	
DATE		POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
JUL 30...	3.9	111	91	55	55	.17	7.1	292	<.010	.366	
DATE		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	UV ABSORB- ANCE 254 NM, WTR,FLT (UNITS /CM) (50624)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
JUL 30...	<.020	.55	.28	.141	.112	.057	<10	<3.0	.131	4.0	

Also see 07288955 Yazoo River below Steele Bayou near Long Lake, MS and 07289000 Mississippi River at Vicksburg, MS

GROUND-WATER LEVELS

GRENADA COUNTY

334213089442701. Local number H024.

LOCATION.--Lat 33°42'21", long 89°44'27", in NW1/4 NE1/4 sec. 11, T.21 N., R.5 E., Choctaw Meridian, Grenada County, Hydrologic Unit 08030205, at old Camp McCain site, 1 mi northeast of Elliott.

Owner: Charles Blakely (formerly U.S. Army).

AQUIFER.--Meridian Sand Member of Tallahatta Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter of casing 18-12 in, depth 82 ft.

INSTRUMENTATION.--Handar 555 Data Collection Platform installed February 1998. Water level transmitted every 4 hours.

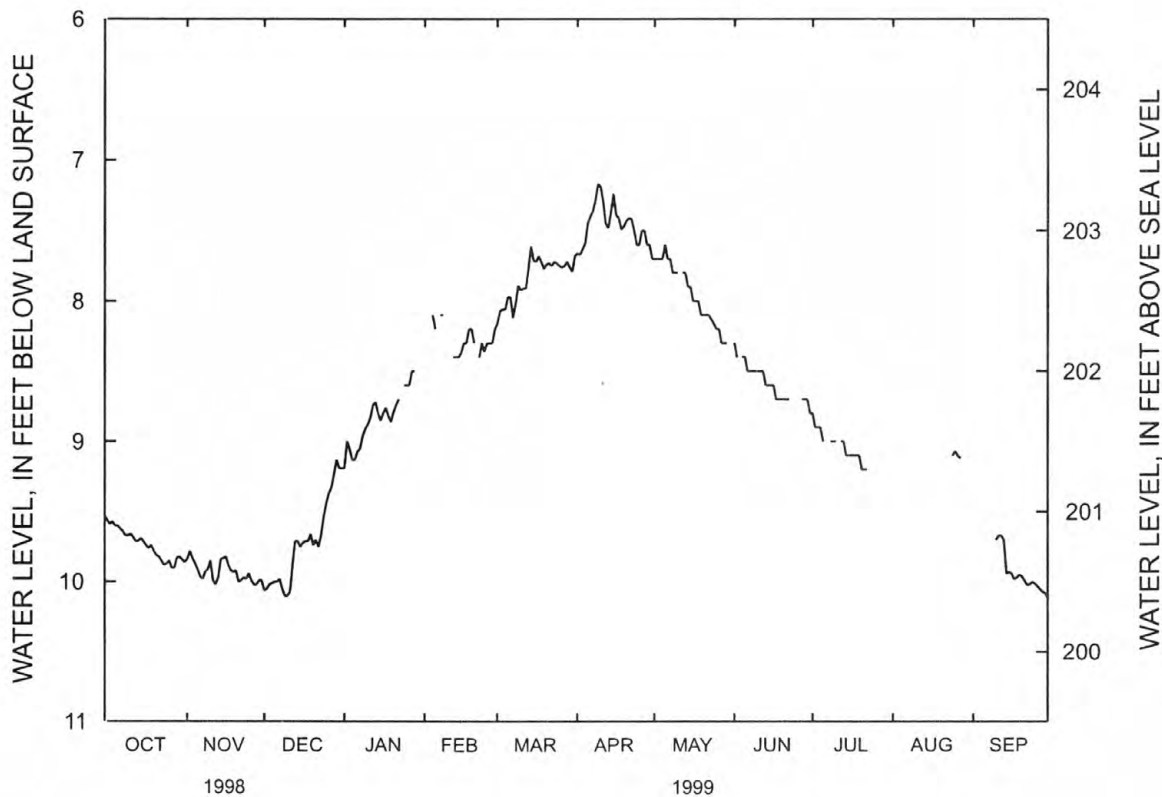
DATUM.--Land-surface datum is 210.5 ft above sea level. Measuring point: Top of 12-in casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--Miscellaneous water-level measurements 1943, February 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.95 ft below land-surface datum Mar. 19, 1998, lowest measured 10.11 ft, Sept. 30, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.60	9.91	10.00	9.13	8.20	7.97	7.45	7.60	8.40	9.00	---	---
10	9.66	9.85	10.10	8.88	---	7.92	7.19	7.80	8.50	9.00	---	9.70
15	9.71	9.83	9.75	8.85	8.37	7.71	7.24	7.90	8.60	9.10	---	9.93
20	9.81	9.92	9.74	8.79	8.30	7.74	7.43	8.10	8.70	9.20	---	9.96
25	9.85	9.94	9.44	8.60	8.30	7.75	7.60	8.20	---	---	9.07	10.01
EOM	9.86	9.99	9.19	---	---	7.68	7.70	---	8.80	---	---	10.11
WTR	HIGH 7.17 APR 9			LOW 10.11 SEP 30								



HINDS COUNTY

321957090105601. Local number, H155.

LOCATION.--Lat 32°19'52", long 90°10'59", in NW1/4 SE1/4 sec.27, T.6 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, on North West Street near Taylor Street, 2.0 mi north of center of Jackson.

Owner: Department of Environmental Quality, Office of Geology.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well (test hole), diameter 4 in, depth 200 ft.

DATUM.--Land-surface datum is 330 ft above sea level. Measuring point: Top of casing, 40 ft above land-surface datum.

