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ALABAMA
1979
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Water Resources Data for Alabama

Volume 2. Tombigbee, Mobile, Dog, Pascagoula, and Tennessee River Basins

U.S. GEOLOGICAL SURVEY
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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AL-79-2

WATER YEAR 1979

Prepared in cooperation with the Geological Survey of Alabama, the Alabama Highway Department, and with other State, municipal, and Federal agencies

CALENDAR FOR WATER YEAR 1979

1978

OCTOBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

NOVEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

DECEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

1979

JANUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
29	30	31				

FEBRUARY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

MARCH

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

APRIL

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

MAY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JUNE

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

JULY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

AUGUST

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

SEPTEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Water Resources Data for Alabama

Volume 2. Tombigbee, Mobile, Dog, Pascagoula, and Tennessee River Basins

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AL-79-2

WATER YEAR 1979

Prepared in cooperation with the Geological Survey of Alabama, the Alabama Highway Department, and with other State, municipal, and Federal agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. W. Menard, Director

For information on the water program in Alabama write to
District Chief, Water Resources Division
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University, Alabama 35486

1980

PREFACE

This report was prepared by personnel of the Alabama district of the Water Resources Division of the U.S. Geological Survey under the supervision of W. J. Powell, District Chief, succeeded by C. A. Pascale, and R. J. Dingman, Regional Hydrologist, Southeastern Region, succeeded by J. L. Cook. It was done in cooperation with the State of Alabama and with other agencies.

This report is one of a series issued by State. General direction for the series is by Philip Cohen, Chief Hydrologist, U.S. Geological Survey, and R. J. Dingman, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for Alabama are in two volumes as follows:

Volume 1. Apalachicola, Choctawhatchee, Blackwater, Escambia, Perdido River basins, and Alabama River basin in the Mobile River basin.

Volume 2. Dog, Tombigbee, Mobile, Pascagoula, and Tennessee River basins.

50272-101

REPORT DOCUMENTATION PAGE	1. REPORT NO. USGS/WRD/HD-80/017	2.	3. Recipient's Accession No.

4. Title and Subtitle
Water Resources Data for Alabama, Water Year 1979
Volume 2. Tombigbee, Mobile, Dog Pascagoula, and Tennessee River basins.

5. Report Date
October 1979

6.

7. Author(s)

8. Performing Organization Rept. No.

9. Performing Organization Name and Address
U.S. Geological Survey, Water Resources Division
P. O. Box V
University, Alabama 35486

10. Project/Task/Work Unit No.
USFS WDR-AL-79-2

11. Contract(C) or Grant(G) No.
(C)
(G)

12. Sponsoring Organization Name and Address
U.S. Geological Survey, Water Resources Division
P. O. Box V
University, Alabama 35485

13. Type of Report & Period Covered
Annual-October 1, 1978 to September 30, 1979

14.

15. Supplementary Notes
Prepared in cooperation with the Geological Survey of Alabama, the Alabama Highway Department, and with other State, Municipal, and Federal agencies.

16. Abstract (Limit: 200 words)

Water resources data for the 1979 water year for Alabama consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reserviors, and water levels in wells. This report contains discharge records for 99 gaging stations; stage only for 23 gaging stations, stage and contents for 12 lakes and reserviors; water quality for 71 gaging stations, and water levels for 53 observation wells. Also included are 24 low-flow partial-record stations, 20 crest-stage partial-record stations, 11 flood hydrograph partial record stations, and 112 water-quality partial-record stations. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Alabama.

17. Document Analysis a. Descriptors
*Alabama, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reserviors, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.

b. Identifiers/Open-Ended Terms
Alabama

c. COSATI Field/Group

18. Availability Statement
No restriction on distribution. This report may be purchased from: National Technical Information Service, Springfield, VA 22161

19. Security Class (This Report)
UNCLASSIFIED

20. Security Class (This Page)
UNCLASSIFIED

21. No. of Pages
454

22. Price

(See ANSI–Z39.18) *See Instructions on Reverse* OPTIONAL FORM 272 (4–77) (Formerly NTIS–35) Department of Commerce

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(Letter after station name designates type of data: (d) discharge, (c) chemical, (b) biological, (t) water temperature, (s) sediment, (g) gage height)

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02462600 BLUE CREEK NEAR OAKMAN, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	28.0	26.5	27.5	14.5	12.5	13.5	10.0	8.5	9.0	13.0	10.0	12.0
2	26.0	24.0	25.5	14.0	12.0	13.0	9.5	7.0	8.5	10.0	5.5	8.0
3	25.0	19.0	22.5	13.5	11.5	12.5	12.5	9.5	11.0	5.5	4.0	4.5
4	20.0	17.0	19.0	13.0	9.5	11.5	14.5	10.5	12.5	5.5	3.5	4.5
5	18.0	14.5	16.5	12.0	9.0	11.0	10.5	7.5	9.0	6.5	5.0	5.5
6	17.0	14.5	16.0	13.5	9.5	11.5	8.5	6.0	7.5	8.5	6.5	7.0
7	15.0	11.0	13.5	13.5	13.0	13.5	12.0	8.5	10.0	11.0	8.5	10.0
8	14.0	10.0	12.5	13.0	10.5	12.0	16.0	12.5	14.0	9.0	6.0	7.5
9	14.5	9.5	12.0	11.0	8.5	10.0	13.0	7.5	10.5	5.5	4.0	5.0
10	15.0	10.5	13.0	10.5	8.5	9.5	7.5	5.0	6.0	5.5	4.0	5.0
11	17.5	13.5	15.5	11.5	9.0	10.0	6.0	4.0	5.0	6.0	4.5	5.0
12	20.0	14.5	17.0	12.5	10.5	11.5	5.0	3.0	4.0	7.0	5.5	6.5
13	19.5	15.0	17.0	13.5	11.5	12.5	5.0	2.5	4.0	8.5	7.0	8.0
14	17.0	13.0	15.0	14.0	12.0	13.0	5.0	3.5	4.0	8.0	3.5	5.5
15	13.0	10.0	11.5	14.5	13.5	14.0	5.0	2.0	3.5	3.5	1.5	3.0
16	12.0	10.0	11.0	16.0	14.5	15.5	7.5	5.0	6.5	5.0	2.5	3.5
17	12.0	10.0	11.0	17.0	14.5	16.0	7.0	5.0	6.0	7.5	5.0	6.0
18	11.5	9.0	10.5	14.5	11.0	12.5	6.5	3.5	5.0	9.5	7.5	8.5
19	11.5	8.5	10.5	11.5	9.0	10.5	10.0	6.5	8.5	8.5	8.0	8.0
20	12.5	9.5	11.0	13.0	10.5	12.0	13.0	10.5	12.0	11.0	9.0	10.0
21	12.0	9.5	11.0	13.0	11.0	12.0	12.5	7.5	10.5	11.0	8.5	9.5
22	12.5	10.0	11.5	13.0	11.5	12.0	7.5	5.5	6.5	9.0	7.5	8.5
23	13.5	11.0	12.5	14.5	12.5	13.5	7.0	4.5	5.5	9.0	7.5	8.0
24	14.0	12.5	13.0	15.5	13.0	14.5	8.0	7.0	7.5	8.5	6.5	7.5
25	13.5	10.5	12.0	13.0	11.0	12.0	7.5	5.5	6.5	7.0	5.0	6.0
26	14.5	12.5	13.5	12.5	10.5	11.5	6.5	4.0	5.0	7.5	6.0	7.0
27	15.0	13.5	14.5	13.5	12.5	13.0	5.5	4.0	4.5	8.0	7.0	7.5
28	14.0	11.5	13.0	13.5	11.0	12.5	5.5	2.5	3.5	7.0	5.0	6.0
29	13.0	10.5	12.0	11.0	10.0	10.5	6.5	5.0	6.0	5.5	4.0	5.0
30	14.5	12.0	13.5	11.5	10.0	11.0	8.5	6.5	7.5	5.0	4.5	5.0
31	14.0	12.0	13.0	---	---	---	11.5	8.5	10.5	5.5	3.5	5.0
MONTH	28.0	8.5	14.5	17.0	8.5	12.5	16.0	2.0	7.5	13.0	1.5	6.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	1.5	3.0	12.5	10.0	11.0	---	---	---	18.0	17.5	17.5
2	3.5	1.5	2.5	13.0	9.0	11.0	---	---	---	---	---	---
3	5.5	3.5	4.5	13.0	12.0	12.5	---	---	---	---	---	---
4	7.0	5.5	6.0	13.0	10.5	12.0	---	---	---	---	---	---
5	6.0	4.5	5.0	12.0	9.0	10.5	---	---	---	---	---	---
6	5.5	4.0	4.5	11.5	8.0	10.0	---	---	---	---	---	---
7	6.5	5.5	6.0	12.0	8.5	10.0	---	---	---	---	---	---
8	7.0	6.0	6.5	11.0	9.0	10.0	---	---	---	---	---	---
9	7.0	3.5	5.0	11.5	7.0	9.5	---	---	---	---	---	---
10	5.0	2.0	3.5	10.5	9.5	10.0	---	---	---	---	---	---
11	5.5	2.5	4.5	11.0	8.0	9.5	---	---	---	---	---	---
12	6.5	4.0	5.5	11.5	6.5	9.0	---	---	---	---	---	---
13	7.5	5.0	6.5	12.5	8.5	10.5	---	---	---	---	---	---
14	9.0	7.0	8.0	14.5	11.5	13.0	---	---	---	---	---	---
15	11.5	8.0	9.5	12.0	8.5	10.5	---	---	---	---	---	---
16	11.0	7.5	9.5	11.5	8.5	10.0	---	---	---	---	---	---
17	7.5	6.0	6.5	14.0	9.5	11.5	---	---	---	---	---	---
18	6.5	6.0	6.0	15.5	10.5	13.0	---	---	---	---	---	---
19	8.0	6.0	7.0	16.0	11.5	14.0	---	---	---	---	---	---
20	7.5	5.5	6.5	16.0	12.5	14.5	---	---	---	---	---	---
21	10.0	8.0	9.0	16.5	14.0	15.0	---	---	---	---	---	---
22	12.5	10.0	11.0	16.0	13.5	14.5	---	---	---	---	---	---
23	12.5	12.0	12.0	16.0	13.5	14.5	---	---	---	---	---	---
24	13.0	11.5	12.0	13.5	11.0	12.0	---	---	---	---	---	---
25	12.5	9.0	10.5	11.5	8.5	10.0	20.0	18.0	19.5	---	---	---
26	10.5	8.5	9.5	12.0	7.0	10.0	20.0	15.5	18.0	---	---	---
27	10.0	7.0	8.5	11.0	8.5	9.5	19.5	16.0	17.5	---	---	---
28	10.5	8.0	9.5	---	---	---	18.0	14.0	16.5	---	---	---
29	---	---	---	---	---	---	19.5	14.5	17.5	---	---	---
30	---	---	---	---	---	---	20.0	15.0	18.0	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	13.0	1.5	7.0	16.5	6.5	11.5	20.0	14.0	18.0	18.0	17.5	17.5

02462600 BLUE CREEK NEAR OAKMAN, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	27.0	24.0	25.5	27.5	26.5	27.0	29.0	29.0	29.0
2	---	---	---	27.0	23.0	25.0	27.0	26.5	27.0	29.0	29.0	29.0
3	---	---	---	28.5	23.5	26.0	27.5	26.5	27.0	29.0	28.5	29.0
4	---	---	---	29.0	24.0	26.5	28.0	27.0	27.5	28.5	28.5	28.5
5	---	---	---	29.5	25.0	27.5	28.0	27.5	27.5	28.5	28.5	28.5
6	---	---	---	31.0	25.5	28.5	28.0	27.5	28.0	28.5	28.5	28.5
7	23.5	22.0	23.0	30.5	29.0	30.0	28.5	27.5	28.0	28.5	23.5	26.5
8	25.0	21.0	23.0	29.0	27.0	28.0	28.5	28.0	28.0	24.0	21.5	23.0
9	26.0	22.5	24.0	27.0	24.5	26.0	28.0	28.0	28.0	23.5	20.5	22.0
10	25.5	22.0	24.0	25.0	23.5	24.5	28.5	27.5	28.0	23.5	20.5	22.0
11	24.0	20.5	22.0	24.5	23.5	24.0	28.0	27.5	28.0	23.5	20.0	21.5
12	23.0	18.0	21.0	26.0	23.0	24.5	27.5	27.5	27.5	23.0	20.5	22.0
13	24.0	18.5	21.5	25.0	24.0	24.5	27.5	27.0	27.5	22.5	21.0	22.0
14	23.5	19.5	21.5	25.0	24.5	24.5	27.0	27.0	27.0	21.5	20.0	21.0
15	23.5	19.5	21.5	26.5	24.5	25.5	27.0	27.0	27.0	20.5	18.5	19.5
16	23.5	19.0	21.5	27.5	26.5	27.0	27.0	26.5	26.5	20.0	18.5	19.5
17	24.5	19.5	22.0	28.0	27.0	27.5	26.5	26.5	26.5	20.0	19.5	19.5
18	---	---	---	28.0	27.5	27.5	26.5	26.5	26.5	20.5	19.5	20.0
19	---	---	---	27.5	27.5	27.5	27.0	26.5	26.5	21.0	20.0	20.5
20	---	---	---	27.5	27.0	27.0	27.5	27.0	27.0	20.5	20.0	20.5
21	---	---	---	27.0	27.0	27.0	28.0	27.0	27.5	22.0	20.5	21.0
22	---	---	---	27.0	26.5	27.0	29.0	28.0	28.5	20.5	19.5	20.0
23	---	---	---	26.5	26.5	26.5	29.0	29.0	29.0	20.0	18.5	19.5
24	---	---	---	26.5	26.5	26.5	29.0	29.0	29.0	19.5	18.5	19.0
25	---	---	---	26.5	26.0	26.0	29.0	29.0	29.0	20.0	18.5	19.0
26	24.0	21.5	23.0	26.0	26.0	26.0	29.0	29.0	29.0	19.5	18.5	19.0
27	25.0	21.0	23.0	26.0	25.0	25.5	29.0	29.0	29.0	20.0	19.5	19.5
28	24.5	20.5	22.5	25.5	24.0	25.0	29.0	29.0	29.0	20.5	19.5	20.0
29	25.5	21.5	23.5	26.0	24.0	25.0	29.0	29.0	29.0	20.5	18.0	19.5
30	28.5	23.0	25.5	26.5	25.0	25.5	29.0	29.0	29.0	21.0	18.0	19.5
31	---	---	---	27.5	25.5	26.5	29.0	29.0	29.0	---	---	---
MONTH	28.5	18.0	22.5	31.0	23.0	26.0	29.0	26.5	28.0	29.0	18.0	22.5
YEAR	31.0	1.5	15.5									