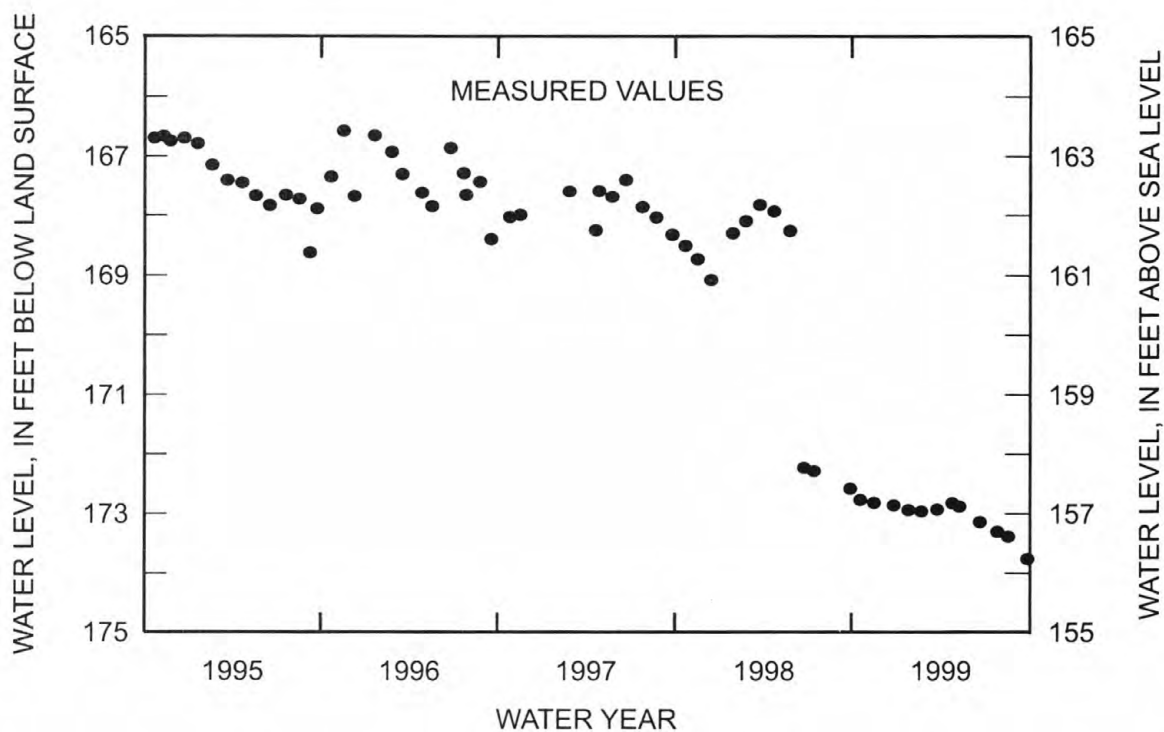
REMARKS.--Slug tested June 1998, well response sluggish, cleaned well with air, water level changed about 4 feet.

PERIOD OF RECORD.--Periodic water-level measurements July 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 143.13 ft below land-surface datum, Jul. 11, 1972, lowest measured, 173.72 ft below land-surface datum, Sept. 28, 1999.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	172.24	DEC 28	172.83	FEB 23	172.93	APR 27	172.79	JUN 24	173.11	AUG 19	173.36
NOV 17	172.79	JAN 27	172.91	MAR 26	172.90	MAY 12	172.85	JUL 29	173.27	SEP 28	173.72



WAYNE COUNTY

31415088392301. Local number, N151.

LOCATION.--Lat 31°41'07", long 88°39'27", in NE1/4 SE1/4 sec.2, T.8 N., R.7 W., St. Stephens Meridian, Wayne County, Hydrologic Unit 03170002, 1 mi northwest of center of Waynesboro at Turner Street and Gulf Mobile and Ohio Railroad.

Owner: Town of Waynesboro.

AQUIFER.--Waynesboro Sand Lentic of Byram Formation of Oligocene age.

WELL CHARACTERISTICS.--Drilled unused artesian aquifer, diameter 18-8 in, depth 82 ft.

INSTRUMENTATION.--Handar 555 Data Collection Platform. Water level transmitted every 4 hours.

DATUM.--Land-surface datum is 180 ft above sea level. Measuring point: 1-in breather pipe inside shelter, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--Miscellaneous measurements 1973, February 1975 to September 1993, February 1998 to current year.

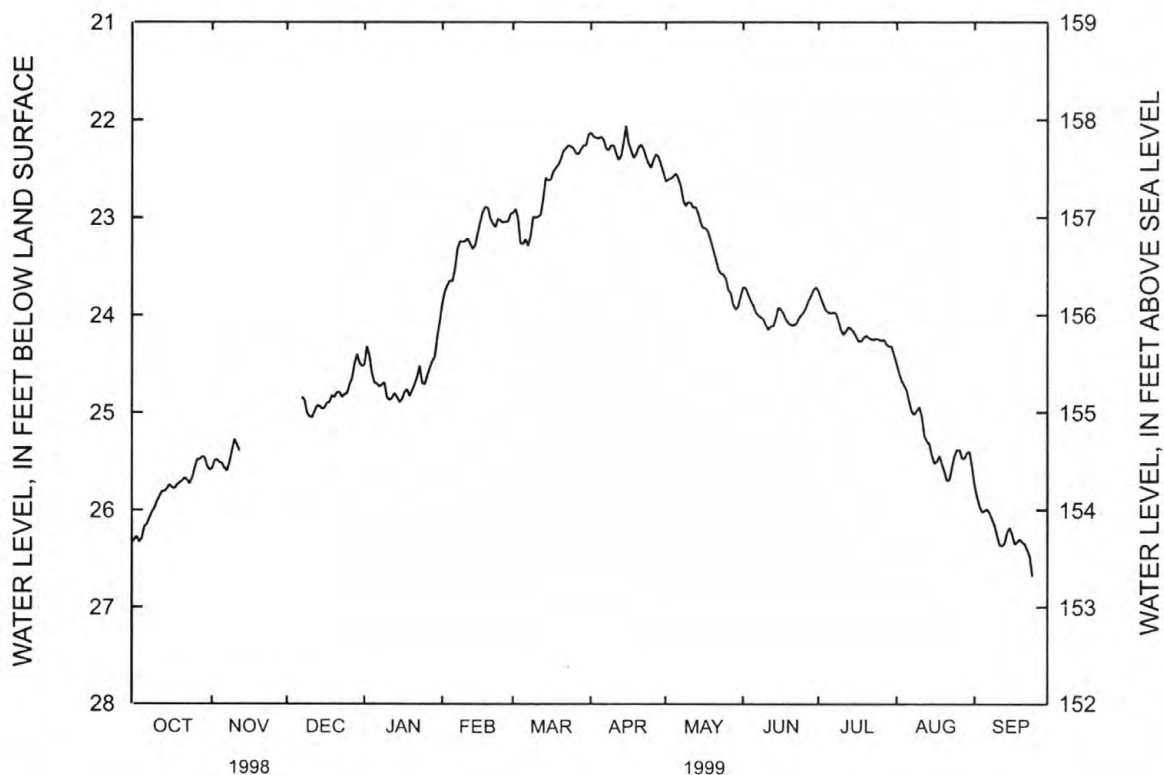
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.52 ft below land-surface datum, Apr. 5, 1990, lowest measured, 35.73 ft below land-surface datum, Jan. 22, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.17	25.52	---	24.69	23.65	23.27	22.17	22.55	23.90	23.97	24.77	26.01
10	25.91	25.27	25.04	24.84	23.24	23.00	22.26	22.84	24.10	24.15	24.94	26.26
15	25.74	---	24.96	24.89	23.16	22.62	22.06	23.05	23.92	24.17	25.44	26.18
20	25.70	---	24.84	24.77	23.01	22.40	22.28	23.33	24.10	24.21	25.61	26.33
25	25.57	---	24.80	24.71	23.05	22.29	22.49	23.62	23.97	24.25	25.38	---
EOM	25.59	---	24.52	24.06	22.96	22.15	22.55	23.80	23.71	24.41	25.55	---

WTR HIGH 21.99 APR 15 LOW 26.80a SEP 25

a May have been lower during period of missing record.



HINDS COUNTY

322112090195601. Local number, G059.

LOCATION.--Lat 32°21'12", long 90°19'56", in NW1/4 NW1/4 sec.19, T.6 N., R.1 W., Choctaw Meridian, Hinds County. Hydrologic Unit 08060202, at Clinton Industrial Park, off west Northside Drive.

Owner: City of Clinton.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in, depth 893 ft.

DATUM.--Land-surface datum is 325 ft above sea level (from topographic map).

Measuring point: Air vent at pump base, 2.10 ft above land-surface datum.

REMARKS.--Water level affected by length of time pump off before measurement made.

PERIOD OF RECORD.--April 1960, September 1976, October 1980, July 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 192.0 ft below land-surface datum, Apr. 15, 1960, lowest measured, 247.83 ft below land-surface datum, Oct. 20, 1998.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	247.83	APR 28	245.62

322128090174901. Local number, G101.

LOCATION.--Lat 32°21'28", long 90°17'49", in SE1/4 SE1/4 sec.16, T.6 N., R.1 W., Choctaw Meridian, Hinds County. Hydrologic Unit 08060202, 2.5 mi northeast of center of Clinton off Northside Drive.

Owner: City of Clinton.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16 in, depth 842 ft.

DATUM.--Land-surface datum is 297 ft above sea level (from topographic map).

Measuring point: Air vent at pump base, 2.15 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--July 1984, May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 225 ft below land surface datum, July 18, 1984, lowest measured, 285.92 ft below land-surface datum, Feb. 25, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	265.75	APR 28	261.34

322003090092501. Local number, H196.

LOCATION.--Lat 32°20'11", long 90°09'33", in SE1/4 NE1/4 sec.25, T.6 N., R.1 E., Choctaw Meridian, Hinds County. Hydrologic Unit 03180002, near intersection of Interstate 55 and Lakeland Drive at Mississippi Agriculture and Forestry Museum.

Owner: Mississippi Department of Agriculture.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 275 ft.

DATUM.--Land-surface datum is 290 ft above sea level (from topographic map).

Measuring point: Top of 4-inch well seal, 0.8 ft above land-surface datum.

PERIOD OF RECORD.--April 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 135.14 ft below land-surface datum, Apr. 26, 1994, lowest measured, 143.67 ft below land-surface datum, Sept. 28, 1999.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	142.45	---	---	FEB 23	142.60	APR 27	143.71	JUN 24	142.81	AUG 19	143.16
NOV 17	142.41	JAN 27	142.60	MAR 26	142.62	MAY 12	142.45	JUL 29	142.98	SEP 28	143.67

321445090160001. Local number, M094.

LOCATION.--Lat 32°14'52", long 90°15'59", in SW1/4 NE1/4 sec. 26, T.5 N., R.1 W., Choctaw Meridian, Hinds County. Hydrologic Unit 08060202, on Forest Hill Road in south Jackson.

Owner: City of Jackson.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in, depth 1,079 ft.

DATUM.--Land-surface datum is 360 ft above sea level (from topographic map).

Measuring point: Air vent at pump base, 4.10 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--August 1968, April 1973, May 1987, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 225 ft below land-surface datum, Aug. 1968, lowest measured, 314.69 ft below land-surface datum Mar. 22, 1996.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	303.30	DEC 29	301.70	FEB 23	300.45	APR 27	300.35	JUN 24	308.65	AUG 19	309.59
NOV 17	302.74	JAN 27	303.10	MAR 26	299.90	MAY 12	300.80	JUL 29	306.02	SEP 28	309.77

321423090180201. Local number, M112.

LOCATION.--Lat 32°14'25", long 90°18'01", in SW1/4 SE1/4 sec. 28, T.5 N., R.1 W., Choctaw Meridian, Hinds County. Hydrologic Unit 08060202, on Siwell Road next to fire station in south Jackson.

Owner: City of Jackson.