02462600 BLUE CREEK NEAR OAKMAN, AL--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Time	Streamflow, instantaneous (cfs)	Sediment, suspended (mg/L)
Nov			
30.....	0010	1.1	47
Dec			
01.....	0010	1.1	19
02.....	0010	0.78	14
03.....	0010	0.35	11
04.....	0220	0.27	24
04.....	0235	0.30	30
04.....	0250	0.30	32
04.....	0305	0.30	40
04.....	0320	0.35	64
04.....	0335	0.50	119
04.....	0350	0.64	147
04.....	0405	0.93	168
04.....	0420	1.2	175
04.....	0705	5.5	106
04.....	0720	4.8	90
04.....	0735	4.5	68
04.....	0750	4.2	59
04.....	0805	3.9	45
04.....	0835	3.0	47
04.....	0850	2.7	71
04.....	0905	2.4	57
04.....	0920	2.1	66
04.....	0935	1.8	76
04.....	0950	1.6	80
04.....	1005	1.6	89
04.....	1020	2.4	95
04.....	1035	3.3	100
04.....	1050	4.2	95
04.....	1105	4.8	81
04.....	1120	4.8	106
04.....	1135	4.8	100
04.....	1150	4.8	94
04.....	1205	4.8	90
04.....	1220	4.5	80
04.....	1235	4.5	71
04.....	1250	4.2	73
04.....	1330	4.5	40
04.....	1605	4.2	44
05.....	0020	2.7	41
06.....	0105	0.93	29
07.....	0105	0.50	22
08.....	0105	0.35	16
09.....	0115	30	212
10.....	0115	1.8	38
11.....	0115	0.50	19
12.....	0115	0.30	12
13.....	0115	0.24	9
14.....	0115	0.22	9
15.....	0115	0.19	14
16.....	0030	0.19	4
17.....	0030	0.24	6
18.....	0030	0.22	5
19.....	0030	0.24	7
20.....	0030	0.24	6
21.....	0030	0.32	7
22.....	0030	1.2	7
23.....	0030	1.1	15
24.....	0030	0.93	5
25.....	0030	2.4	5
26.....	0030	1.6	3
27.....	0030	1.5	3
28.....	0030	1.4	2
29.....	0030	1.2	3
30.....	0030	2.4	2
31.....	0030	6.8	7
Jan			
01.....	0030	11	11
01.....	1005	104	1820
01.....	1415	89	5400
02.....	0030	52	236
02.....	1110	32	86
02.....	1125	31	62
02.....	1140	31	64
02.....	1155	30	35
02.....	1210	30	26
02.....	1225	29	22
02.....	1240	29	26
02.....	1255	28	26
02.....	1310	28	20
02.....	1325	28	19
02.....	1355	28	17
02.....	1410	28	17
02.....	1425	27	16
02.....	1440	27	16
02.....	1455	27	16
02.....	1510	27	15
02.....	1525	27	14
02.....	1540	26	15
02.....	1555	26	14
02.....	1610	26	14
02.....	1625	26	12
02.....	1640	25	15
02.....	1655	25	15
02.....	1710	25	14
02.....	1725	25	17
02.....	1740	25	16
02.....	1755	24	14
02.....	1810	24	16
02.....	1825	24	14
02.....	1840	24	14
02.....	1855	24	15
02.....	1910	24	13
02.....	1925	23	15
02.....	1940	23	19
02.....	1955	22	11
02.....	2010	22	12
02.....	2025	22	11
02.....	2040	22	11
02.....	2055	22	12
03.....	1200	14	5
03.....	1316	14	6
12.....	1402	8.2	7
12.....	1405	8.2	5
12.....	1420	8.2	5
12.....	1745	7.9	3
15.....	1330	3.9	7
15.....	1340	3.9	2
15.....	1345	3.9	1
19.....	1935	8.2	12
19.....	2210	56	95
20.....	0025	90	128
20.....	0230	134	164
20.....	0415	332	2790
20.....	0440	434	1880
20.....	0500	540	2360
20.....	0725	500	837
20.....	0900	376	714
20.....	1400	290	671
20.....	2220	282	544
20.....	2250	358	734
21.....	0120	350	466
21.....	0335	282	376
21.....	1030	134	222

02462600 BLUE CREEK NEAR OAKMAN, AL--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Time	Streamflow, instantaneous (cfs)	Sediment, suspended (mg/L)
Jan			
21.....	1800	90	94
22.....	0730	56	40
23.....	1505	30	55
23.....	2300	56	56
30.....	1150	8.6	37
31.....	1910	7.9	34
Feb			
06.....	1250	5.8	12
12.....	1255	6.8	12
18.....	0010	6.2	323
24.....	0005	113	732
24.....	0035	148	725
24.....	0105	193	978
24.....	0245	302	701
24.....	0405	268	110
24.....	0945	130	41
24.....	1610	90	137
25.....	0025	101	51
25.....	0545	89	32
26.....	1150	37	20
27.....	1100	22	22
Mar			
03.....	0435	45	354
03.....	0655	85	303
03.....	1150	124	858
03.....	1310	240	1180
03.....	1330	318	1940
03.....	1355	421	3280
03.....	1535	1480	2160
03.....	1615	1330	1820
03.....	1640	1080	1750
03.....	1715	966	1850
03.....	1855	1120	2660
03.....	1925	1510	2210
03.....	1935	1680	1850
03.....	2010	2040	2360
03.....	2045	1410	676
03.....	2105	1170	2950
03.....	2131	988	524
03.....	2120	896	1600
03.....	2310	548	278
04.....	0155	310	210
04.....	0535	172	107
04.....	1345	92	182
05.....	1510	32	43
09.....	1730	7.2	35
14.....	1412	4.8	45
25.....	1025	9.0	28
27.....	1000	6.5	16
28.....	1815	10	13
29.....	0425	8.6	14
29.....	0910	24	16
29.....	1925	8.6	34
31.....	2240	9.3	22
Apr			
02.....	1430	13	17
02.....	2345	57	343
03.....	0310	92	129
03.....	0520	128	141
03.....	1125	89	62
03.....	2020	56	33
04.....	0001	59	37
04.....	0910	56	21
09.....	1945	9.0	15
12.....	0515	16	182
12.....	0550	49	2160
Apr			
12.....	0630	97	1530
12.....	0645	120	1000
12.....	0735	130	938
12.....	1115	129	250
12.....	1210	493	834
12.....	1220	721	1070
12.....	1225	858	1260
12.....	1240	1350	2070
12.....	1305	2440	3380
12.....	1335	3040	1360
13.....	1235	282	134
13.....	1600	206	92
14.....	0755	92	95
15.....	0600	43	157
17.....	1450	14	66
25.....	1427	3.9	11
May			
25.....	1320	0.78	8
Jun			
04.....	1100	3.0	6
25.....	1300	0.35	4
Aug			
07.....	1208	0.50	10
07.....	1240	0.50	11
30.....	1200	0.64	6
30.....	2055	1.6	38
30.....	2335	13	96
31.....	0135	11	52
31.....	0230	9.0	37
Sep			
01.....	2120	2.1	749
01.....	2210	16	567
01.....	2225	37	1370
01.....	2235	74	3370
01.....	2245	112	1540
01.....	2320	118	885
02.....	0030	78	465
02.....	0130	56	339
02.....	0230	42	229
02.....	0430	32	170
02.....	0530	27	135
02.....	0630	25	112
02.....	0730	22	93
02.....	0830	21	72
02.....	0930	19	67
02.....	1330	19	243
02.....	1430	18	61
02.....	1530	19	64
02.....	1630	18	74
02.....	1730	18	51
02.....	1830	16	47
02.....	1930	16	43
02.....	2030	15	33
02.....	2130	14	37
03.....	0030	12	35
03.....	0130	12	34
03.....	0230	12	29
03.....	0330	11	32
03.....	0430	11	40
03.....	0530	10	30
07.....	1349	1.5	12
13.....	0740	5.5	27
13.....	0810	7.9	56
13.....	0930	32	153
13.....	1015	62	487

02462600 BLUE CREEK NEAR OAKMAN, AL--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Time	Streamflow, instantaneous (cfs)	Sediment, suspended (mg/L)	Date	Time	Streamflow, instantaneous (cfs)	Sediment suspended (mg/L)
Sep				Sep			
13.....	1040	96	864	15.....	2230	10	12
13.....	1205	195	1340	16.....	1845	7.9	10
13.....	1325	118	446	17.....	1110	10	26
13.....	1354	104	310	17.....	1310	16	35
13.....	1650	71	119	18.....	1520	32	68
14.....	0145	37	60	18.....	2000	36	48
14.....	1915	19	48	20.....	0650	18	16
15.....	0725	14	14	20.....	1025	17	9

02462951 BLACK WARRIOR RIVER AT HOLT LOCK AND DAM NEAR HOLT, AL

LOCATION.--Lat 33°15'11", long 88°26'57", in NW¼ sec. 2, T. 21 S., R. 9 W., Tuscaloosa County, Hydrologic Unit 03160112, on left bank 50 ft (15 m) upstream from lock and dam, 0.1 mi (0.2 km) downstream from Jim Mack Branch, 0.7 mi (1.1 km) upstream from Hurricane Creek, 2.0 mi (3.2 km) northeast of Holt, 3.2 mi (5.1 km) upstream from North River, and at mile 135.1 (217.4 km).

DRAINAGE AREA.--4,230 mi^2 (10,960 km^2).

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

COOPERATION.--Records furnished by Alabama Power Company.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 178,000 ft^3/s (5,040 m^3/s) Apr. 13, 1979; maximum gage height, 188.17 ft (57.354 m) Oct. 25, 1977; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 178,000 ft^3/s (5,040 m^3/s) Apr. 13; maximum gage height, 187.85 ft (57.257 m) Apr. 12; no flow Oct. 3, 9, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	670	400	350	8070	9600	11600	6120	10800	7910	450	2870	3740
2	2010	250	450	27400	9790	12100	7420	9690	6020	2430	3340	7250
3	.00	300	450	17400	9250	48700	29900	8510	3470	2280	4320	9970
4	1450	200	1140	11200	9180	123000	38900	8490	5650	500	1350	8910
5	900	300	2530	11200	9130	78000	27600	8960	4970	4570	400	4860
6	530	550	3370	8180	9180	67000	20500	5220	5130	3740	2900	5660
7	330	650	1530	13800	10800	31000	15400	5270	3920	4450	2890	3140
8	100	450	2510	23800	11000	23200	12500	5310	4600	550	2820	370
9	.00	450	9170	12300	10500	19900	10800	5980	3440	3380	2880	50
10	260	550	8380	11000	9470	17200	12400	5160	1920	9910	2920	3070
11	420	400	5230	9130	8350	15100	11100	4060	3640	7710	1700	2240
12	670	250	2880	9060	7070	17300	77600	4800	3240	3830	1310	4600
13	150	350	1420	9070	7010	13700	178000	10000	3580	3330	2480	7530
14	.00	450	2620	7160	7530	11600	131000	6080	2770	3420	2730	5410
15	100	300	1760	7540	7790	10900	89600	7290	3500	730	1920	560
16	200	300	300	8970	6840	11000	54000	4460	1690	3550	2260	900
17	150	400	350	7940	6390	9190	23900	3680	500	2570	3430	5600
18	250	910	1470	7090	1390	9170	17100	2660	3510	2900	920	10400
19	500	990	1440	7660	6900	9370	19500	500	3320	3530	1970	8500
20	1890	500	990	46900	9290	9260	14000	1100	3150	8200	1930	6530
21	750	980	790	72500	9060	9130	16300	3790	1210	12500	1270	6960
22	450	1240	2090	54500	9340	9170	13700	3700	2680	6990	1470	9500
23	450	550	410	29900	10100	9960	16000	2220	3040	7930	2760	4240
24	600	500	2650	26300	33400	10700	12500	2520	500	4210	2480	2500
25	150	300	150	18700	37400	7840	13900	3580	2210	3910	1320	940
26	640	400	5830	12100	36800	7900	16100	2420	1630	4400	2910	2140
27	1040	500	4590	13200	20300	9220	24900	1820	2020	4740	2610	3630
28	430	920	3300	10600	16100	9190	22300	3030	2280	1560	3630	12600
29	500	500	5490	9330	---	9100	14800	5870	5280	1400	2730	18500
30	620	400	4330	9180	---	8250	13700	6350	550	4390	3670	10800
31	560	---	1810	8970	---	200	---	7040	---	3080	7590	---
TOTAL	16770.00	15240	79780	530150	338960	638950	961540	160360	97330	127140	79780	171100
MEAN	541	508	2574	17100	12110	20610	32050	5173	3244	4101	2574	5703
MAX	2010	1240	9170	72500	37400	123000	178000	10800	7910	12500	7590	18500
MIN	.00	200	150	7090	1390	200	6120	500	500	450	400	50
CFSM	.13	.12	.61	4.04	2.86	4.87	7.58	1.22	.77	.97	.61	1.35
IN.	.15	.13	.70	4.66	2.98	5.62	8.46	1.41	.86	1.12	.70	1.50

CAL YR 1978 TOTAL 1658710.00 MEAN 4544 MAX 53800 MIN .00 CFSM 1.07 IN 14.59
WTR YR 1979 TOTAL 3217100.00 MEAN 8814 MAX 178000 MIN .00 CFSM 2.08 IN 28.29

02462952 BLACK WARRIOR RIVER BELOW HOLT LOCK AND DAM NEAR HOLT, AL

LOCATION.--Lat 33°15'10", long 87°27'05", in NW¼ sec. 2, T. 21 S., R. 9 W., Tuscaloosa County, Hydrologic Unit 03160112, at downstream end of lock, 0.2 mi (0.3 km) downstream from Jim Mack Branch, 0.6 mi (1.0 km) upstream from Hurricane Creek, 2.0 mi (3.2 km) northeast of Holt, 3.1 mi (5.0 km) upstream from North River, and at mile 135.0 (217.2 km).

DRAINAGE AREA.--4,230 mi^2 (10,960 km^2).

PERIOD OF RECORD.--July 1966 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. July 1966 to September 1971 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

EXTREMES (0700) FOR PERIOD OF RECORD.--Maximum gage height, 154.88 ft (47.207 m) Apr. 13, 1979; minimum, 121.0 ft (36.88 m) July 13, 1974.

EXTREMES (0700) FOR CURRENT YEAR.--Maximum gage height, 154.88 ft (47.207 m) Apr. 13; minimum, 122.90 ft (37.460 m) June 22.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123.33	123.35	123.24	123.47	125.92	127.05	123.67	126.41	124.18	123.65	123.40	123.85
2	123.46	123.46	123.50	127.67	126.07	126.67	124.56	126.09	123.55	123.30	123.22	125.09
3	123.45	123.25	123.44	128.12	126.03	127.42	127.27	126.16	123.66	123.15	123.27	126.38
4	123.34	123.38	123.48	125.94	126.02	148.29	133.41	125.43	123.38	123.24	123.38	126.10
5	123.40	123.27	123.26	126.42	125.94	143.42	130.18	125.63	123.31	123.20	123.30	123.89
6	123.43	123.26	124.11	125.27	125.82	140.22	129.29	123.78	123.52	123.53	123.38	123.55
7	123.36	123.71	123.00	126.09	126.03	132.69	127.75	124.47	123.29	123.31	123.86	123.54
8	123.36	123.24	123.29	128.39	126.36	129.12	126.38	123.35	123.75	123.18	123.28	123.44
9	123.34	123.39	125.95	126.66	126.27	127.57	126.77	123.74	123.55	123.23	123.16	123.35
10	123.38	123.28	125.81	126.85	126.11	127.78	126.45	123.63	123.72	126.25	123.19	123.29
11	123.39	123.27	123.37	125.97	126.00	127.73	126.69	123.46	123.44	124.44	123.26	123.41
12	123.39	123.55	124.15	125.85	125.23	127.98	126.13	123.67	123.38	123.83	124.27	123.34
13	123.42	123.42	123.26	125.68	125.12	127.49	154.88	126.08	123.34	123.49	123.66	125.36
14	123.45	123.23	124.06	123.87	125.03	126.45	152.52	123.70	123.30	123.57	123.33	124.14
15	123.37	123.31	123.62	125.14	125.17	126.34	146.38	124.33	122.97	123.77	123.28	124.07
16	123.37	123.05	123.07	125.83	124.56	126.54	139.52	123.58	123.66	123.43	123.23	123.79
17	123.42	123.35	123.04	124.66	124.29	125.87	129.26	123.48	123.20	123.25	123.30	123.75
18	123.38	123.54	124.25	124.33	123.56	125.83	128.10	123.50	123.07	123.30	123.25	126.99
19	123.45	124.24	124.09	124.50	124.46	126.06	127.83	123.30	123.92	123.19	123.33	125.86
20	124.21	123.27	123.75	126.70	125.99	125.82	127.16	123.23	123.21	123.16	123.28	124.73
21	123.47	123.22	123.40	138.90	125.95	125.77	127.77	123.49	123.29	126.45	123.28	124.98
22	123.38	123.22	123.96	136.34	125.96	125.87	126.69	123.40	122.90	125.20	123.39	126.52
23	123.12	123.30	123.21	131.34	126.10	126.15	127.05	123.50	123.20	125.99	123.29	124.32
24	123.73	123.47	123.29	129.55	128.22	126.77	126.34	123.50	123.60	123.42	123.33	124.84
25	123.37	123.22	123.36	128.78	131.76	125.54	126.49	123.34	123.14	123.55	123.32	123.74
26	123.34	123.29	123.17	126.87	132.70	125.44	127.70	123.32	123.46	123.53	123.32	123.62
27	123.69	123.46	124.07	127.69	129.74	125.94	130.03	123.42	123.01	123.99	123.42	123.61
28	123.29	123.32	123.38	126.52	128.21	125.86	130.20	123.72	124.00	123.40	123.35	126.07
29	123.84	123.24	123.18	126.06	---	125.89	127.35	123.49	123.67	123.33	123.46	129.90
30	123.49	123.40	123.33	125.92	---	125.81	127.25	123.41	124.08	123.56	123.36	127.28
31	123.64	---	123.78	126.00	---	123.49	---	125.09	---	123.44	125.66	---
MEAN	123.45	123.37	123.67	127.14	126.38	128.35	130.37	124.09	123.46	123.78	123.45	124.76
MAX	124.21	124.24	125.95	138.90	132.70	148.29	154.88	126.41	124.18	126.45	125.66	129.90
MIN	123.12	123.05	123.00	123.47	123.56	123.49	123.67	123.23	122.90	123.15	123.16	123.29

CAL YR 1978 MEAN 124.14 MAX 137.17 MIN 122.94
WTR YR 1979 MEAN 125.18 MAX 154.88 MIN 122.90

02462990 YELLOW CREEK NEAR NORTHPORT, AL

LOCATION.--Lat 33°22'23", long 87°28'26", in SW¼SW¼ sec. 22, T. 19 S., R. 9 W., Tuscaloosa County, Hydrologic Unit 03160112, on downstream side of county road bridge, 8.2 mi (13.2 km) north and 1.4 mi (2.3 km) west of Holt lock and dam on Black Warrior River, 20 mi (32.2 km) northeast of Northport, and at mile 12.8 (20.6 km).