AQUIFER.--Sparta sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public supply artesian well, diameter 16 in, depth 1,398 ft.

DATUM.--Land-surface datum is 330 ft above sea level (from topographic map).

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--October 1980, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 250 ft below land-surface datum, Oct. 20, 1980, lowest measured, 292.11 ft below land-surface datum, Mar. 22, 1996.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	288.60	DEC 29	280.88	FEB 23	278.45	APR 28	278.30	JUN 24	285.15	---	---
NOV 17	282.85	JAN 27	280.68	MAR 26	280.45	MAY 26	279.09	JUL 29	286.81	SEP 28	288.36

HINDS COUNTY--Continued

321752090102601. Local number, N092.

LOCATION.--Lat 32°17'59", long 90°10'32", in SW1/4 SW1/4 sec.2, T.5 N., R.1 E., Choctaw Meridian, Hinds County.
Hydrologic Unit 03180002, southeast corner of Mississippi State Fairgrounds off Jefferson Street.

Owner: Mississippi Fair Commission.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 260 ft.

DATUM.--Land-surface datum is 271 ft above sea level (from topographic map).

Measuring point: Top of 4-in casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--June 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 99.01 ft below land-surface datum, June 6, 1986, lowest measured 109.79 ft below land-surface datum, May 12, 1999.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	108.63	DEC 28	108.49	FEB 23	108.92	APR 27	108.72	JUN 24	109.05	AUG 19	109.28
NOV 17	108.60	JAN 29	108.31	MAR 26	108.65	MAY 12	109.79	JUL 29	109.15	SEP 28	109.54

320554090173902. Local number, V033.

LOCATION.--Lat 32°04'30", long 90°54'33", in NW1/4 SW1/4 sec.15, T.3 N., R.1 W., Choctaw Meridian, Hinds County.
Hydrologic Unit 03180002, near intersection of Jackson Street and Raymond Street in Terry.

Owner: Town of Terry.

AQUIFER.--Sand of Forest Hill Formation of Oligocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10 in, depth 473 ft.

DATUM.--Land-surface datum is 286 ft above sea level (from topographic map).

Measuring point: Top of concrete base, 1.65 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--September 1959, September 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65 ft below land-surface datum, Sept. 1959, lowest measured, 194.68 ft below land-surface datum, Oct. 20, 1998.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	194.68	APR 27	186.25

MADISON COUNTY

322415090085001. Local number, V029.

LOCATION.--Lat 32°24'22", long 90°09'45", in NW1/4 SE1/4 sec.35, T.7 N., R.1 E., Choctaw Meridian, Madison County.
Hydrologic Unit 03180002, 0.1 mi west of center of Tougaloo at Tougaloo College.

Owner: Tougaloo College.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled institutional use artesian well, diameter 12 in, depth 831 ft.

DATUM.--Land-surface datum is 355 ft above sea level (from topographic map).

Measuring point: 3/4-in air vent, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--June 1969, July 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 233 ft below land-surface datum, June 1969, lowest measured, 314.08 ft below land-surface datum, Sept. 28, 1999.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	309.19	--- --	-----	FEB 23	301.02	APR 27	302.91	JUN 24	308.10	AUG 19	309.84
NOV 17	306.72	JAN 28	302.84	MAR 26	302.84	MAY 12	303.23	JUL 15	307.24	SEP 28	314.08

322627090062401. Local number, W005.

LOCATION.--Lat 32°26'27", long 90°06'24", in NE1/4 NE1/4 sec.20, T.7 N., R.2 E., Choctaw Meridian, Madison County.
Hydrologic Unit 03180002, 1 mi southeast of center of Madison near Bruce Campbell Airport.

Owner: Willard F. Bond Home.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 500 ft.

DATUM.--Land-surface datum is 320 ft above sea level (from topographic map).

Measuring point: Top of concrete base 0.50 ft or hole in plate on well head (since Apr. 24, 1961) at land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--January 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 112.88 ft below land-surface datum, Apr. 12, 1957, lowest measured, 197.51 ft below land-surface datum, Oct. 19, 1998.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	197.51	APR 27	187.13

322528090080401. Local number, W036.

LOCATION.--Lat 32°25'28", long 90°08'04", in NE1/4 NW1/4 sec.30, T.7 N., R.2 E., Choctaw Meridian, Madison County.
Hydrologic Unit 03180002, near US Highway 51 and Natchez Trace in Ridgeland.

Owner: City of Ridgeland.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused public supply artesian well, diameter 10 in, depth 690 ft.

DATUM.--Land-surface datum is 360 ft above sea level (from topographic map).

Measuring point: Air vent at pump base, 2.00 ft above land-surface datum.

REMARKS.--Water level affected by limited time pump off.

PERIOD OF RECORD.--October 1963, April 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 167 ft below land-surface datum, Oct. 14, 1963, lowest measured, 252.26 ft below land-surface datum, Sept. 20, 1999.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	244.43	--- --	-----	FEB 23	236.36	APR 27	241.72	JUN 24	242.30	AUG 19	247.49
NOV 17	243.10	JAN 27	238.07	MAR 26	234.62	MAY 12	236.49	JUL 29	244.10	SEP 28	252.26

MADISON COUNTY--Continued

322514090080901. Local number, W069.

LOCATION.--Lat 32°25'13", long 90°08'10", in NE1/4 SW1/4 sec.30, T.7 N., R.2 E., Choctaw Meridian, Madison County.
Hydrologic Unit 03180002, 0.5 mi south of Natchez Trace, west side of U.S. Highway 51 at Ridgeland.

Owner: City of Ridgeland.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16-inch, depth 1161 ft.

DATUM.--Land-surface datum is 350 ft above sea level (from topographic map).

Measuring point: 34-inch air vent, 1.70 ft above land-surface datum.

REMARKS.--Water levels affected by the length of pumping time prior to recovery and measurement.

PERIOD OF RECORD.--December 1986, September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 258 ft below land-surface datum, Dec. 30, 1986, lowest measured, 320.60 ft below land-surface datum, Jul. 29, 1999.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	317.95	---	---	FEB 23	300.95	APR 28	305.95	JUN 24	314.00	AUG 19	316.78
NOV 17	309.09	JAN 27	303.15	MAR 26	304.80	MAY 12	304.40	JUL 29	320.60	SEP 20	319.80

322702090082301. Local number, W074.

LOCATION.--Lat 32°27'02", long 90°08'23", in SW1/4 NW1/4 sec.18, T.7 N., R.2 E., Choctaw Meridian, Madison County.
Hydrologic Unit 03180002, 0.75 mi southwest of center of Madison.

Owner: City of Madison.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in, depth 1380 ft.

DATUM.--Land-surface datum is 379 ft above sea level (from topographic map).

Measuring point: Vent pipe at pump base, 1.10 ft above land-surface datum.

REMARKS.--Water level affected by limited time pump off.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 290.42 ft below land-surface datum, Dec. 22, 1987, lowest measured, 335.48 below land-surface datum, Oct. 20, 1998.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	335.48	APR 28	329.31

RANKIN COUNTY

322249089582101. Local number, G043.

LOCATION.--Lat 32°22'49", long 89°58'21", in SW1/4 NW1/4 sec.10, T.6 N., R.3 E., Choctaw Meridian, Rankin County.
Hydrologic Unit 03180002, 7.4 mi north of Brandon on Spillway road.

Owner: Pearl River Valley Water Supply District.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16 in, depth 1,190 ft.

DATUM.--Land-surface datum is 320 ft above sea level (from topographic map).

Measuring point: Air vent at pump motor base, 1.70 ft above land-surface datum.

PERIOD OF RECORD.--November 1980, August 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 155 ft below land-surface datum, Nov. 9, 1980, lowest measured, 217.38 ft below land-surface datum, Oct. 20, 1998.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	217.38	APR 27	211.79

321735090022201. Local number, K067.

LOCATION.--Lat 32°17'37", long 90°08'42", in SE1/4 NE1/4 sec. 12, T.5 N., R.1 E., Choctaw Meridian, Rankin County.
Hydrologic Unit 03180002, 1 mi north of U.S. Highway 80 on State Highway 468 at Payne Drive in Flowood.

Owner: City of Flowood.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused public supply well, diameter 4 in, depth 714 ft.

DATUM.--Land-surface datum is 266 ft above sea level.

Measuring point: Top of 4-in casing, 3.05 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--November 1958, February 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 117.95 ft below land-surface datum Nov. 1958, lowest measured 230.31 ft below land-surface datum, Oct. 20, 1998.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	230.31	APR 27	225.24

321423090045501. Local number, K073.

LOCATION.--Lat 32°14'26", long 90°04'47", in SW1/4 SE1/4 sec. 27, T.5 N., R.2 E., Choctaw Meridian, Rankin County.
Hydrologic Unit 03180002, near intersection of State Highway 468 and Airport Road at Whitfield.

Owner: Department of Mental Health, Hudspeith Center.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10-in casing, 4-in screen, depth 789 ft.

DATUM.--Land-surface datum is 305 ft above sea level.

Measuring point: Top of 10-in casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--Miscellaneous water-level measurements June 1961, September 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 133 ft below land-surface datum, Jun. 9, 1961, lowest measured, 201.21 ft below land-surface datum Sept. 28, 1999.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	196.46	DEC 29	195.85	---	---	APR 27	193.86	JUN 24	196.59	AUG 19	198.85
NOV 17	195.55	JAN 27	195.32	MAR 23	191.58	MAY 12	194.79	JUL 29	196.81	SEP 28	201.21

Aquifer names corresponding to geologic units listed in the QUALITY OF GROUND WATER table are given below.

Geologic Unit	Aquifer Name
110ALVM	Quaternary alluvium, Quaternary
110TRCS	Undifferentiated terrace deposits, Quaternary
111ALVM	Holocene alluvium, Holocene
111TRCS	Undifferentiated terrace deposits, Holocene
112MRVA	Mississippi River alluvial aquifer, Pleistocene
112TRCS	Undifferentiated terrace deposits, Pleistocene
121CRNL	Citronelle Formation, Pliocene
121GRMF	Graham Ferry Formation, Pliocene
122PCGL	Pascagoula Formation, Miocene
122HBRG	Hattiesburg Formation, Miocene
122MOCN	Miocene Series, Miocene
122CTHL	Catahoula Formation, Miocene
122CTHLU	Upper Catahoula Formation, Miocene
122CTHLM	Middle Catahoula Formation, Miocene
122CTHLL	Lower Catahoula Formation, Miocene
123WSBR	Waynesboro Sand Lentil (informal usage) of Byram Formation, Oligocene
123CCKS	Chickasawhay Limestone, Oligocene
123VKBG	Vicksburg Group, Oligocene
123MSPG	Mint Spring Marl member of Marianna Limestone, Oligocene
123FRHL	Forest Hill Sand, Oligocene
124MDBC	Moodys Branch Formation, Eocene
124CCKF	Cockfield Formation, Eocene
124SPRT	Sparta Sand, Eocene
124TLT	Tallahatta Formation, Eocene
124MUWX	Meridian-Upper Wilcox aquifer, Eocene
124WLCXM	Middle Wilcox aquifer, Eocene
124WLCXL	Lower Wilcox aquifer, Eocene
211RPLY	Ripley Formation, Upper Cretaceous
211COFF	Coffee Sand, Upper Cretaceous
211EUTW	Eutaw Formation, Upper Cretaceous
211EUTWR	Eutaw Formation (restricted), Upper Cretaceous
211EUTWL	Lower Eutaw Formation, Upper Cretaceous
211MCSN	McShan Formation, Upper Cretaceous
211GORD	Gordo Formation, Upper Cretaceous
211COKR	Coker Formation, Upper Cretaceous
211MSSV	Massive Sand, Upper Cretaceous
300PLZC	Paleozoic Erathem, Paleozoic
331TCMB	Tuscumbia Limestone, Upper Mississippian
337FRPN	Fort Payne Chert, Lower Mississippian