DRAINAGE AREA.--8.23 mi^2 (21.32 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 320 ft (98 m), from topographic map.

REMARKS.--Water-discharge record good. Recording rain gage at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1180 ft^3/s (33.4 m^3/s) Apr. 12, 1979, gage height 11.00 ft (3.353 m); minimum, 3.2 ft^3/s (0.091 m^3/s) Oct. 4, 5, 6, 7, 12, 13, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft^3/s (7.08 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 3	2030	605	17.1	8.51	2.594	Apr. 12	2030	*1180	33.4	*11.00	3.353

Minimum discharge, 3.2 ft^3/s (0.091 m^3/s) Oct. 4, 5, 6, 7, 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.6	5.6	42	15	31	20	18	13	6.9	6.9	10
2	3.7	3.5	5.1	33	14	20	18	18	12	7.7	7.5	23
3	3.6	3.5	5.0	19	19	267	47	19	12	9.0	7.0	8.7
4	3.5	3.5	28	16	25	190	53	28	12	7.5	6.5	6.9
5	3.5	3.8	11	14	21	63	29	21	11	6.7	6.0	5.9
6	3.3	3.9	6.6	16	50	42	23	18	11	7.5	5.8	5.4
7	3.3	5.4	5.8	71	26	34	19	16	11	15	5.6	5.2
8	3.5	4.7	16	31	18	28	29	16	10	11	5.5	5.2
9	3.6	4.3	53	22	16	25	26	16	9.7	14	5.3	4.9
10	3.6	4.3	11	18	15	25	20	15	11	21	5.2	4.9
11	3.5	4.4	8.1	16	15	23	18	15	11	15	11	4.8
12	3.5	4.3	7.3	16	14	19	402	27	9.5	12	16	5.0
13	5.6	4.3	6.7	15	14	18	625	22	9.2	8.8	6.6	35
14	5.2	4.3	6.3	14	13	18	119	17	9.0	8.5	5.8	12
15	4.2	4.3	6.4	12	13	16	69	15	8.6	7.7	5.6	7.3
16	4.0	4.9	8.3	12	12	16	51	14	8.6	7.1	5.4	6.2
17	3.8	11	7.6	12	12	15	41	13	8.5	6.8	5.4	37
18	4.0	6.2	6.7	12	25	14	34	13	7.9	7.0	5.2	26
19	4.0	4.7	6.4	16	16	13	31	13	7.6	8.2	5.1	13
20	3.8	4.4	6.5	189	15	15	28	13	7.3	27	4.9	20
21	3.8	4.3	14	144	16	16	26	12	7.6	20	4.7	42
22	3.8	4.4	8.3	48	14	14	25	12	7.8	12	4.6	17
23	3.8	4.7	7.5	43	18	52	25	14	18	8.7	4.7	12
24	4.0	4.6	14	38	63	23	27	14	10	11	11	9.6
25	4.2	4.4	10	22	63	18	24	12	9.0	12	6.4	9.2
26	4.0	4.4	9.0	19	33	17	27	11	8.9	10	6.2	8.5
27	4.0	5.8	8.3	19	25	15	23	12	8.2	8.5	7.2	9.8
28	3.8	5.2	8.1	18	27	14	20	14	7.9	7.8	5.7	9.1
29	3.6	16	8.1	16	---	16	19	28	7.7	8.2	5.4	7.9
30	3.6	8.3	17	15	---	17	19	23	7.3	8.6	22	7.4
31	3.6	---	18	16	---	20	---	18	---	7.1	20	---
TOTAL	119.4	155.4	339.7	994	627	1114	1937	517	292.3	328.3	230.2	378.9
MEAN	3.85	5.18	11.0	32.1	22.4	35.9	64.6	16.7	9.74	10.6	7.43	12.6
MAX	5.6	16	53	189	63	267	625	28	18	27	22	42
MIN	3.3	3.5	5.0	12	12	13	18	11	7.3	6.7	4.6	4.8
CFSM	.47	.63	1.34	3.90	2.72	4.36	7.85	2.03	1.18	1.29	.90	1.53
IN.	.54	.70	1.54	4.49	2.83	5.03	8.75	2.34	1.32	1.48	1.04	1.71

CAL YR 1978 TOTAL 4089.0 MEAN 11.2 MAX 114 MIN 3.3 CFSM 1.36 IN 18.48
WTR YR 1979 TOTAL 7033.2 MEAN 19.3 MAX 625 MIN 3.3 CFSM 2.35 IN 31.79

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1976 to current year.
WATER TEMPERATURES: November 1976 to current year.
SUSPENDED SEDIMENT: October 1976 to current year.

INSTRUMENTATION.--Specific conductance recorder since November 1976; temperature recorder since November 1976; automatic sediment sampler since October 1976.

REMARKS.--Interruptions in specific conductance for March 8-25, April 8-August 8, September 1-5, and temperature for February 8-25, May 3-20, data were due to malfunctions of the equipment. Sediment samples are collected once daily during normal flow and with change in stage of one quarter of a foot. Samples are collected manually (EWI method) during selected events.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum (water year 1978), 22 micromhos June 20, 1978; minimum (water year 1978), 8 micromhos Oct. 7-8, Nov. 15-17, 1977, Sept. 25, 1978.
WATER TEMPERATURES: Maximum (water year 1978), 25.5°C July 17, 31, August 1, 7, 1979; minimum (water year 1978), 1.5°C December 28, 1977, Jan. 3-4, 1978.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.5°C July 17, 31, August 1, 7; minimum, 2.0°C January 15, February 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)
OCT											
06...	1030	3.4	11	6.3	14.0	40	8.4	2	0	.0	.0
NOV											
02...	1200	3.7	15	5.1	14.5	--	--	--	--	.0	.0
DEC											
07...	1230	5.8	16	6.7	12.0	--	6.0	--	--	.0	.0
JAN											
07...	0900	27	15	5.6	5.5	--	11.4	--	--	.0	.0
08...	1030	32	17	5.1	5.0	10	--	4	2	.0	.0
MAR											
01...	1400	28	16	5.5	14.0	--	9.8	--	--	.0	.0
29...	1000	.14	11	5.5	13.0	--	9.8	--	--	.0	.0
APR											
26...	1400	22	12	5.8	17.5	20	8.8	3	0	.0	.0
MAY											
21...	1000	12	11	5.7	18.0	--	8.7	--	--	.0	.0
JUN											
05...	1330	11	11	6.0	19.0	--	--	--	--	--	--
AUG											
03...	1230	7.7	9	5.6	24.0	32	8.2	2	0	.0	.0
28...	1315	6.2	9	6.0	21.0	30	8.4	2	0	.0	.0

DATE	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)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFIDE DIS-SOLVED (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT											
06...	.4	.3	1.0	.2	5	0	.0	.8	1.1	.0	6.1
NOV											
02...	--	--	--	--	2	0	--	1.0	--	--	--
DEC											
07...	--	--	--	--	6	0	--	1.6	--	--	--
JAN											
07...	--	--	--	--	2	0	--	2.9	--	--	--
08...	.8	.5	1.1	.3	2	0	.0	3.0	1.9	.0	5.6
MAR											
01...	--	--	--	--	3	0	--	2.5	--	--	--
29...	--	--	--	--	6	0	--	1.6	--	--	--
APR											
26...	.4	.4	.7	.3	5	0	.0	.7	1.4	.0	5.4
MAY											
21...	--	--	--	--	2	0	--	2.3	--	--	--
JUN											
05...	--	--	--	--	2	0	--	.7	--	--	--
AUG											
03...	.4	.3	.9	.4	2	0	.0	.5	1.6	.0	5.8
28...	.4	.2	.9	.3	2	0	.0	.4	1.0	.0	6.4

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
OCT											
06...	--	12	.02	.11	.00	.01	.27	1.2	.00	.00	--
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
JAN											
07...	--	--	--	--	--	--	--	--	--	--	--
08...	20	14	.03	1.73	--	--	--	--	.00	--	150
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
APR											
26...	--	12	.02	.74	.01	.00	.13	.62	.00	.00	130
MAY											
21...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	11	11	.02	.23	.05	.00	.34	1.7	.02	.00	--
28...	14	11	.02	.23	--	--	--	--	--	--	350

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ALUM-INUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
OCT											
06...	--	30	--	--	--	30	--	--	--	0	--
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
JAN											
07...	--	--	--	--	--	--	--	--	--	--	--
08...	--	60	1400	270	--	90	6000	50	0	50	100
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
APR											
26...	80	50	--	330	290	40	--	--	0	30	--
MAY											
21...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	500	470	30	--	10	0	10	--
AUG											
03...	30	50	1500	590	420	170	8900	30	20	10	110
28...	300	50	--	470	350	120	--	20	10	10	--

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BORON, TOTAL RECOV-ERABLE (UG/L AS B)	BORON, SUS-PENDED RECOV-ERABLE (UG/L AS B)	BORON, DIS-SOLVED (UG/L AS B)	BORON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)
JAN											
08...	0	0	1	160	140	20	0	--	9	--	10
AUG											
03...	1	1	0	--	--	9	7	0	0	0	<10

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)
JAN											
08...	<10	<10	0	10	5	1	4	10	0	0	1
AUG											
03...	10	0	<10	<10	0	0	0	<10	8	3	5

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)
JAN											
08...	10	93	77	16	10	0	0	0	<.5	.0	<.5
AUG											
03...	<10	8	8	0	10	0	0	0	<.5	.0	<.5

DATE	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR)	STRONTIUM, SUSPENDED RECOV. (UG/L AS SR)	STRONTIUM, DISSOLVED (UG/L AS SR)	STRONTIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
JAN										
08...	.04	0	0	0	0	--	0	50	10	20
AUG										
03...	.00	0	0	0	0	50	50	3	<10	30

DATE	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, INORGANIC, TOTAL (MG/L AS C)	PHENOLS (UG/L)
JAN										
08...	10	10	10	<.4	.7	.7	--	--	--	0
AUG										
03...	10	20	<10	<.4	.9	.9	.06	4.3	2.7	0

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DIATOM SPECIES ENUMERATION

MAR. 29, 1978

ORGANISM NAME	CELLS/CM2	PER CENT
BACILLARIOPHYTA		
.BACILLARIOPHYCEAE		
..BACILLARIALES		
...NITZSCHIACEAE		
....NITZSCHIA		
.....N.KUTZINGIANA		0
..EUNOTIALES		
...EUNOTIACEAE		
....EUNOTIA		
.....E.CURVATA	5	3
.....E.ELEGANS		0
.....E.FLEXUOSA	39	20
.....E.NAEGELII		0
.....E.PECTINALIS V.MINOR	59	30
.....E.VENERTS		0
..FRAGILARIALES		
...FRAGILARIACEAE		
....TABELLARIA		
.....T.FLOCCULOSA	64	33
..NAVICULALES		
...CYMBELLACEAE		
....CYMBELLA		
.....C.LUNATA	7	4
...GOMPHONEMACEAE		
....GOMPHONEMA		
.....G.BRASILIENSE	7	4
.....G.PARVULUM		0
...NAVICULACEAE		
....ANOMOEONEIS		
.....A.SERIANS V.BRACHYSIRA	5	3
....FRUSTULIA		
.....F.RHOMBOIDES	2	1
....NAVICULA		
.....N.RADIOSA	7	4
....PINNULARIA		
.....P.BRAUNII		0

DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

ORDER 1.4
FAMILY 1.7
GENERA 1.8
SPECIES 2.4

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	MAR 29,78 1200	APR 28,78 0950	JUN 6,78 1300	JUL 13,78 1200	AUG 9,78 1445
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
....TANYTARSUS	13	3	--	--	--
....THIENEMANNIELLA	6	4	--	--	--
....TRICHOCLADIUS	18	8	3	7	--
....ZAVRELIA	--	--	--	--	--
...EMPIDIDAE					
....HEMERODROMIA	2	--	--	--	1
....UNKNOWN GENUS	--	2	2	--	--
...EPHYDRIDAE					
....UNKNOWN GENUS	--	8	--	--	--
...SIMULIIDAE					
....PROSIMULIUM	--	--	--	--	--
....SIMULIUM	53	172	2	3	--
...TABANIDAE					
....TABANUS	2	--	3	--	--
...TIPULIDAE					
....ANTOCHA	--	--	--	--	1
....DICRANOTA	1	--	--	1	--
....HEXATOMA	--	--	--	--	4
....TIPULA	--	2	--	1	--
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	--	--	--	--	--
....PSEUDOCLOEON	--	--	--	--	--
...EPHEMERELLIDAE					
....EPHEMERELLA	--	12	--	--	--
...EPHEMERIDAE					
....HEXAGENIA	--	--	--	--	--
...HEPTAGENIIDAE					
....STENONEMA	32	21	19	8	--
...SIPHLONURIDAE					
....AMELETUS	--	--	--	--	--
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
..LEPIDOPTERA					
...TORTRICIDAE					
....ARCHIPS	--	--	--	--	--
..MEGALOPTERA					
...CORYDALIDAE					
....CHAULIODES	--	--	--	2	--
....CORYDALUS	--	--	--	--	--
.....C.CORNUTUS	--	2	1	--	--
....NIGRONIA	--	--	--	--	1
...SIALIDAE					
....SIALIS	--	--	--	--	1
..ODONATA					
...GOMPHIDAE					
....GOMPHUS	--	--	--	--	--
....LANTHUS	--	--	--	--	1
....OPHIOGOMPHUS	--	--	--	--	--
....UNKNOWN GENUS	--	2	--	--	--
..PLECOPTERA					
...CAPNIIDAE					
....ALLOCAPNIA	--	--	--	--	--
....PARACAPNIA	--	--	--	--	1
...CHLOROPERLIDAE					
....HASTAPERLA	8	46	--	22	--
....UNKNOWN GENUS	--	--	56	--	--
...LEUCTRIDAE					
....LEUCTRA	--	--	--	--	--
...NEMOURIDAE					
....NEMOURA	1	--	--	--	--
...PELTOPERLIDAE					
....PELTOPERLA	3	--	--	--	--
...PERLIDAE					
....(NEO)PHASGANOPHORA	--	--	--	--	--
....ACRONEURIA	14	19	6	43	20
....HESPEROPERLA	--	--	--	--	2
...PERLODIDAE					
....ISOGENUS	--	--	--	--	--
....ISOPERLA	--	--	--	--	--
...TAENIOPTERYGIDAE					
....TAENIOPTERYX	--	--	--	--	--

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	MAR 29,78	APR 28,78	JUN 6,78	JUL 13,78	AUG 9,78
TIME	1200	0950	1300	1200	1445
TOTAL COUNT	722	670	413	258	132
DIVERSITY: PHYLUM	0.1	0.0	0.0	0.0	0.3
.CLASS	0.1	0.0	0.0	0.0	0.3
..ORDER	0.9	1.6	2.0	2.0	1.9
...FAMILY	1.4	2.8	2.5	2.6	2.4
....GENUS	2.8	3.9	3.6	3.6	3.5
....GENUS-INSECTA	2.8	3.9	3.6	3.6	3.4
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..PROSOPORA					
...BRANCHIOBDELLIDAE					
....UNKNOWN GENUS	5	--	--	--	--
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	7
ARTHROPODA (ARTHROPODS)					
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
.CRUSTACEA					
..DECAPODA					
...ASTACIDAE					
....UNKNOWN GENUS	1	--	--	1	--
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	1	--	--	--	1
...ELMIDAE					
....ANCYRONYX	--	18	--	--	--
....DUBIRAPHIA	--	--	--	--	--
....GONIELMIS	--	--	--	--	--
....MICROCYLLOEPUS	--	--	--	--	--
....OPTIOSERVUS	--	25	83	44	32
....OULIMNIUS	--	--	39	23	--
....STENELMIS	21	12	28	31	8
...GYRINIDAE					
....DINEUTUS	--	1	--	--	--
...PTILODACTYLIDAE					
....ANCHYTARSUS	--	--	--	--	4
.....A.BICOLOR	2	39	13	12	--
..DIPTERA					
...CERATOPOGONIDAE=HELEIDAE					
....UNKNOWN GENUS	3	8	12	1	--
...CHIRONOMIDAE					
....ABLABESMYIA	--	--	--	5	4
....BRILLIA	--	--	--	--	--
....CHAETOCLADIUS	--	--	--	--	2
....CLADOTANYTARSUS	--	--	--	--	--
....CONCHAPELOPIA	21	21	22	1	--
....CONCHAPELOPIA,ARCTO,RHEO	--	--	--	--	--
....CONSTEMPELLINA	--	--	11	--	--
....CORYNONEURA	--	--	--	--	--
....CRICOTOPUS	--	21	--	4	1
....CRYPTOCHIRONOMUS	--	--	--	--	--
....DEMICRYPTOCHIRONOMUS	1	3	--	1	--
....EUKIEFFERIELLA	162	29	52	9	--
....LABRUNDINIA	--	16	--	--	--
....MICROPSECTRA	19	12	5	1	26
....MICROTENDIPES	7	--	--	1	1
....NANOCLADIUS	--	--	--	--	--
....ORTHOCLADIUS	--	3	--	--	--
....PARAMETRIOCNEMUS	--	--	--	--	--
....PARATANYTARSUS	--	--	--	--	6
....PENTANEURA	--	5	--	--	--
....PHAENOPSECTRA	3	--	--	--	--
....POLYPEDILUM	314	101	21	10	2
....PROCLADIUS	--	--	--	--	--
....PSECTROCLADIUS	--	13	3	--	--
....PSEUDOCHIRONOMUS	--	--	--	--	1
....RHEOCRICOTOPUS	--	--	--	--	4
....RHEOTANYTARSUS	--	5	--	1	--
....ROBACKIA	--	--	--	--	--
....SMITTIA	--	--	--	--	--
....STICTOCHIRONOMUS	--	--	--	--	--

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	MAR 29,78 1200	APR 28,78 0950	JUN 6,78 1300	JUL 13,78 1200	AUG 9,78 1445
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
..TRICHOPTERA					
...CALAMOCERATIDAE					
....ANISOCENTROPUS	--	--	--	--	--
...HELICOPSYCHIDAE					
....HELICOPSYCHE	--	--	--	--	--
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	9	35	32	26	1
....HYDROPSYCHE	--	--	--	--	--
....SYMPHITOPSYCHE	--	--	--	--	--
...HYDROPTILIDAE					
....HYDROPTILA	--	--	--	--	--
...LEPTOCERIDAE					
....LEPTOCERUS	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--
...POLYCENTROPODIDAE					
....PHYLOCENTROPUS	--	--	--	--	--
...RHYACOPHILIDAE					
....RHYACOPHILA	--	2	--	--	--

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	AUG 31,78 1030	OCT 6,78 1000	NOV 2,78 1030	JAN 7,79 0900	JAN 8,79 1030
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
....PSECTROCLADIUS	--	--	--	3	--
....PSEUDOCHIRONOMUS	--	--	--	--	--
....RHEOCRICOTOPUS	8	43	--	--	20
....RHEOTANYTARSUS	--	--	--	--	--
....ROBACKIA	--	--	--	--	--
....SMITTIA	--	3	--	29	3
....STICTOCHIRONOMUS	--	--	2	--	--
....TANYTARSUS	--	--	2	23	--
....THIENEMANNIELLA	2	--	--	7	4
....TRICHOCLADIUS	--	--	--	--	--
....ZAVRELIA	--	--	2	--	--
...EMPIDIDAE					
....HEMERODROMIA	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--
...EPHYDRIDAE					
....UNKNOWN GENUS	--	--	--	--	--
...SIMULIIDAE					
....PROSIMULIUM	--	--	--	6	--
....SIMULIUM	--	5	--	19	8
...TABANIDAE					
....TABANUS	2	2	--	--	--
...TIPULIDAE					
....ANTOCHA	6	--	--	--	--
....DICRANOTA	--	--	--	1	--
....HEXATOMA	3	7	1	--	7
....TIPULA	1	1	--	--	1
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	--	--	--	1	--
....PSEUDOCLOEON	2	--	--	--	--
...EPHEMERELLIDAE					
....EPHEMERELLA	--	--	--	--	--
...EPHEMERIDAE					
....HEXAGENIA	--	--	6	--	--
...HEPTAGENIIDAE					
....STENONEMA	4	7	--	17	4
...SIPHLONURIDAE					
....AMELETUS	--	--	6	--	--
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
..LEPIDOPTERA					
...TORTRICIDAE					
....ARCHIPS	--	--	--	--	--
..MEGALOPTERA					
...CORYDALIDAE					
....CHAULIODES	--	--	--	--	--
....CORYDALUS	3	1	--	--	--
.....C.CORNUTUS	--	--	--	--	--
....NIGRONIA	--	--	--	--	--
...SIALIDAE					
....SIALIS	--	1	--	--	1
..ODONATA					
...GOMPHIDAE					
....GOMPHUS	--	--	--	--	1
....LANTHUS	--	--	--	--	--
....OPHIOGOMPHUS	--	--	--	1	--
....UNKNOWN GENUS	--	--	3	--	--

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	AUG 31,78	OCT 6,78	NOV 2,78	JAN 7,79	JAN 8,79
TIME	1030	1000	1030	0900	1030
TOTAL COUNT	254	385	53	239	192
DIVERSITY: PHYLUM	0.0	0.0	0.0	0.0	0.0
.CLASS	0.1	0.0	0.0	0.0	0.0
..ORDER	2.0	2.0	2.0	1.6	1.9
...FAMILY	2.5	2.5	2.5	2.3	2.7
....GENUS	4.1	3.7	4.1	4.1	4.3
....GENUS-INSECTA	4.0	3.7	4.1	4.1	4.3
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..PROSOPORA					
...BRANCHIOBDELLIDAE					
....UNKNOWN GENUS	--	--	--	--	--
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	1	--	--	--	--
ARTHROPODA (ARTHROPODS)					
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
.CRUSTACEA					
..DECAPODA					
...ASTACIDAE					
....UNKNOWN GENUS	1	2	--	--	--
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	--	--	--	--	1
...ELMIDAE					
....ANCYRONYX	--	--	--	--	--
....DUBIRAPHIA	1	--	1	--	--
....GONIELMIS	--	3	--	--	--
....MICROCYLLOEPUS	--	--	--	--	1
....OPTIOSERVUS	43	67	1	14	22
....OULIMNIUS	29	35	--	4	9
....STENELMIS	15	31	1	1	9
...GYRINIDAE					
....DINEUTUS	--	--	--	--	--
...PTILODACTYLIDAE					
....ANCHYTARSUS	18	19	--	--	8
.....A.BICOLOR	--	--	--	5	--
..DIPTERA					
...CERATOPOGONIDAE=HELEIDAE					
....UNKNOWN GENUS	--	4	--	--	--
...CHIRONOMIDAE					
....ABLABESMYIA	--	--	--	--	--
....BRILLIA	--	--	1	--	--
....CHAETOCLADIUS	9	11	--	24	--
....CLADOTANYTARSUS	--	--	--	--	--
....CONCHAPELOPIA	7	--	--	9	--
....CONCHAPELOPIA,ARCTO,RHEO	--	2	--	--	9
....CONSTEMPELLINA	--	--	--	--	--
....CORYNONEURA	--	1	2	--	--
....CRICOTOPUS	7	--	--	3	--
....CRYPTOCHIRONOMUS	--	--	4	--	4
....DEMICRYPTOCHIRONOMUS	--	--	--	--	--
....EUKIEFFERIELLA	--	4	1	31	18
....LABRUNDINIA	1	--	--	--	--
....MICROPSECTRA	4	12	--	--	14
....MICROTENDIPES	3	--	4	3	2
....NANOCLADIUS	--	--	--	--	--
....ORTHOCLADIUS	2	--	--	--	--
....PARAMETRIOCNEMUS	--	--	--	--	--
....PARATANYTARSUS	12	--	--	--	--
....PENTANEURA	--	1	--	--	--
....PHAENOPSECTRA	--	--	7	--	--
....POLYPEDILUM	20	25	--	--	4
....PROCLADIUS	--	--	1	--	1

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	AUG 31,78	OCT 6,78	NOV 2,78	JAN 7,79	JAN 8,79
TIME	1030	1000	1030	0900	1030
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
..PLECOPTERA					
...CAPNIIDAE					
....ALLOCAPNIA	--	--	--	--	1
....PARACAPNIA	--	--	--	--	--
...CHLOROPERLIDAE					
....HASTAPERLA	--	--	--	2	--
....UNKNOWN GENUS	--	--	--	--	--
...LEUCTRIDAE					
....LEUCTRA	1	--	2	2	4
...NEMOURIDAE					
....NEMOURA	--	--	--	--	--
...PELTOPERLIDAE					
....PELTOPERLA	--	1	--	--	2
...PERLIDAE					
....(NEO)PHASGANOPHORA	1	--	--	8	--
....ACRONEURIA	25	29	--	8	18
....HESPEROPERLA	--	--	--	--	--
...PERLODIDAE					
....ISOGENUS	--	--	--	--	--
....ISOPERLA	--	--	--	--	--
...TAENIOPTERYGIDAE					
....TAENIOPTERYX	--	--	1	--	--
..TRICHOPTERA					
...CALAMOCERATIDAE					
....ANISOCENTROPUS	--	--	1	--	--
...HELICOPSYCHIDAE					
....HELICOPSYCHE	--	--	--	--	--
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	22	67	--	13	11
....HYDROPSYCHE	1	--	--	2	3
....SYMPHITOPSYCHE	--	--	--	--	--
...HYDROPTILIDAE					
....HYDROPTILA	--	--	1	--	--
...LEPTOCERIDAE					
....LEPTOCERUS	--	1	--	--	--
....UNKNOWN GENUS	--	--	--	--	--
...POLYCENTROPODIDAE					
....PHYLOCENTROPUS	--	--	3	--	--
...RHYACOPHILIDAE					
....RHYACOPHILA	--	--	--	3	2

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	MAR 1,79	MAR 29,79	MAR 29,79	APR 26,79
TIME	1400	1000	1200	1400
TOTAL COUNT	25	1009	722	656
DIVERSITY: PHYLUM	0.0	0.0	0.1	0.0
.CLASS	0.0	0.0	0.1	0.0
..ORDER	0.0	0.8	0.9	1.3
...FAMILY	0.0	1.7	1.4	2.4
....GENUS	2.1	3.4	2.8	3.3
....GENUS-INSECTA	2.1	3.4	2.8	3.3
ORGANISM	COUNT	COUNT	COUNT	COUNT
ANNELIDA				
.OLIGOCHAETA				
..PROSOPORA				
...BRANCHIOBDELLIDAE				
....UNKNOWN GENUS	--	--	5	--
..UNKNOWN ORDER				
...UNKNOWN FAMILY				
....UNKNOWN GENUS	--	--	--	--
ARTHROPODA (ARTHROPODS)				
.ARACHNIDA				
..HYDRACARINA				
...UNKNOWN FAMILY				
....UNKNOWN GENUS	--	4	--	--
.CRUSTACEA				
..DECAPODA				
...ASTACIDAE				
....UNKNOWN GENUS	--	--	1	--
.INSECTA				
..COLEOPTERA				
...DRYOPIDAE				
....HELICHUS	--	--	1	--
...ELMIDAE				
....ANCYRONYX	--	--	--	--
....DUBIRAPHIA	--	--	--	--
....GONIELMIS	--	--	--	--
....MICROCYLLOEPUS	--	--	--	--
....OPTIOSERVUS	--	--	--	--
....OULIMNIUS	--	--	--	8
....STENELMIS	--	2	21	8
...GYRINIDAE				
....DINEUTUS	--	--	--	--
...PTILODACTYLIDAE				
....ANCHYTARSUS	--	--	--	4
.....A.BICOLOR	--	3	2	--
..DIPTERA				
...CERATOPOGONIDAE=HELEIDAE				
....UNKNOWN GENUS	--	--	3	8
...CHIRONOMIDAE				
....ABLABESMYIA	--	--	--	--
....BRILLIA	--	--	--	--
....CHAETOCLADIUS	--	--	--	--
....CLADOTANYTARSUS	1	--	--	--
....CONCHAPELOPIA	--	17	21	--
....CONCHAPELOPIA,ARCTO,RHEO	--	--	--	4
....CONSTEMPELLINA	--	--	--	--
....CORYNONEURA	--	--	--	4
....CRICOTOPUS	--	--	--	8
....CRYPTOCHIRONOMUS	3	--	--	--
....DEMICRYPTOCHIRONOMUS	--	--	1	--
....EUKIEFFERIELLA	--	83	162	16
....LABRUNDINIA	--	3	--	4
....MICROPSECTRA	4	--	19	56
....MICROTENDIPES	--	--	7	--
....NANOCLADIUS	--	14	--	--
....ORTHOCLADIUS	--	41	--	--
....PARAMETRIOCNEMUS	2	--	--	--
....PARATANYTARSUS	--	--	--	--

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	MAR 1,79 1400	MAR 29,79 1000	MAR 29,79 1200	APR 26,79 1400
ORGANISM	COUNT	COUNT	COUNT	COUNT
....PENTANEURA	--	--	--	--
....PHAENOPSECTRA	12	--	3	--
....POLYPEDILUM	3	127	314	204
....PROCLADIUS	--	--	--	--
....PSECTROCLADIUS	--	--	--	--
....PSEUDOCHIRONOMUS	--	--	--	--
....RHEOCRICOTOPUS	--	119	--	--
....RHEOTANYTARSUS	--	--	--	4
....ROBACKIA	--	--	--	8
....SMITTIA	--	--	--	--
....STICTOCHIRONOMUS	--	--	--	--
....TANYTARSUS	--	210	13	--
....THIENEMANNIELLA	--	43	6	4
....TRICHOCLADIUS	--	--	18	--
....ZAVRELIA	--	--	--	--
...EMPIDIDAE				
....HEMERODROMIA	--	--	2	--
....UNKNOWN GENUS	--	--	--	4
...EPHYDRIDAE				
....UNKNOWN GENUS	--	--	--	--
...SIMULIIDAE				
....PROSIMULIUM	--	--	--	--
....SIMULIUM	--	215	53	140
...TABANIDAE				
....TABANUS	--	--	2	--
...TIPULIDAE				
....ANTOCHA	--	--	--	--
....DICRANOTA	--	--	1	4
....HEXATOMA	--	--	--	--
....TIPULA	--	--	--	4
..EPHEMEROPTERA				
...BAETIDAE				
....BAETIS	--	5	--	--
....PSEUDOCLOEON	--	--	--	--
...EPHEMERELLIDAE				
....EPHEMERELLA	--	2	--	--
...EPHEMERIDAE				
....HEXAGENIA	--	--	--	--
...HEPTAGENIIDAE				
....STENONEMA	--	39	32	24
...SIPHLONURIDAE				
....AMELETUS	--	--	--	--
...UNKNOWN FAMILY				
....UNKNOWN GENUS	--	--	--	4
..LEPIDOPTERA				
...TORTRICIDAE				
....ARCHIPS	--	--	--	8
..MEGALOPTERA				
...CORYDALIDAE				
....CHAULIODES	--	--	--	--
....CORYDALUS	--	--	--	--
.....C.CORNUTUS	--	--	--	--
....NIGRONIA	--	--	--	--
...SIALIDAE				
....SIALIS	--	2	--	--
..ODONATA				
...GOMPHIDAE				
....GOMPHUS	--	--	--	--
....LANTHUS	--	--	--	--
....OPHIOGOMPHUS	--	--	--	--
....UNKNOWN GENUS	--	2	--	--