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

FRANKLIN COUNTY

312417091033501 L043 USGS

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)
SEP 13...	1445	122MOCN	115.00	5.5	21	26	4040	8.00	4040	120
DATE		PH WATER SPE-CIFIC WHOLE FIELD TEMPER- DUCT- (STAND- ATURE WATER ANCE ARD (DEG C) (US/CM) UNITS) (00095) (00400) (00010)		COLOR (PLAT- INUM- COBALT (MG/L) (MG/L) (00080) (00915)	CALCIUM DIS- SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	POTAS-SIUM, DIS- SOLVED (MG/L) (00935)	SULFATE DIS- SOLVED (MG/L) (00945)	CHLO-RIDE, DIS- SOLVED (MG/L) (00940)
SEP 13...	14200	5.7	20.0	<5	260	88	3000	11	4.6	5100
DATE		FLUO-RIDE, DIS- SOLVED (MG/L) (00950)	SILICA, DIS- SOLVED (MG/L) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) (00613)	NITRO-GEN, NITRITE DIS- SOLVED (MG/L) (00631)	NITRO-GEN, NO2+NO3 DIS- SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS- SOLVED (MG/L) (00608)	PHOS-PHORUS ORTHO, DIS- SOLVED (MG/L) (00671)	IRON, DIS- SOLVED (UG/L) (01046)	MANGA-NESE, DIS- SOLVED (UG/L) (01056)
SEP 13...	<.10	27	9390	.020	2.60	1.20	.020	37	3000	

312415091033501 L044 USGS

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)
SEP 14...	1015	122MOCN	84.00	6.7	21	26	4040	8.00	4040	120
DATE		PH WATER SPE-CIFIC WHOLE FIELD TEMPER- DUCT- (STAND- ATURE WATER ANCE ARD (DEG C) (US/CM) UNITS) (00095) (00400) (00010)		COLOR (PLAT- INUM- COBALT (MG/L) (MG/L) (00080) (00915)	CALCIUM DIS- SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	POTAS-SIUM, DIS- SOLVED (MG/L) (00935)	SULFATE DIS- SOLVED (MG/L) (00945)	CHLO-RIDE, DIS- SOLVED (MG/L) (00940)
SEP 14...	5050	5.6	19.5	<5	190	68	760	5.0	6.8	1700
DATE		FLUO-RIDE, DIS- SOLVED (MG/L) (00950)	SILICA, DIS- SOLVED (MG/L) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) (00613)	NITRO-GEN, NITRITE DIS- SOLVED (MG/L) (00631)	NITRO-GEN, NO2+NO3 DIS- SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS- SOLVED (MG/L) (00608)	PHOS-PHORUS ORTHO, DIS- SOLVED (MG/L) (00671)	IRON, DIS- SOLVED (UG/L) (01046)	MANGA-NESE, DIS- SOLVED (UG/L) (01056)
SEP 14...	<.10	29	3930	.030	.670	.040	<.010	170	680	

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

FRANKLIN COUNTY--Continued

312416091033301 L045 USGS

DATE	TIME	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM- PLING CONDI- TION (72006)	SAM- PLING METHOD, CODES (82398)	WELL PURGING CONDI- TION (CODE) (84143)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
SEP 14...	1145	122MOCN	74.00	6.0	26	4040	8.00	4040	120	7060
DATE		PH WATER WHOLE FIELD TEMPER- STAND- ARD (DEG C) (00400)		COLOR (PLAT- INUM- COBALT UNITS) (00080)	CALCIUM DIS- SOLVED (MG/L) AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K) (00935)	SULFATE DIS- SOLVED (MG/L) AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)
SEP 14...	5.7	19.5	<5	270	102	1200	6.3	6.6	2500	
DATE		FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	SILICA, DIS- SOLVED (MG/L) AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) AS N) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) AS P) (00671)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN) (01056)
SEP 14...	<.10	27	5650	<.010	1.40	.060	<.010	36	1700	

312417091033401 L046 USGS

DATE	TIME	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM- PLING CONDI- TION (72006)	SAM- PLING METHOD, CODES (82398)	WELL PURGING CONDI- TION (CODE) (84143)
SEP 14...	1105	122MOCN	105.00	10.0	20	26	4040	8.00	4040	120
DATE		SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD TEMPER- STAND- ARD (DEG C) (00400)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	CALCIUM DIS- SOLVED (MG/L) AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K) (00935)	SULFATE DIS- SOLVED (MG/L) AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)
SEP 14...	14200	5.2	19.5	<5	280	91	3000	13	4.4	5500
DATE		FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	SILICA, DIS- SOLVED (MG/L) AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) AS N) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) AS P) (00671)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN) (01056)
SEP 14...	<.10	30	9880	.050	2.40	1.40	.020	21	3100	

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
FRANKLIN COUNTY--Continued
312414091033701 L047 USGS

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	FLOW RATE (G/M)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	SAMPLE SOURCE	SAMPLER TYPE (CODE)	SAM-PLING CONDI-TION	SAM-PLING METHOD, CODES	WELL PURGING CONDI-TION (CODE)
SEP 14...	1445	122MOCN	83.00	6.6	38	26	4040	8.00	4040	120
DATE		PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM COBALT UNITS)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
SEP 14...	13400	5.2	19.5	<5	500	191	2100	9.7	6.2	4500
DATE		FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
SEP 14...	<.10	29	9050	.020	1.90	.060	.020	70	7600	

312416091033701 L048 USGS

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	FLOW RATE (G/M)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	SAMPLE SOURCE	SAMPLER TYPE (CODE)	SAM-PLING CONDI-TION	SAM-PLING METHOD, CODES	WELL PURGING CONDI-TION (CODE)
SEP 14...	1500	122MOCN	81.00	10.0	20	26	4040	8.00	4040	120
DATE		PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM COBALT UNITS)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
SEP 14...	10900	5.5	19.5	10	320	116	1900	9.7	5.6	3700
DATE		FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
SEP 14...	<.10	27	7140	.050	2.10	.200	.010	320	4300	