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	MAR 1,79 1400	MAR 29,79 1000	MAR 29,79 1200	APR 26,79 1400
ORGANISM	COUNT	COUNT	COUNT	COUNT
..PLECOPTERA				
...CAPNIIDAE				
....ALLOCAPNIA	--	--	--	--
....PARACAPNIA	--	--	--	--
...CHLOROPERLIDAE				
....HASTAPERLA	--	24	8	--
....UNKNOWN GENUS	--	--	--	--
...LEUCTRIDAE				
....LEUCTRA	--	--	--	80
...NEMOURIDAE				
....NEMOURA	--	4	1	--
...PELTOPERLIDAE				
....PELTOPERLA	--	10	3	4
...PERLIDAE				
....(NEO)PHASGANOPHORA	--	9	--	4
....ACRONEURIA	--	9	14	8
....HESPEROPERLA	--	--	--	--
...PERLODIDAE				
....ISOGENUS	--	12	--	--
....ISOPERLA	--	--	--	16
...TAENIOPTERYGIDAE				
....TAENIOPTERYX	--	--	--	--
..TRICHOPTERA				
...CALAMOCERATIDAE				
....ANISOCENTROPUS	--	--	--	--
...HELICOPSYCHIDAE				
....HELICOPSYCHE	--	3	--	--
...HYDROPSYCHIDAE				
....CHEUMATOPSYCHE	--	5	9	12
....HYDROPSYCHE	--	--	--	--
....SYMPHITOPSYCHE	--	--	--	4
...HYDROPTILIDAE				
....HYDROPTILA	--	--	--	--
...LEPTOCERIDAE				
....LEPTOCERUS	--	--	--	--
....UNKNOWN GENUS	--	1	--	--
...POLYCENTROPODIDAE				
....PHYLOCENTROPUS	--	--	--	--
...RHYACOPHILIDAE				
....RHYACOPHILA	--	1	--	--

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12	10	11	14	14	14	19	16	18	19	16	17
2	11	9	10	15	14	14	16	14	15	19	17	18
3	11	9	10	16	15	16	14	14	14	17	15	16
4	9	9	9	17	16	17	28	14	24	15	15	15
5	10	8	9	17	16	17	24	20	22	14	14	14
6	9	8	9	16	16	16	20	17	18	14	14	14
7	9	8	9	16	15	15	17	15	16	19	14	18
8	9	9	9	15	14	14	22	14	16	17	15	16
9	9	8	9	14	13	14	28	23	25	15	14	15
10	9	9	9	13	13	13	22	19	20	14	14	14
11	9	9	9	13	12	13	19	17	18	14	13	13
12	9	9	9	13	12	13	17	16	16	14	13	14
13	16	9	11	13	12	13	15	15	15	14	14	14
14	16	12	14	13	13	13	15	14	14	14	13	14
15	12	11	11	13	13	13	14	14	14	13	13	13
16	11	10	10	14	13	13	14	13	14	13	13	13
17	11	10	10	21	13	17	15	14	14	13	13	13
18	11	10	10	22	19	21	14	14	14	13	13	13
19	11	10	10	19	15	17	13	13	13	15	13	13
20	11	10	10	15	14	15	13	13	13	18	16	18
21	11	10	11	14	13	13	16	14	16	18	17	17
22	11	11	11	13	13	13	16	15	15	17	15	16
23	12	11	11	13	13	13	15	14	14	16	15	15
24	12	11	11	13	12	13	16	13	14	16	15	16
25	12	12	12	13	12	12	16	15	16	15	15	15
26	13	12	13	12	12	12	15	14	14	15	14	14
27	13	12	13	13	13	13	14	13	13	15	14	14
28	13	13	13	13	13	13	13	13	13	15	14	15
29	13	13	13	24	13	17	13	12	13	14	14	14
30	14	13	13	24	20	22	16	13	15	14	14	14
31	15	14	14	---	---	---	16	16	16	14	14	14
MONTH	16	8	11	24	12	15	28	12	16	19	13	15

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14	13	13	--	--	--	12	11	11			
2	14	13	13	12	11	11	11	11	11			
3	14	13	14	14	11	12	14	12	13			
4	14	13	14	14	13	13	14	13	13			
5	14	13	13	17	14	16	14	13	13			
6	14	13	13	20	17	18	14	13	14			
7	17	14	15	25	20	22	14	12	13			
8	14	14	14	---	---	---	13	12	12			
9	13	13	13	---	---	---	---	---	---			
10	13	12	13	---	---	---	---	---	---			
11	12	12	12	---	---	---	---	---	---			
12	12	12	12	---	---	---	---	---	---			
13	12	11	11	---	---	---	---	---	---			
14	11	11	11	---	---	---	---	---	---			
15	11	11	11	---	---	---	---	---	---			
16	11	11	11	---	---	---	---	---	---			
17	12	10	10	---	---	---	---	---	---			
18	14	11	13	---	---	---	---	---	---			
19	13	11	12	---	---	---	---	---	---			
20	11	11	11	---	---	---	---	---	---			
21	11	10	10	---	---	---	---	---	---			
22	10	10	10	---	---	---	---	---	---			
23	10	10	10	---	---	---	---	---	---			
24	14	10	13	---	---	---	---	---	---			
25	13	12	12	---	---	---	---	---	---			
26	11	10	11	22	18	20	---	---	---			
27	10	10	10	19	18	19	---	---	---			
28	10	10	10	19	13	17	---	---	---			
29	---	---	---	12	10	10	---	---	---			
30	---	---	---	10	10	10	---	---	---			
31	---	---	---	11	10	10	---	---	---			
MONTH	17	10	12	25	10	15	14	11	13			

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1							---	---	---	---	---	--
2							---	---	---	---	---	--
3							---	---	---	---	---	--
4							---	---	---	---	---	--
5							---	---	---	---	---	--
6							---	---	---	10	6	8
7							---	---	---	11	9	10
8							---	---	---	10	9	10
9							11	10	10	10	9	9
10							10	10	10	9	9	9
11							13	10	11	9	9	9
12							15	13	14	9	9	9
13							13	11	12	20	9	15
14							11	10	11	19	14	16
15							--	--	--	14	11	12
16							10	9	10	12	10	11
17							10	9	10	18	10	13
18							10	9	10	18	14	16
19							10	9	10	14	11	13
20							10	9	10	18	12	13
21							10	10	10	18	15	17
22							10	10	10	15	14	14
23							10	10	10	14	12	13
24							13	10	12	13	11	11
25							12	11	11	13	11	11
26							11	10	10	12	11	11
27							11	10	10	11	10	11
28							11	10	10	12	10	11
29							11	10	10	11	10	10
30							11	10	10	10	10	10
31							--	--	--	---	---	---
MONTH							15	9	11	20	6	12

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.5	19.0	19.5	15.5	13.0	14.5	12.0	8.0	9.5	13.5	10.0	12.0
2	19.0	15.5	17.5	15.0	12.0	14.5	10.5	7.5	9.0	10.0	5.0	7.5
3	18.5	15.0	17.0	14.5	11.5	13.0	14.5	10.5	12.0	5.0	3.5	4.5
4	19.0	17.0	18.0	13.5	10.5	12.0	16.0	12.5	14.5	5.5	3.5	4.5
5	17.0	14.0	15.5	13.0	10.0	11.5	12.5	8.5	10.0	7.0	5.0	6.0
6	16.0	14.0	15.0	14.0	10.0	12.0	9.5	7.0	8.5	9.0	7.0	8.0
7	14.0	11.0	12.5	14.5	13.5	14.0	11.5	9.0	10.0	---	---	---
8	13.0	10.0	12.0	13.5	11.0	12.5	17.0	14.0	15.5	9.0	5.5	7.5
9	13.5	9.5	11.5	11.5	9.0	10.5	14.0	8.5	11.0	5.5	4.0	4.5
10	14.5	10.5	12.5	12.0	9.0	10.5	8.5	6.0	6.5	6.0	4.0	5.0
11	16.5	13.5	15.0	13.0	9.5	11.0	6.5	5.0	5.5	6.0	4.5	5.5
12	17.5	15.0	16.0	14.0	11.0	12.5	6.0	4.0	5.0	7.5	6.0	6.5
13	17.5	15.5	16.5	14.5	12.0	13.5	6.0	4.0	5.0	8.5	7.5	8.0
14	16.5	13.0	15.0	15.0	12.5	14.0	6.0	4.5	5.0	8.0	3.5	5.5
15	13.0	10.0	11.5	16.0	13.5	14.5	6.0	3.0	4.5	4.0	2.0	3.0
16	12.5	9.5	11.0	17.5	15.5	16.0	9.5	6.5	8.0	6.0	3.0	4.5
17	12.5	10.0	11.0	17.5	16.0	17.0	9.0	5.0	7.5	8.5	5.5	7.0
18	12.0	8.5	10.5	15.5	12.0	13.0	8.5	5.0	7.0	10.0	8.5	9.0
19	12.0	8.5	10.5	12.0	9.0	10.5	12.0	8.5	10.5	9.0	8.5	8.5
20	13.0	10.0	11.5	13.5	11.0	12.0	14.0	12.0	13.5	10.5	9.0	10.0
21	13.0	9.5	11.5	13.5	11.0	12.5	13.5	8.0	11.0	10.0	7.5	8.5
22	13.5	10.0	12.0	13.5	11.5	12.5	8.0	6.0	7.0	8.0	6.5	7.0
23	14.5	11.5	13.0	15.5	13.0	14.0	8.5	5.0	7.0	8.0	6.5	7.0
24	14.0	12.5	13.0	16.0	14.5	15.0	9.5	8.5	9.0	8.0	5.5	6.5
25	14.5	10.5	12.5	15.0	10.5	12.0	8.5	6.0	7.5	5.5	4.0	5.0
26	16.0	13.5	14.5	13.0	10.5	11.5	7.0	5.0	6.0	7.0	5.0	6.0
27	16.0	14.5	15.5	14.5	13.0	14.0	6.5	4.5	6.0	7.0	6.5	7.0
28	14.5	11.5	13.0	14.5	12.5	13.0	6.5	3.5	5.0	6.5	5.0	5.5
29	14.5	11.0	13.0	12.5	10.5	11.5	8.0	6.5	7.0	5.5	3.5	4.5
30	16.0	13.5	14.5	12.5	12.0	12.0	10.0	8.0	9.0	5.5	4.0	5.0
31	15.5	12.5	14.0	---	---	---	12.5	10.0	11.5	5.5	4.0	5.0
MONTH	20.5	8.5	13.5	17.5	9.0	13.0	17.0	3.0	8.5	13.5	2.0	6.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.0	2.0	3.0	12.5	10.0	11.0	17.5	14.5	16.0	17.0	14.0	15.5
2	4.5	2.0	3.0	13.0	9.5	11.5	16.0	15.5	16.0	17.0	16.0	16.0
3	5.5	4.0	5.0	13.0	12.5	12.5	16.0	14.5	15.0	---	---	---
4	7.0	5.5	6.5	13.0	11.0	12.5	16.0	13.5	15.0	---	---	---
5	6.0	4.5	5.5	11.5	9.5	10.5	15.0	11.5	13.5	---	---	---
6	5.5	4.5	4.5	11.0	8.5	10.0	15.5	10.5	13.0	---	---	---
7	5.5	5.5	5.5	11.0	8.5	10.0	16.5	12.0	14.0	---	---	---
8	---	---	---	11.0	9.0	10.0	16.5	13.5	14.5	---	---	---
9	---	---	---	11.0	7.5	9.5	16.5	13.5	15.5	---	---	---
10	---	---	---	11.0	10.0	10.5	15.5	12.0	14.0	---	---	---
11	---	---	---	10.5	8.5	9.5	18.0	15.0	16.5	---	---	---
12	---	---	---	11.5	7.0	9.5	17.5	16.0	16.5	---	---	---
13	---	---	---	12.0	9.0	10.5	17.5	15.5	16.5	---	---	---
14	---	---	---	14.0	11.5	12.5	17.0	14.0	15.5	---	---	---
15	---	---	---	11.5	9.0	10.5	17.0	13.5	15.0	---	---	---
16	---	---	---	11.5	9.0	10.0	17.0	13.5	15.0	---	---	---
17	---	---	---	13.5	10.0	11.5	17.5	14.0	16.0	---	---	---
18	---	---	---	14.5	11.0	12.5	18.0	15.0	16.5	---	---	---
19	---	---	---	15.5	11.5	13.5	17.5	15.0	16.0	---	---	---
20	---	---	---	15.5	12.5	14.0	18.0	14.5	16.5	---	---	---
21	---	---	---	15.0	13.5	14.5	17.0	16.5	16.5	21.0	19.0	20.5
22	---	---	---	15.0	13.0	14.0	17.5	16.5	17.0	21.0	19.0	20.0
23	---	---	---	15.5	13.5	14.5	17.5	16.5	17.0	20.5	19.0	20.0
24	---	---	---	13.5	11.0	12.5	17.5	17.0	17.0	19.5	17.5	18.5
25	---	---	---	12.0	9.0	10.5	17.5	17.0	17.0	17.5	15.0	16.0
26	10.0	8.5	9.5	12.0	7.5	10.0	18.5	16.5	17.0	17.0	13.0	15.5
27	10.0	7.0	8.5	14.0	9.0	11.5	17.0	14.5	16.0	16.5	15.5	16.0
28	10.5	8.0	9.5	15.5	10.5	13.0	17.0	14.5	15.5	18.5	16.5	17.5
29	---	---	---	16.0	12.0	14.0	15.5	13.0	14.5	19.5	18.0	18.5
30	---	---	---	16.5	13.0	14.5	17.0	13.5	15.0	20.0	18.5	19.0
31	---	---	---	15.5	14.5	15.0	---	---	---	20.5	19.0	20.0
MONTH	10.5	2.0	6.0	16.5	7.0	12.0	18.5	10.5	15.5	21.0	13.0	18.0

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.0	19.5	20.0	22.5	19.0	21.0	25.5	23.0	24.0	24.5	22.5	23.5
2	21.5	19.5	21.0	23.0	20.0	21.5	24.5	23.0	24.0	23.0	22.5	23.0
3	21.5	20.5	21.0	23.0	21.0	22.0	25.0	23.0	24.0	23.5	22.0	23.0
4	21.0	19.5	20.5	24.0	21.5	22.5	25.0	23.0	24.0	24.0	22.5	23.0
5	21.0	18.5	20.0	24.5	22.0	23.0	25.0	23.0	24.0	24.0	22.0	23.0
6	21.5	20.5	20.5	24.5	22.5	23.5	25.0	22.5	24.0	24.0	22.0	23.0
7	22.5	20.5	21.0	22.5	22.0	22.5	25.5	22.5	24.0	23.5	21.5	22.5
8	23.0	21.0	22.0	22.0	21.5	21.5	25.0	23.0	24.0	23.0	21.0	22.0
9	23.5	21.5	22.5	22.5	21.5	22.0	25.0	22.5	24.0	22.5	20.5	21.5
10	23.5	21.0	22.0	22.5	21.5	22.0	25.0	23.0	24.0	22.5	20.5	21.5
11	21.5	19.5	20.5	22.5	22.0	22.0	24.0	23.0	23.5	22.0	20.0	21.0
12	20.5	17.5	19.0	24.0	22.0	23.0	23.5	22.0	22.5	22.0	20.5	21.5
13	20.5	18.0	19.5	24.0	22.0	23.0	22.5	19.5	21.0	22.5	22.0	22.5
14	21.0	18.0	19.5	24.5	22.0	23.0	22.0	19.5	21.0	22.0	21.0	22.0
15	21.0	18.5	19.5	24.5	22.5	23.5	22.5	19.5	21.0	21.0	19.0	20.0
16	20.5	18.0	19.5	25.0	22.5	23.5	23.0	21.0	22.0	20.5	19.0	20.0
17	21.0	18.0	19.5	25.5	23.0	24.0	22.5	20.0	21.5	20.5	20.0	20.5
18	22.0	19.0	20.5	24.5	23.0	23.5	23.0	20.5	22.0	21.5	20.5	21.0
19	22.5	19.5	21.0	23.5	22.0	23.0	24.0	21.5	22.5	21.5	21.0	21.0
20	23.0	20.0	21.5	23.0	22.5	22.5	24.5	21.5	23.0	21.5	21.0	21.0
21	21.5	21.0	21.5	23.0	22.5	22.5	24.5	22.0	23.5	22.5	21.5	22.0
22	22.5	20.0	21.0	24.0	21.5	23.0	24.5	22.5	23.5	22.0	20.5	21.0
23	22.0	20.5	21.0	24.5	23.0	23.5	23.5	21.5	22.5	20.5	19.0	20.0
24	23.0	21.0	22.0	24.0	23.5	23.5	24.0	22.5	23.5	20.0	19.0	19.5
25	22.0	20.0	20.5	23.5	23.0	23.5	24.0	23.0	23.5	20.5	19.0	19.5
26	21.0	19.0	20.0	24.0	22.5	23.0	24.0	23.0	23.5	20.0	18.5	19.5
27	21.5	19.0	20.0	24.5	23.0	23.5	24.5	22.5	23.5	21.0	20.0	20.5
28	21.5	18.5	20.0	25.0	23.0	24.0	24.0	22.5	23.5	21.5	20.0	20.5
29	22.0	19.5	21.0	25.0	24.0	24.5	24.0	22.0	23.0	20.5	18.5	19.5
30	23.5	21.0	22.0	25.0	22.5	24.0	24.5	22.5	23.5	20.5	18.5	19.5
31	---	---	---	25.5	23.0	24.0	24.0	22.5	23.0	---	---	---
MONTH	23.5	17.5	20.5	25.5	19.0	23.0	25.5	19.5	23.0	24.5	18.5	21.5

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Time	Streamflow, instantaneous (cfs)	Sediment, suspended (mg/L)
Oct			
01.....	0625	4.0	1
02.....	0620	3.6	5
03.....	0620	3.6	3
04.....	0620	3.5	1
05.....	0615	3.3	1
05.....	1500	3.6	1
06.....	0525	3.3	1
06.....	1030	3.5	5
07.....	0525	3.3	5
08.....	0520	3.5	3
09.....	0520	3.5	1
10.....	0520	3.5	7
11.....	0515	3.5	3
12.....	0515	3.5	3
13.....	0515	3.3	5
14.....	0510	5.9	3
15.....	0510	4.2	1
16.....	0510	4.0	2
18.....	0500	4.0	1
19.....	0455	3.8	2
20.....	0455	3.8	2
21.....	0455	3.8	1
22.....	0450	3.8	2
23.....	0450	3.8	2
24.....	0450	3.8	1
25.....	0445	4.2	1
26.....	0445	4.2	1
27.....	0445	4.0	1
28.....	0440	4.0	1
29.....	0440	3.6	1
30.....	0440	3.6	1
31.....	0435	3.6	1
Nov			
01.....	0435	3.6	1
02.....	0435	3.5	1
02.....	1200	3.6	1
03.....	0435	3.5	6
04.....	0435	3.5	1
05.....	0435	3.8	1
06.....	0435	3.8	1
07.....	0430	4.2	3
07.....	1025	5.9	4
08.....	0430	5.0	3
09.....	0430	4.2	2
10.....	0425	4.2	1
11.....	0425	4.4	2
12.....	0425	4.2	1
13.....	0420	4.2	2
14.....	0420	4.2	2
15.....	0420	4.4	1
16.....	0420	4.4	2
17.....	0415	4.8	3
18.....	0415	7.5	5
19.....	0415	5.0	2
20.....	0415	4.4	3
21.....	0425	4.2	3
22.....	0405	4.2	1
23.....	0405	4.8	3
24.....	0405	4.6	9
25.....	0400	4.4	5
26.....	0400	4.4	4
27.....	0400	5.2	5
28.....	0400	5.6	6
29.....	0355	4.8	7
29.....	1230	28	83
29.....	1640	31	56
30.....	0355	10	9
Dec			
01.....	0355	5.9	3
02.....	0350	5.2	6
03.....	0350	5.0	14
04.....	0225	32	101
04.....	0350	70	339
04.....	1020	30	80
04.....	1255	19	43
04.....	1300	19	25
04.....	1310	18	23
05.....	0345	14	8
06.....	0345	7.0	5
07.....	0345	5.9	5
07.....	1355	5.9	3
08.....	0320	5.9	1
08.....	1820	25	63
08.....	2355	83	235
09.....	0310	130	166
09.....	1140	35	32
10.....	0315	13	4
11.....	0315	8.8	1
14.....	0310	6.4	6
15.....	0305	6.4	1
16.....	0305	6.1	3
17.....	0305	8.8	2
18.....	0305	6.7	1
19.....	0300	6.7	1
20.....	0300	6.7	2
21.....	0300	16	28
22.....	0255	8.8	1
23.....	0255	7.8	1
24.....	0255	7.5	1
25.....	0255	12	4
26.....	0250	9.1	2
27.....	0250	8.4	1
28.....	0250	8.1	1
29.....	0245	8.1	1
30.....	0245	18	33
31.....	0245	18	8
Jan			
01.....	0240	18	3
02.....	0240	47	20
02.....	0615	38	11
07.....	0225	30	151
08.....	1045	31	8
12.....	1053	16	4
13.....	2140	14	3
14.....	2135	13	2
15.....	2135	12	2
16.....	2135	12	2
17.....	2135	12	1
18.....	2130	12	1
19.....	2125	33	33
19.....	2130	34	51
20.....	0405	96	180
20.....	0505	148	427
20.....	2130	141	63
23.....	1550	30	7
24.....	0240	51	15
24.....	0340	48	10
24.....	0440	45	9
24.....	0535	43	8
24.....	0635	41	7
24.....	0735	39	7
24.....	0835	38	7

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Time	Streamflow, instantaneous (cfs)	Sediment, suspended (mg/L)
Jan			
24.....	0935	37	6
24.....	1135	36	6
24.....	1235	35	5
24.....	1335	34	6
24.....	1435	34	5
24.....	1530	33	3
Feb			
07.....	1135	25	4
07.....	1525	23	4
08.....	0335	19	2
08.....	1055	18	2
09.....	1525	16	3
10.....	1525	15	3
12.....	1520	14	4
14.....	1515	13	4
15.....	1515	13	5
16.....	1515	12	3
17.....	1515	12	3
18.....	0735	31	32
18.....	1510	25	6
19.....	1510	16	4
20.....	1510	14	3
21.....	1505	16	2
22.....	1505	14	3
23.....	1505	22	10
24.....	0030	31	63
24.....	0215	65	151
24.....	1100	65	36
25.....	0115	62	80
25.....	0215	77	76
25.....	1005	65	32
25.....	1500	49	17
26.....	1530	31	2
27.....	1445	23	0
28.....	1445	21	1
Mar			
01.....	0001	49	23
01.....	1155	28	2
02.....	1440	21	1
03.....	0355	50	20
03.....	1330	274	319
03.....	1415	314	398
03.....	1430	324	440
03.....	1440	332	432
03.....	1505	349	449
03.....	1755	560	464
03.....	1805	576	456
03.....	1902	592	442
03.....	1905	593	495
04.....	0037	478	808
04.....	0040	478	693
04.....	0210	419	478
04.....	0310	368	331
04.....	0810	194	150
04.....	1115	146	83
05.....	1434	57	18
07.....	1434	33	8
08.....	0350	30	4
08.....	1435	28	4
09.....	1430	24	6
10.....	1430	24	4
10.....	1915	30	4
11.....	1430	22	3
12.....	1425	19	1
19.....	1235	14	2
20.....	1405	14	3
21.....	1405	15	3
Mar			
22.....	1405	14	3
23.....	0515	60	725
23.....	1325	66	61
23.....	1405	59	39
24.....	0005	28	9
24.....	1400	22	5
25.....	1400	18	4
26.....	1400	16	2
27.....	1355	15	2
29.....	1410	18	3
30.....	1405	18	3
31.....	1405	20	5
Apr			
01.....	1405	18	5
02.....	1400	18	5
02.....	2245	29	27
03.....	0240	61	57
03.....	0810	63	42
03.....	1400	41	14
04.....	0210	61	66
04.....	0905	65	29
04.....	1400	48	13
05.....	1355	29	8
06.....	1355	22	3
07.....	1355	19	3
08.....	1340	28	15
12.....	0924	129	90
12.....	0938	126	72
12.....	1005	134	54
12.....	1127	244	110
12.....	1145	262	371
12.....	1151	272	599
12.....	1155	279	433
12.....	1158	303	553
13.....	1000	1060	115
13.....	1122	1008	85
13.....	1204	960	67
17.....	1539	38	9
18.....	1350	34	8
19.....	1345	31	7
20.....	1345	28	6
24.....	1340	32	11
25.....	1335	23	6
26.....	1425	26	5
27.....	1341	22	4
28.....	1320	20	4
29.....	1320	19	4
30.....	1320	19	3
May			
01.....	1315	18	2
02.....	1315	18	5
03.....	1315	19	4
04.....	0835	25	7
04.....	1250	39	24
04.....	1310	41	29
05.....	0035	25	8
05.....	1310	20	5
06.....	1310	18	4
07.....	1305	17	4
08.....	1305	17	4
09.....	1305	16	4
10.....	1305	16	4
11.....	1300	16	4
12.....	0400	30	83
12.....	1300	34	21
12.....	1650	25	13
13.....	1300	22	7

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Time	Streamflow, instantaneous (cfs)	Sediment, suspended (mg/L)
May			
14.....	1255	18	5
15.....	1255	16	5
16.....	1255	14	4
17.....	1250	14	7
18.....	1250	14	4
19.....	1250	15	4
20.....	1250	14	4
21.....	0950	13	4
21.....	1340	13	6
22.....	1335	12	13
23.....	1535	13	4
24.....	1335	14	5
25.....	1330	12	6
26.....	1330	12	6
27.....	1330	13	3
28.....	1325	16	4
29.....	0110	33	80
29.....	0735	32	30
29.....	1325	20	11
29.....	1500	19	20
29.....	2240	32	28
30.....	1325	18	7
31.....	0920	18	7
31.....	1320	17	7
Jun			
01.....	1320	14	5
02.....	1320	13	4
02.....	1830	11	6
03.....	1320	13	5
04.....	1315	13	1
05.....	1605	11	4
06.....	1315	12	2
06.....	1925	11	2
07.....	1615	11	3
10.....	0610	9.5	4
11.....	1305	11	2
11.....	1420	11	1
12.....	0525	9.5	4
13.....	0725	9.5	1
14.....	0710	9.5	3
15.....	1300	9.5	2
16.....	1300	9.5	1
17.....	1300	9.5	3
18.....	1255	8.8	1
19.....	1255	8.4	2
20.....	1255	8.1	1
21.....	1255	8.1	3
22.....	1250	8.8	1
23.....	0520	9.1	7
23.....	0805	28	100
23.....	1250	30	32
24.....	1250	11	5
24.....	1410	11	4
25.....	0955	9.5	5
26.....	0455	9.5	6
27.....	0930	8.8	5
27.....	1255	8.8	10
28.....	1255	8.8	11
29.....	1250	8.4	8
30.....	1250	8.1	7
Jul			
01.....	1250	7.8	11
02.....	2010	9.5	12
03.....	1245	9.1	7
11.....	1615	18	15
12.....	1430	11	7
13.....	1235	9.5	6
14.....	1230	9.1	6
Jul			
15.....	1230	8.4	5
16.....	1230	7.8	5
17.....	1230	7.5	4
18.....	1225	7.5	4
19.....	1225	8.1	5
20.....	0145	9.8	5
20.....	1225	20	41
20.....	1445	30	60
21.....	0105	32	36
21.....	1225	16	10
22.....	1220	12	7
22.....	1615	11	6
24.....	1050	9.8	13
25.....	0650	12	7
25.....	1140	11	6
26.....	0915	11	3
26.....	0930	10	4
26.....	1220	10	2
27.....	1035	9.1	5
Aug			
02.....	1325	7.8	4
03.....	0735	7.2	4
04.....	0735	6.7	4
05.....	0735	6.4	3
06.....	0730	6.1	2
07.....	0730	5.9	3
08.....	0730	5.6	3
09.....	0725	5.4	3
10.....	0725	5.4	3
11.....	1700	9.8	11
11.....	2315	32	87
12.....	0055	36	67
12.....	1150	13	10
12.....	1655	9.5	8
13.....	1655	6.4	4
23.....	1200	5.2	5
23.....	1335	5.0	3
23.....	2230	4.4	2
24.....	0210	9.5	15
24.....	1305	11	8
24.....	2230	6.7	5
25.....	2225	5.9	2
26.....	2225	6.1	2
27.....	2225	5.6	7
28.....	2220	5.2	2
29.....	1605	5.6	4
29.....	2220	4.8	2
30.....	1915	13	4
30.....	1950	51	1400
30.....	2000	67	3270
30.....	2220	108	580
30.....	2315	85	217
31.....	0430	34	91
31.....	1430	11	25
Sep			
01.....	2120	8.8	16
01.....	2210	21	430
02.....	0535	33	45
03.....	0015	11	11
06.....	1025	5.6	6
12.....	1620	5.2	4
12.....	2125	5.0	2
13.....	0745	11	15
13.....	0935	34	75
13.....	1050	72	306
13.....	1250	78	194
13.....	1325	74	139
13.....	2005	34	42

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Time	Streamflow, instantaneous (cfs)	Sediment, suspended (mg/L)	Date	Time	Streamflow, instantaneous (cfs)	Sediment, suspended (mg/L)
Sep				Sep			
14.....	0855	13	8	21.....	0120	67	48
17.....	0820	12	10	21.....	1535	37	10
17.....	1420	39	33	22.....	0120	22	11
17.....	1535	72	130	22.....	1940	13	4
17.....	1900	79	79	24.....	0120	9.8	12
18.....	0405	36	20	25.....	0115	9.5	3
19.....	1055	13	4	26.....	0115	8.4	3
19.....	1605	12	4	27.....	0115	8.4	1
19.....	1610	12	3	28.....	0115	10	1
20.....	0125	11	2	29.....	0110	8.1	3
20.....	1135	9.8	3	30.....	0110	7.2	2
20.....	1825	13	4				
20.....	1955	35	7				

02463900 BEAR CREEK NEAR SAMANTHA, AL

LOCATION.--Lat 33°32'33", long 87°33'43", in SW¼NW¼ sec. 26, T. 17 S., R. 10 W., Tuscaloosa County, Hydrologic Unit 03160112, on downstream side of county road bridge, 0.5 mi (0.8 km) downstream from Dry Branch, 5.1 mi (8.2 km) northwest of Samantha, and 2.7 mi (4.3 km) upstream from mouth.

DRAINAGE AREA.--15.05 mi^2 (38.98 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft (82 m), from topographic map.

REMARKS.--Water-discharge record good above 10 ft^3/s (0.28 m^3/s), fair between 1.0 ft^3/s (0.028 m^3/s) and 10 ft^3/s (0.28 m^3/s) and poor below 1.0 ft^3/s (0.028 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,360 ft^3/s (237 m^3/s) Apr. 12, 1979, gage height 23.24 ft (7.084 m) from rating curve extended above 2,600 ft^3/s (73.6 m^3/s) on basis of slope-conveyance study; minimum, no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	0845	426	12.1	8.41	2.563	July 20	1230	443	12.5	8.55	2.606
Mar. 3	2000	3,020	85.5	18.08	5.511	Sept. 13	1315	424	12.0	8.40	2.560
Apr. 12	unknown	*8,360	237	*23.24	7.084						

Minimum discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	129	24	63	58	6.3	20	.40	4.4	12
2	.00	.00	.00	66	20	49	52	6.1	11	.36	4.4	54
3	.00	.00	.00	28	21	1060	270	8.0	7.6	.40	3.7	16
4	.00	.00	.04	19	18	580	184	10	6.2	.44	3.2	9.5
5	.00	.00	.04	15	15	142	103	12	4.4	.44	2.6	5.0
6	.00	.00	.00	14	16	97	60	9.0	9.0	2.1	2.4	3.3
7	.00	.00	.00	185	90	68	41	6.9	10	3.8	2.1	2.8
8	.00	.00	.36	71	65	47	37	5.9	5.5	1.1	1.9	2.4
9	.00	.00	19	44	44	35	34	5.3	3.8	1.3	1.6	1.8
10	.00	.00	7.4	31	33	33	27	4.9	3.2	1.2	1.5	1.7
11	.00	.00	4.2	23	28	32	23	4.2	2.8	1.3	1.3	1.4
12	.00	.00	3.5	20	24	27	2900	5.6	2.0	1.6	2.0	1.2
13	.00	.00	3.2	18	21	24	1900	5.9	1.7	2.9	1.5	158
14	.00	.00	2.5	14	19	22	500	4.9	1.3	5.0	1.3	90
15	.00	.00	2.5	11	17	18	200	3.8	1.1	2.4	1.1	31
16	.00	.00	2.6	10	15	16	73	3.3	1.0	1.9	.97	17
17	.00	.00	2.6	9.8	13	16	51	2.7	.84	1.6	.81	20
18	.00	.00	2.6	10	37	15	37	2.5	.78	1.4	.75	63
19	.00	.00	2.6	19	45	14	30	2.2	.73	1.8	.65	67
20	.00	.00	2.5	722	40	13	24	2.1	.68	150	.64	59
21	.00	.00	4.8	490	40	14	20	1.9	.58	135	.55	245
22	.00	.00	5.8	162	37	12	18	1.7	.58	78	.51	119
23	.00	.00	4.8	117	51	41	17	1.6	.58	49	.44	50
24	.00	.00	4.4	123	191	37	17	1.7	.58	32	.43	29
25	.00	.00	5.2	75	155	29	16	1.6	.48	17	.46	20
26	.00	.00	5.0	54	94	22	15	1.3	.40	14	2.1	15
27	.00	.00	4.4	60	69	19	12	1.3	.40	12	.93	14
28	.00	.00	3.9	44	54	17	10	8.7	.36	9.3	.68	12
29	.00	.00	3.6	35	---	15	8.2	52	.40	8.4	.49	8.9
30	.00	.00	23	33	---	13	7.3	22	.40	6.2	1.4	7.1
31	.00	---	29	32	---	15	---	41	---	5.1	4.8	---
TOTAL	.00	.00	149.54	2683.8	1296	2605	6744.5	246.4	98.39	547.44	51.61	1136.1
MEAN	.000	.000	4.82	86.6	46.3	84.0	225	7.95	3.28	17.7	1.66	37.9
MAX	.00	.00	29	722	191	1060	2900	52	20	150	4.8	245
MIN	.00	.00	.00	9.8	13	12	7.3	1.3	.36	.36	.43	1.2
CFSM	.000	.000	.32	5.75	3.08	5.58	15.0	.53	.22	1.18	.11	2.52
IN.	.00	.00	.37	6.63	3.20	6.44	16.67	.61	.24	1.35	.13	2.81

CAL YR 1978 TOTAL 5143.00 MEAN 14.1 MAX 300 MIN .00 CFSM .94 IN 12.71
WTR YR 1979 TOTAL 15558.78 MEAN 42.6 MAX 2900 MIN .00 CFSM 2.83 IN 38.46

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1976 to current year.
WATER TEMPERATURES: November 1976 to current year.
SUSPENDED SEDIMENT: December 1976 to current year.