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

FRANKLIN COUNTY--Continued

312417091033701 L049 USGS

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)
SEP 14...	1210	122MOCN	117.00	6.7	15	26	4040	8.00	4040	120
DATE		PH WATER WHOLE FIELD TEMPER- (STAND-ARD UNITS) (00095) (00400) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	
SEP 14...	135	5.9	20.0	10	7.3	2.7	13	1.7	3.2	26
DATE		FLUO-RIDE, DIS-SOLVED (MG/L) (00950)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L) (00671)	IRON, DIS-SOLVED (UG/L) (01046)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)
SEP 14...	<.10	40	195	<.010	.130	.020	<.010	17	19	

312417091033601 L050 USGS

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
SEP 14...	1230	122MOCN	68.00	6.0	26	4040	8.00	4040	120	14100
DATE		PH WATER WHOLE FIELD TEMPER- (STAND-ARD UNITS) (00400) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	
SEP 14...	5.2	20.0	<5	300	124	2700	9.6	6.1	4800	
DATE		FLUO-RIDE, DIS-SOLVED (MG/L) (00950)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L) (00671)	IRON, DIS-SOLVED (UG/L) (01046)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)
SEP 14...	<.10	27	9020	<.010	2.30	.500	.020	34	11500	

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

FRANKLIN COUNTY--Continued

312418091033401 LO51 USGS

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)
SEP 14...	1600	122MOCN	105.00	6.0	14	26	4040	8.00	4040	120
DATE		PH WATER WHOLE FIELD (STAND-ARD UNITS) (00095) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM COBALT UNITS) (00080)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
SEP 14...	15200	5.4	19.5	<5	240	80	3100	12	4.4	5200
DATE		FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS N) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 14...	<.10	24	9590	.100	2.70	1.70	.010	14	2700	

312421091033601 LO53 USGS

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)
SEP 14...	1635	122MOCN	83.00	5.0	10	26	4040	8.00	4040	120
DATE		PH WATER WHOLE FIELD (STAND-ARD UNITS) (00095) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM COBALT UNITS) (00080)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
SEP 14...	2730	6.0	19.5	10	26	9.5	510	3.0	2.2	800
DATE		FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS N) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 14...	<.10	30	1560	<.010	1.90	.030	<.010	21	270	

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

FRANKLIN COUNTY--Continued

312422091033601 L054 USGS

DATE	TIME	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM- PLING CONDI- TION (72006)	SAM- PLING METHOD, CODES (82398)	WELL PURGING CONDI- TION (CODE) (84143)
SEP 16...	1215	122MOCN	74.00	5.0	240	26	4040	8.00	4040	120
DATE		PH WATER SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)
SEP 16...	7100	5.4	20.0	10	350	116	910	6.6	4.9	2300
DATE		FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	SILICA, DIS- SOLVED (MG/L) AS SIO2 (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) AS P (00671)	IRON, DIS- SOLVED (UG/L) AS FE (01046)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN (01056)
SEP 16...	<.10	44	4720	<.010	.730	.020	.020	29	290	

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

HARRISON COUNTY

303541089185801 A047 LESTER SHAW

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 12...	1425	121GRMF	410.00	12.0	20	27	4090	8.00	4090
DATE		WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)

APR 12...	150	226	7.9	5	5.3	146	5.7	30
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303546089190901 A049 JANICE SHAW

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 12...	1245	121GRMF	220.00	10.0	20	28	4090	8.00	4090
DATE		WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)

APR 12...	150	102	6.5	5	3.2	115	57	5.5
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303724089200001 A056 A HICKMAN

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 12...	1545	121GRMF	184.00	12.0	15	27	4090	8.00	4090
DATE		WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)

APR 12...	28	98	6.2	5	3.7	133	40	11
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303851089043301 C286 LARRY HALEY

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	
APR 21...	1445	122PCGL	730.00	10.0	20	27	4090	8.00	4090	
DATE		WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)

APR 21...	28	295	8.5	22.5	5	2.5	191	2.9	9.1
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QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

HARRISON COUNTY--Continued

303736089032701 C288 U S FOREST SERVICE

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (84143)
APR 21...	1550	122PCGL	645.00	20	28	4040	8.00	4040	28
DATE		SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT) (UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) AS FE (70300)	IRON, DIS-SOLVED (UG/L) AS MN (01046)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)

APR 21...	292		8.3	23.5	5	2.5	200	11	8.0
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303746089033501 C292 KENNETH WILLIAMS

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (84143)
APR 21...	1635	122PCGL	515.00	30	27	4090	8.00	4090	28
DATE		SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT) (UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) AS FE (70300)	IRON, DIS-SOLVED (UG/L) AS MN (01046)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)

APR 21...	97		6.4	24.5	10	3.2	113	600	20
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303651089063401 C327 JOHN BOND

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	
APR 21...	1335	122PCGL	810.00	10.0	15	27	4090	8.00	4090	
DATE		WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT) (UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) AS FE (70300)	IRON, DIS-SOLVED (UG/L) AS MN (01046)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)

APR 21...	28	425	8.9	24.5	10	2.4	265	5.1	5.0
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303813088530801 D045 W H GABLE

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 14...	1245	122PCGL	620.00	10.0	20	27	4090	8.00	4090
DATE		WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	COLOR (PLAT-INUM-COBALT) (UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) AS FE (70300)	IRON, DIS-SOLVED (UG/L) AS MN (01046)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)

APR 14...	28	251	8.4	5	2.1	169	4.8	3.4
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QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

HARRISON COUNTY--Continued

303402088555001 D047 TIM PRESTON

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 14...	1340	121GRMF	300.00	10.0	10	27	4040	8.00	4040
DATE		WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)

APR 14...	28	202	7.3	5	2.8	162	120	53
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303612089012901 D049 TOMMY VOGEL