INSTRUMENTATION.--Specific conductance recorder since November 1976; temperature recorder since November 1976; automatic sediment sampler since December 1976.

REMARKS.--Interruptions in specific conductance for Oct. 1-Dec. 8, Jan. 4-Feb. 25, Apr. 13-15, May 25-July 6, 8, 10, 24-Aug. 1, Aug. 10-15, Sept. 13-25, and temperature data for Oct. 1-Dec. 9, Jan. 4-Feb. 22, Feb. 27-Mar. 13, Apr. 13-16, May 3-6, July 18 were due to malfunctions of the equipment. Also during periods of no flow data for conductance and temperature will not appear (see stream discharge records). Sediment samples are collected once daily during normal flow and with change in stage of one quarter of a foot. Samples are collected manually (EWI method) during selected events.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum (water year 1978), 57 micromhos July 10, 1978; minimum (water year 1978), 23 micromhos May 9, 1978.
WATER TEMPERATURES: Maximum (water year 1978), 30.5°C July 9, 1978; minimum (water year 1978) 1.5°C Feb. 9, 22-24, 1978.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27°C July 17, Aug. 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)
DEC											
05...	1215	.03	102	6.8	9.0	--	6.0	--	--	.0	.0
JAN											
04...	1315	18	30	6.3	5.0	15	--	7	3	.0	.0
06...	1000	15	28	7.3	4.0	--	12.4	--	--	.0	.0
FEB											
28...	1300	51	23	6.6	11.0	--	10.4	--	--	.0	.0
MAR											
04...	0145	1870	22	5.5	13.0	--	--	--	--	--	--
26...	1400	22	26	6.7	11.5	--	11.2	--	--	.0	.0
APR											
26...	1030	15	27	6.6	17.5	10	9.2	8	2	.0	.0
MAY											
24...	1330	1.7	38	6.8	20.0	--	8.3	--	--	.0	.0
JUN											
06...	1130	3.9	29	6.9	20.0	--	--	--	--	--	--
JUL											
31...	1030	5.4	30	5.9	24.0	--	7.5	--	--	--	--
AUG											
29...	0900	.51	46	7.0	23.0	20	8.3	16	0	.0	.0

DATE	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)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFIDE DIS-SOLVED (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
DEC											
05...	--	--	--	--	52	0	--	5.4	--	--	--
JAN											
04...	1.0	1.0	1.9	.6	4	0	.0	4.9	2.2	.0	7.9
06...	--	--	--	--	12	0	--	4.5	--	--	--
FEB											
28...	--	--	--	--	10	0	--	2.9	--	--	--
MAR											
04...	--	--	--	--	2	0	--	--	--	--	--
26...	--	--	--	--	8	0	--	4.4	--	--	--
APR											
26...	1.3	1.1	1.4	.7	7	0	.0	3.6	1.7	.0	8.3
MAY											
24...	--	--	--	--	12	0	--	3.5	--	--	--
JUN											
06...	--	--	--	--	12	0	--	3.2	--	--	--
JUL											
31...	--	--	--	--	11	0	--	3.0	--	--	--
AUG											
29...	3.3	2.0	2.2	1.4	24	0	.0	3.1	2.0	.0	7.8

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO. TOTAL (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
DEC											
05...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	22	.04	1.49	--	--	--	--	.00	--	200
06...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	--	--	--	--	--	--	--	--	--	--	--
MAR											
04...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
APR											
26...	28	28	.04	1.19	.03	.00	.06	.40	.00	.00	170
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
JUL											
31...	--	--	--	--	--	--	--	--	--	--	170
AUG											
29...	--	40	.05	.06	--	--	--	--	--	--	90

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ALUM-INUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
DEC											
05...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	30	3300	410	--	120	19000	10	10	0	260
06...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	--	--	--	--	--	--	--	--	--	--	--
MAR											
04...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
APR											
26...	150	20	--	320	260	60	--	--	0	20	--
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	610	550	60	--	20	0	20	--
JUL											
31...	140	30	--	540	420	120	--	40	0	40	--
AUG											
29...	80	10	--	740	340	400	--	30	10	20	--

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BORON, TOTAL RECOV-ERABLE (UG/L AS B)	BORON, SUS-PENDED RECOV-ERABLE (UG/L AS B)	BORON, DIS-SOLVED (UG/L AS B)	BORON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)
JAN 04...	1	1	0	170	140	30	0	--	16	--	10
JUL 31...	1	1	--	--	--	20	--	0	0	1	--

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)
JAN 04...	10	9	1	10	5	5	0	10	2	0	2
JUL 31...	--	0	30	--	0	0	0	--	8	1	7

DATE	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)
JAN 04...	10	--	--	--	10	0	0	0	<.5	.0	<.5
JUL 31...	--	1	1	0	--	0	0	0	<.5	<.0	<.5

DATE	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR)	STRON-TIUM, SUS-PENDED RECOV. (UG/L AS SR)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	STRON-TIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
JAN 04...	.03	0	0	0	0	--	0	50	10	30
JUL 31...	--	0	0	0	--	30	20	10	--	20

DATE	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, INOR-GANIC, TOTAL (MG/L AS C)	PHENOLS (UG/L)
JAN 04...	30	0	20	<.4	1.1	1.1	--	2.8	2.8	2
JUL 31...	0	20	--	<.5	1.7	1.7	.02	--	--	1

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DIATOM SPECIES ENUMERATION

FEB. 27, 1978

ORGANISM NAME	CELLS/CM2	PER CENT
BACILLARIOPHYTA		
.BACILLARIOPHYCEAE		
..ACHNANTHALES		
...ACHNANTHACEAE		
....ACHNANTHES		
.....A.MINUTISSIMA V.MACROCEP	350	30
..BACILLARIALES		
...NITZSCHIACEAE		
....NITZSCHIA		
.....N.PALEA		0
..EUNOTIALES		
...EUNOTIACEAE		
....EUNOTIA		
.....E.CURVATA	15	1
.....E.FLEXUOSA	25	2
.....E.PECTINALIS V.MINOR	89	8
..FRAGILARIALES		
...FRAGILARIACEAE		
....FRAGILARIA		
.....F.VAUCHERIAE	220	19
....MERIDION		
.....M.CIRCULARE	10	1
....SYNEDRA		
.....S.ULNA	260	23
..NAVICULALES		
...CYMBELLACEAE		
....CYMBELLA		
.....C.MICROCEPHALA		0
...GOMPHONEMACEAE		
....GOMPHONEMA		
.....G.MANUBRIUM	5	0
.....G.PARVULUM	160	14
...NAVICULACEAE		
....NAVICULA		
.....N.CRYPTOCEPHALA V.VENETA	10	1

DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.8
FAMILY 1.9
GENERA 2.3
SPECIES 2.5

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	APR 26,78 0830	JUN 2,78 0945	JUL 11,78 1110	DEC 5,78 1200	JAN 4,79 1315
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
....THIENEMANNIELLA	5	2	--	--	--
....TRICHOCLADIUS	11	--	--	--	--
....TRISSOCLADIUS	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--
....ZAVRELIMYIA	1	--	--	--	--
...EMPIDIDAE					
....HEMERODROMIA	--	--	1	--	--
....UNKNOWN GENUS	--	--	--	--	--
...SIMULIIDAE					
....PROSIMULIUM	--	--	--	--	--
....SIMULIUM	98	53	27	--	--
...TABANIDAE					
....TABANUS	2	--	--	--	--
...TIPULIDAE					
....DICRANOTA	--	--	--	--	--
....HEXATOMA	--	--	--	--	--
....ORMOSIA	--	--	--	--	--
....TIPULA	--	--	--	--	3
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	--	--	--	--	--
....PSEUDOCLOEON	--	--	--	--	--
...CAENIDAE					
....CAENIS	--	--	--	--	2
...EPHEMERELLIDAE					
....EPHEMERELLA	15	--	--	--	--
...HEPTAGENIIDAE					
....RHITHROGENA	--	--	--	--	--
....STENACRON	11	--	--	--	--
....STENONEMA	--	7	62	--	--
....UNKNOWN GENUS	--	--	--	--	--
...LEPTOPHLEBIIDAE					
....PARALEPTOPHLEBIA	--	--	--	--	--
...SIPHLONURIDAE					
....AMELETUS	--	--	--	--	--
....ISONYCHIA	--	--	--	--	--
..HEMIPTERA					
...VELIIDAE					
....UNKNOWN GENUS	--	--	--	--	--
..LEPIDOPTERA					
...NOCTUIDAE					
....UNKNOWN GENUS	--	--	--	--	--
...PYRALIDIDAE					
....SYNCLITA	1	--	--	--	--
..MEGALOPTERA					
...CORYDALIDAE					
....CHAULIODES	--	--	4	--	--
....CORYDALUS	--	--	--	--	--
.....C.CORNUTUS	--	--	--	--	1
....NIGRONIA	--	3	10	--	--
..ODONATA					
...GOMPHIDAE					
....LANTHUS	--	--	--	1	--
....UNKNOWN GENUS	1	3	--	--	--
..PLECOPTERA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
...CAPNIIDAE					
....ALLOCAPNIA	--	--	--	--	--
...CHLOROPERLIDAE					
....HASTAPERLA	7	--	12	--	72
...LEUCTRIDAE					
....LEUCTRA	--	--	--	--	--
...NEMOURIDAE					
....NEMOURA	--	--	--	--	--
...PERLIDAE					
....(NEO)PHASGANOPHORA	21	17	--	--	--
....ACRONEURIA	3	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--
...PERLODIDAE					
....ISOGENUS	--	--	--	--	--
...TAENIOPTERYGIDAE					
....TAENIOPTERYX	--	--	--	--	--
..TRICHOPTERA					
...BRACHYCENTRIDAE					
....MICRASEMA	1	--	--	--	--
...GLOSSOSOMATIDAE					
....AGAPETUS	--	--	--	--	--
...HYDROPSYCHIDAE					

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	APR 26,78	JUN 2,78	JUL 11,78	DEC 5,78	JAN 4,79
TIME	0830	0945	1110	1200	1315
TOTAL COUNT	437	306	375	22	255
DIVERSITY: PHYLUM	0.0	0.0	0.0	0.0	0.0
.CLASS	0.0	0.1	0.1	0.0	0.1
..ORDER	1.4	2.1	2.3	1.1	1.6
...FAMILY	2.2	2.6	2.8	1.1	1.7
....GENUS	3.3	2.9	3.2	2.8	2.4
....GENUS-INSECTA	3.3	2.8	3.2	2.8	2.3
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..PLESIOPORA					
...NAIDIDAE					
....UNKNOWN GENUS	--	--	--	--	--
..PROSOPORA					
...LUMBRICULIDAE					
....UNKNOWN GENUS	--	--	--	--	--
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
ARTHROPODA (ARTHROPODS)					
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
.CRUSTACEA					
..DECAPODA					
...ASTACIDAE					
....UNKNOWN GENUS	--	--	1	--	1
..ISOPODA					
...ASELLIDAE					
....LIRCEUS	1	4	6	--	4
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	7	6	9	--	2
...ELMIDAE					
....ANCYRONYX	2	--	--	--	2
....DUBIRAPHIA	--	--	--	7	2
....OPTIOSERVUS	--	--	31	--	--
....OULIMNIUS	2	1	--	--	1
....STENELMIS	48	61	40	--	15
...PSEPHENIDAE					
....ECTOPRIA	--	--	--	--	--
....PSEPHENUS	--	--	--	--	--
...PTILODACTYLIDAE					
....ANCHYTARSUS	--	--	--	--	2
..DIPTERA					
...CERATOPOGONIDAE=HELEIDAE					
....UNKNOWN GENUS	--	--	--	--	--
...CHIRONOMIDAE					
....ABLABESMYIA	--	--	1	--	--
....BRILLIA	--	--	--	--	--
....CARDIOCLADIUS	--	--	1	--	--
....CHAETOCLADIUS	--	--	--	--	73
....CHIRONOMUS	--	--	--	1	--
....CONCHAPELOPIA	8	11	6	--	--
....CORYNONEURA	--	--	--	--	--
....CRICOTOPUS	25	--	1	--	--
....CRYPTOCHIRONOMUS	--	--	--	2	--
....DEMICRYPTOCHIRONOMUS	--	--	--	--	--
....EUKIEFFERIELLA	37	20	9	--	71
....LIMNOCHIRONOMUS	--	--	--	1	--
....MICROPSECTRA	--	--	--	--	--
....NANOCLADIUS	--	--	--	--	--
....NILOTANYPUS	--	--	--	--	--
....ORTHOCLADIUS	--	--	--	--	--
....PARAMETRIOCNEMUS	--	--	--	--	--
....PENTANEURA	--	--	--	--	--
....PHAENOPSECTRA	--	--	--	5	--
....POLYPEDILUM	118	23	19	2	1
....PROCLADIUS	--	--	--	2	--
....PSECTROCLADIUS	--	--	--	--	--
....PSEUDOCHIRONOMUS	--	--	--	1	--
....RHEOCRICOTOPUS	--	--	--	--	--
....RHEOTANYTARSUS	10	--	3	--	--
....SMITTIA	--	--	--	--	--
....STENOCHIRONOMUS	--	--	--	--	--
....TANYTARSUS	--	--	--	--	--

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1							---	---	---	39	33	36
2							---	---	---	37	36	36
3							---	---	---	37	36	37
4							---	---	---	---	---	---
5							---	---	---	---	---	---
6							---	---	---	---	---	---
7							---	---	---	---	---	---
8							117	50	106	---	---	---
9							59	40	46	---	---	---
10							43	41	42	---	---	---
11							47	43	45	---	---	---
12							52	43	48	---	---	---
13							52	43	47	---	---	---
14							49	45	47	---	---	---
15							47	44	45	---	---	---
16							47	44	46	---	---	---
17							56	45	48	---	---	---
18							52	45	48	---	---	---
19							46	45	45	---	---	---
20							48	46	46	---	---	---
21							53	44	48	---	---	---
22							47	45	46	---	---	---
23							47	45	46	---	---	---
24							52	43	45	---	---	---
25							66	42	46	---	---	---
26							44	42	43	---	---	---
27							45	43	43	---	---	---
28							55	44	49	---	---	---
29							64	42	52	---	---	---
30							68	39	45	---	---	---
31							40	39	39	---	---	---
MONTH							117	39	48	39	33	36