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 13...	1615	121GRMF	92.00	10.0	10	27	4090	8.00	4090
DATE		WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)

APR 13...	28	28	5.0	5	3.5	15	69	3.3
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303820088543601 D052 JOHN TARANTO JR

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 14...	1130	121GRMF	277.00	10.0	20	27	4090	8.00	4090
DATE		WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)

APR 14...	28	32	5.1	5	2.8	25	5.0	2.6
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303235089182501 E105 JOHN W KENDRICKS JR

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 13...	1125	121GRMF	245.00	5.0	20	27	4090	8.00	4090
DATE		WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)

APR 13...	28	165	6.9	5	3.2	141	45	70
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QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

HARRISON COUNTY--Continued

302844089192001 E109 FREDERICK SAPIA

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 13...	1005	121CRNL	84.00	5.0	5	27	4090	8.00	4090
DATE		WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS FE) (70300)	IRON, DIS-SOLVED (UG/L AS MN) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
APR 13...	28	27	4.8	5	3.3	24	66	6.1	

302910089153401 E119 BECKY MILLER

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	
APR 13...	0920	121GRMF	470.00	10.0	20	27	4090	8.00	
DATE		SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS FE) (70300)	IRON, DIS-SOLVED (UG/L AS MN) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
APR 13...	4090	28	168	5	3.0	144	230	140	

303104089034001 G457 GRAND CASINO GOLF COURSE

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	
APR 13...	1425	121GRMF	450.00	200	10	31	4040	8.00	4040	
DATE		WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS FE) (70300)	IRON, DIS-SOLVED (UG/L AS MN) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
APR 13...	28	318	8.2	23.5	10	2.7	219	44	18	

303009088540601 H048 R H LADNER

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)
APR 22...	1530	122PCGL	840.00	10.0	15	27	4100
DATE		SAM-PLING CONDI-TION (CODE) (72006)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
APR 22...	4.00	4100	28	925	8.4	25.0	160

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

HARRISON COUNTY--Continued

303124089542501 H288 NEAL WOOD

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)
APR 22...	1030	122PCGL	537.00	10.0	20	28	4090	8.00

DATE	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
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APR 22...	4090	28	292	9.1	24.5	10	3.5	2.3
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303217088570401 H291 WHITE PLAINS METHODIST CHURCH

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 22...	1450	122PCGL	640.00	10.0	20	27	4090	8.00	4090

DATE	WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS FE) (70300)	IRON, DIS-SOLVED (UG/L AS MN) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
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APR 22...	28	272	9.0	25.0	10	6.1	180	3.1	3.4
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302930088543401 H302 JAMES CHIPMAN

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 22...	1235	122PCGL	745.00	10.0	25	28	4090	8.00	4090

DATE	WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS FE) (70300)	IRON, DIS-SOLVED (UG/L AS MN) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
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APR 22...	28	492	8.7	26.0	10	46	299	3.7	13
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303052088561001 H308 OLIE LAMEY

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 14...	1805	122PCGL	882.00	10.0	10	27	4040	8.00	4040

DATE	WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS FE) (70300)	IRON, DIS-SOLVED (UG/L AS MN) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
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APR 14...	28	313	9.2	25.0	10	6.9	206	3.1	6.7
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QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

HARRISON COUNTY--Continued

303237088552401 H321 DON WILLIAMS

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
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APR 14...	1520	121GRMF	330.00	10.0	15	27	4090	8.00	4090
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DATE	WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
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APR 14...	28	307	8.2	5	15	206	7.3	4.2
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302741089124001 K324 WAYNE GORDON

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)
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APR 15...	1135	122PCGL	950.00	10.0	30	28	4090	8.00	4090	28
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DATE	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS S04) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
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APR 15...	357	9.4	10	.20	.00	86	.30	9.7	2.0
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DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
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APR 15...	.71	19	229	<.010	<.020	.300	.310	4.9	1.0
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302809089123401 K370 LIONEL FAYARD

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
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APR 15...	1245	122PCGL	680.00	25	28	4040	8.00	4040
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DATE	WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
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APR 15...	28	202	7.9	5	3.4	163	52	240
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QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

HARRISON COUNTY--Continued

302110089053301 L175 GULFPORT PORT AUTHORITY

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)
APR 15...	1500	122PCGL	1320.00	10.0	10	27	4090	8.00	4090
DATE	TIME	WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
APR 15...	28	779	9.1	28.5	40	1.1	10	190	
DATE	TIME	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS MG) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
APR 15...	.60	3.0	8.3	.75	18	494	13	14	

302605089062101 L729 CITY OF ORANGE GROVE

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
APR 23...	1205	122PCGL	805.00	15	27	4045	4045	28	258	
DATE	TIME	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
APR 23...	8.0	26.0	5	1.8	.20	56	.50	9.2	2.8	
DATE	TIME	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS N) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
APR 23...	.17	40	187	<.010	<.020	.100	.420	63	69	

302557088530301 M266 JAMES TALLEY

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)
APR 23...	0950	122PCGL	1236.00	10.0	20	27	4100
DATE	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
APR 23...	4.00	4100	28	1790	9.9	23.0	430

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

HARRISON COUNTY--Continued

302336088583201 M740 MISSISSIPPI GULF COAST COLISEUM

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)
APR 16...	0900	121GRMF	503.00	10.0	30	27	4040	8.00
DATE	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
APR 16...	4040	28	9.2	10	2.8	215	25	2.5

302441088523901 M790 COAST TO COAST SEAFOOD COMPANY

DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	SAMPLE SOURCE (72005)	SAMPLER TYPE (CODE) (84164)
APR 23...	0830	122PCGL	1300.00	30.0	30	28	4100
DATE	SAM-PLING CONDI-TION (72006)	SAM-PLING METHOD, CODES (82398)	WELL PURGING CONDI-TION (CODE) (84143)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
APR 23...	4.00	4100	28	1480	9.2	24.0	320

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report “sea level” refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.