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	21	20	21	28	26	27	30	28	29
2	---	---	---	22	20	21	26	26	26	31	29	29
3	---	---	---	21	15	19	28	26	27	32	28	29
4	---	---	---	18	16	17	27	25	26	31	28	29
5	---	---	---	19	17	18	28	26	27	29	27	28
6	---	---	---	20	18	19	28	25	27	28	27	28
7	---	---	---	20	18	19	28	26	27	29	28	29
8	---	---	---	20	19	20	27	26	27	30	29	29
9	---	---	---	22	19	20	27	26	27	30	29	30
10	---	---	---	20	19	20	29	26	28	31	30	30
11	---	---	---	22	20	21	28	27	27	31	30	31
12	---	---	---	23	20	21	28	17	24	36	30	31
13	---	---	---	22	20	21	---	---	---	32	31	31
14	---	---	---	25	21	23	---	---	---	33	30	32
15	---	---	---	28	25	27	---	---	---	33	30	31
16	---	---	---	29	27	28	33	26	29	35	29	32
17	---	---	---	29	27	28	30	23	27	38	30	34
18	---	---	---	31	27	29	23	22	23	45	36	39
19	---	---	---	30	26	28	24	22	23	50	39	44
20	---	---	---	43	27	29	24	23	23	48	38	43
21	---	---	---	28	27	28	24	24	24	48	38	43
22	---	---	---	29	28	28	25	24	25	47	39	44
23	---	---	---	28	25	27	26	25	25	49	33	44
24	---	---	---	27	26	27	26	25	26	50	43	47
25	---	---	---	29	26	27	26	26	26	---	---	---
26	21	19	20	29	25	27	27	26	26	---	---	---
27	21	19	20	28	25	27	27	26	27	---	---	---
28	21	20	21	27	25	26	28	27	28	---	---	---
29	---	---	---	27	25	26	30	28	29	---	---	---
30	---	---	---	27	26	27	30	27	29	---	---	---
31	---	---	---	28	27	27	---	---	---	---	---	---
MONTH	21	19	20	43	15	24	33	17	26	50	27	34

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1				---	---	---	---	---	---	45	30	37
2				---	---	---	43	41	42	36	29	31
3				---	---	---	42	41	41	39	34	36
4				---	---	---	42	40	42	47	36	41
5				---	---	---	49	40	45	48	35	43
6				---	---	---	50	46	48	63	40	51
7				52	31	43	45	25	34	65	37	50
8				---	---	---	55	25	34	39	37	38
9				45	39	42	31	24	28	41	38	39
10				---	---	---	---	---	---	42	39	40
11				47	43	45	---	---	---	42	39	40
12				47	43	44	---	---	---	43	41	42
13				48	35	44	---	---	---	---	---	---
14				40	38	39	---	---	---	---	---	---
15				42	37	40	---	---	---	---	---	---
16				49	38	42	46	42	44	---	---	---
17				56	45	49	48	43	46	---	---	---
18				60	25	39	48	44	46	---	---	---
19				48	27	35	47	43	45	---	---	---
20				43	19	30	47	43	45	---	---	---
21				26	23	25	46	42	44	---	---	---
22				26	25	26	46	43	45	---	---	---
23				27	26	27	50	44	47	---	---	---
24				---	---	---	48	45	46	---	---	---
25				---	---	---	48	43	46	---	---	---
26				---	---	---	47	42	43	82	65	71
27				---	---	---	44	41	42	100	82	90
28				---	---	---	44	41	42	80	36	51
29				---	---	---	47	42	44	38	34	35
30				---	---	---	51	41	44	43	34	39
31				---	---	---	47	30	39	---	---	---
MONTH				60	19	38	55	24	43	100	29	46

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1							---	---	---	13.0	10.5	12.0
2							---	---	---	10.5	6.0	8.0
3							---	---	---	5.5	3.5	4.0
4							---	---	---	---	---	---
5							---	---	---	---	---	---
6							---	---	---	---	---	---
7							---	---	---	---	---	---
8							---	---	---	---	---	---
9							---	---	---	---	---	---
10							8.0	6.0	6.5	---	---	---
11							6.0	5.0	5.5	---	---	---
12							5.5	3.0	4.5	---	---	---
13							4.5	2.5	4.0	---	---	---
14							4.5	3.5	4.0	---	---	---
15							4.5	2.5	3.5	---	---	---
16							6.5	4.5	5.5	---	---	---
17							6.5	5.5	6.0	---	---	---
18							6.0	4.0	5.5	---	---	---
19							9.5	6.5	7.5	---	---	---
20							12.0	9.5	10.5	---	---	---
21							12.0	8.5	10.5	---	---	---
22							8.5	6.0	7.0	---	---	---
23							7.0	4.5	6.0	---	---	---
24							8.0	7.0	7.5	---	---	---
25							7.0	6.0	6.5	---	---	---
26							6.0	4.5	5.5	---	---	---
27							6.0	5.0	5.5	---	---	---
28							5.0	3.0	4.0	---	---	---
29							6.0	5.0	5.5	---	---	---
30							8.5	6.0	7.5	---	---	---
31							11.5	8.5	10.0	---	---	---
MONTH							12.0	2.5	6.5	13.0	3.5	8.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	17.0	15.0	16.0	17.0	14.0	15.5
2	---	---	---	---	---	---	16.5	15.0	16.0	17.5	15.5	16.0
3	---	---	---	---	---	---	15.5	14.0	14.5	---	---	---
4	---	---	---	---	---	---	16.0	13.5	14.5	---	---	---
5	---	---	---	---	---	---	15.5	12.0	13.5	---	---	---
6	---	---	---	---	---	---	15.5	11.0	13.5	---	---	---
7	---	---	---	---	---	---	16.5	12.5	14.5	19.0	17.0	18.5
8	---	---	---	---	---	---	15.5	14.0	14.5	18.5	17.5	18.0
9	---	---	---	---	---	---	15.5	13.5	14.5	19.5	18.0	19.0
10	---	---	---	---	---	---	15.0	11.5	13.5	20.5	18.5	19.5
11	---	---	---	---	---	---	17.5	14.5	16.0	20.5	19.5	20.0
12	---	---	---	---	---	---	17.5	15.0	16.5	20.0	19.5	19.5
13	---	---	---	---	---	---	---	---	---	19.5	17.5	18.5
14	---	---	---	14.5	12.0	13.5	---	---	---	18.5	16.0	17.0
15	---	---	---	12.5	9.5	11.0	---	---	---	19.0	16.0	17.5
16	---	---	---	11.5	9.5	10.5	---	---	---	19.5	17.0	18.0
17	---	---	---	13.5	10.0	11.5	17.0	14.0	15.5	19.0	16.5	18.0
18	---	---	---	15.0	11.5	13.0	17.5	15.0	16.5	20.0	17.5	19.0
19	---	---	---	16.0	12.5	14.5	17.5	15.5	16.5	20.0	18.0	19.0
20	---	---	---	16.5	13.5	15.0	18.0	15.5	16.5	21.0	18.5	19.5
21	---	---	---	16.5	15.0	15.5	17.0	16.5	17.0	21.5	19.5	20.0
22	---	---	---	16.0	14.5	15.0	17.0	16.5	16.5	22.0	20.0	21.0
23	12.5	12.0	12.5	16.0	14.5	15.0	17.5	16.5	17.0	21.0	20.5	20.5
24	12.5	11.5	12.0	14.5	11.5	12.5	17.0	16.5	17.0	20.5	18.0	19.5
25	12.5	9.0	10.5	11.5	9.0	10.5	17.0	16.5	17.0	19.0	16.0	17.5
26	9.0	8.5	8.5	11.5	8.0	10.0	17.5	16.0	16.5	18.0	14.0	16.0
27	---	---	---	13.5	10.0	12.0	17.5	15.0	16.0	16.5	15.5	16.0
28	---	---	---	16.0	12.0	13.5	17.5	14.5	15.5	18.0	16.5	17.0
29	---	---	---	16.5	13.5	14.5	16.0	13.0	14.5	18.0	17.0	17.5
30	---	---	---	17.5	14.0	15.5	16.5	13.5	15.0	18.5	17.5	18.0
31	---	---	---	16.5	15.5	16.0	---	---	---	19.0	18.0	18.5
MONTH	12.5	8.5	11.0	17.5	8.0	13.5	18.0	11.0	15.5	22.0	14.0	18.5

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.5	18.5	19.0	23.0	21.0	22.5	26.0	23.5	24.5	25.0	22.5	24.0
2	20.5	19.0	19.5	23.0	21.5	22.5	26.0	23.0	24.5	23.0	22.0	22.5
3	20.5	19.5	20.0	24.5	22.5	23.5	26.0	23.5	24.5	23.0	21.5	22.0
4	20.5	19.5	20.0	25.5	23.5	24.5	26.5	24.0	25.0	24.0	22.0	23.0
5	21.0	18.5	20.0	26.0	24.0	25.0	26.5	24.0	25.0	24.5	22.5	23.5
6	21.0	19.5	20.0	26.0	23.5	25.0	26.5	23.5	25.0	24.0	22.5	23.5
7	21.5	20.0	20.5	24.0	23.0	23.0	26.5	23.5	25.0	24.0	22.5	23.0
8	22.5	20.5	21.0	23.0	22.5	22.5	27.0	24.0	25.5	23.5	21.5	22.5
9	23.0	21.0	22.0	24.0	22.0	23.0	26.5	23.5	25.0	23.0	20.5	21.5
10	23.0	21.5	22.0	24.0	22.5	23.0	27.0	24.0	25.5	23.0	20.5	21.5
11	22.0	20.0	21.0	23.5	22.5	23.0	25.5	23.5	24.5	23.0	20.0	21.5
12	21.5	18.5	20.0	24.5	22.5	23.5	24.5	22.5	23.5	22.5	20.0	21.5
13	21.5	18.5	20.0	24.0	22.5	23.0	23.5	20.5	22.0	22.0	21.0	21.5
14	21.5	19.0	20.5	24.5	21.5	23.0	23.0	20.0	21.5	21.0	20.5	20.5
15	22.0	19.0	20.5	25.5	23.0	24.0	23.5	20.5	22.0	20.5	19.0	19.5
16	22.0	18.5	20.5	26.5	23.0	24.5	24.0	21.5	23.0	19.5	19.0	19.5
17	22.0	19.0	20.5	27.0	23.5	25.5	23.5	20.5	22.0	20.0	19.5	19.5
18	22.5	20.0	21.0	---	---	---	24.0	21.5	22.5	20.0	19.5	20.0
19	23.5	20.0	22.0	25.0	23.5	24.0	25.0	22.0	23.5	20.5	19.5	20.0
20	24.0	21.0	22.5	24.0	21.0	22.5	26.0	23.0	24.5	20.5	20.0	20.0
21	23.0	22.0	22.5	21.0	20.5	21.0	26.0	23.5	24.5	21.0	20.0	20.5
22	24.0	20.5	22.5	22.0	20.5	21.0	26.5	23.5	24.5	20.5	19.5	20.0
23	24.0	21.5	23.0	22.5	21.0	22.0	25.0	23.0	24.0	20.0	18.5	19.0
24	24.5	22.5	23.5	22.5	22.0	22.0	26.0	23.0	24.5	19.5	18.5	19.0
25	24.0	20.5	22.0	22.5	22.0	22.5	25.5	23.5	24.5	19.5	18.5	19.0
26	22.0	19.5	21.0	23.5	22.0	22.5	25.0	23.5	24.0	19.5	18.5	19.0
27	22.5	20.0	21.0	24.0	22.0	23.0	25.5	23.0	24.0	20.0	19.0	19.5
28	22.5	20.0	21.0	24.5	22.5	23.5	26.0	23.5	24.5	20.5	19.5	20.0
29	23.0	20.5	21.5	25.0	23.0	24.0	25.5	23.0	24.5	20.5	18.5	19.5
30	25.0	22.0	23.5	25.5	23.0	24.5	26.5	23.5	25.0	20.5	18.0	19.5
31	---	---	---	26.0	24.0	25.0	25.0	22.5	24.0	---	---	---
MONTH	25.0	18.5	21.0	27.0	20.5	23.5	27.0	20.0	24.0	25.0	18.0	21.0

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Time	Streamflow, instantaneous (cfs)	Sediment, suspended (mg/L)
Dec			
08.....	1112	0.12	64
08.....	2245	3.2	181
09.....	0605	27	98
09.....	1135	32	82
11.....	1125	4.2	19
20.....	1213	2.5	11
21.....	1205	4.8	19
22.....	2105	5.6	9
24.....	1530	4.8	14
29.....	2350	4.8	40
30.....	0635	31	30
31.....	0630	31	25
31.....	1555	32	36
Jan			
04.....	1315	19	1
06.....	1154	14	7
06.....	1240	14	4
06.....	1805	14	6
07.....	1545	214	282
07.....	1815	183	104
08.....	1815	67	140
09.....	1815	40	34
11.....	0600	24	4
16.....	1004	10	7
16.....	1800	10	8
18.....	0720	10	5
18.....	1800	9.8	2
19.....	1800	11	13
21.....	0820	534	241
21.....	1045	435	251
21.....	1430	349	107
21.....	1800	300	89
21.....	2100	259	158
22.....	1045	160	279
24.....	0105	160	84
24.....	1520	117	267
25.....	0320	90	126
25.....	1100	77	103
26.....	0315	62	112
26.....	1400	53	197
27.....	1755	60	3
28.....	1755	44	6
29.....	1355	35	8
29.....	1755	35	12
30.....	1755	33	7
31.....	1755	32	9
Feb			
01.....	1755	24	7
02.....	1755	20	8
04.....	1750	18	7
05.....	1750	15	4
28.....	1300	52	7
Mar			
03.....	1917	2700	702
03.....	1948	2960	1190
03.....	1953	3000	399
03.....	2000	3040	351
03.....	2006	3010	404
03.....	2013	3090	222
03.....	2235	3000	337
04.....	0024	2360	313
04.....	0132	1920	152
04.....	0205	1640	144
04.....	0251	1390	212
04.....	0336	1150	201
Mar			
04.....	0505	902	204
14.....	1245	22	44
21.....	0515	15	14
22.....	2310	13	12
23.....	0740	33	55
24.....	1135	37	32
26.....	1347	22	22
Apr			
13.....	1415	2100	70
16.....	1546	70	73
17.....	1237	50	46
18.....	1535	41	64
19.....	1310	29	42
19.....	1605	28	40
19.....	1640	28	44
22.....	0532	19	12
22.....	1930	18	19
29.....	1805	8.2	5
30.....	1805	7.1	5
May			
01.....	1805	6.4	10
02.....	1805	6.0	6
03.....	1805	7.1	6
04.....	1805	14	6
05.....	1805	11	7
06.....	1805	8.4	10
07.....	1805	6.6	7
08.....	1805	6.0	9
09.....	1805	5.2	8
24.....	1420	1.7	6
29.....	1400	74	350
Jun			
06.....	1130	3.9	7
26.....	1130	0.36	17
Jul			
11.....	1500	1.4	36
13.....	1730	2.6	18
13.....	1835	4.6	36
15.....	1725	2.2	14
16.....	1720	1.8	21
31.....	1130	5.4	9
Aug			
21.....	1207	0.53	3
21.....	1615	0.53	3
22.....	1615	0.48	2
23.....	1447	0.44	8
23.....	1552	0.44	4
24.....	1135	0.44	3
24.....	1610	0.40	2
25.....	1605	0.48	2
26.....	0225	2.9	13
26.....	0525	3.6	7
26.....	1605	1.5	4
27.....	1605	0.84	4
28.....	1222	0.68	4
28.....	1600	0.68	9
29.....	0900	0.53	4
29.....	1507	0.48	4
29.....	1600	0.44	3
30.....	1600	0.40	4
30.....	2245	11	191
30.....	2255	16	251
31.....	0050	16	54

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Time	Streamflow, instantaneous (cfs)	Sediment, suspended (mg/L)
Aug			
31.....	1030	3.6	57
31.....	1555	2.4	76
Sep			
01.....	1555	1.2	53
01.....	2240	79	327
01.....	2245	98	1450
01.....	2255	142	1070
01.....	2305	168	1570
01.....	2340	205	1290
02.....	0105	161	2720
02.....	0335	94	1210
02.....	0650	44	457
02.....	1525	37	51
02.....	1650	42	56
02.....	1703	43	46
02.....	1730	43	47
03.....	1030	16	17
03.....	1240	15	16
03.....	1550	13	13
04.....	1550	8.4	19
05.....	1550	4.8	9
06.....	0055	3.8	12
06.....	1140	3.3	10
06.....	1240	3.3	8
06.....	1325	3.3	7
06.....	1545	3.3	13
07.....	1305	2.6	10
07.....	1545	2.6	7
08.....	1545	2.4	5
09.....	1540	1.8	4
10.....	1540	1.6	6
11.....	1540	1.4	4
12.....	1535	1.1	5
13.....	0940	6.2	44
13.....	1015	27	222
13.....	1045	110	1080
13.....	1135	291	1970
Sep			
13.....	1205	365	1380
13.....	1517	380	963
13.....	1535	358	378
13.....	1700	300	565
14.....	0020	162	43
14.....	0915	97	75
14.....	1530	68	10
15.....	1530	27	8
16.....	0710	18	10
16.....	1530	16	8
17.....	1305	18	6
17.....	1525	23	8
18.....	1525	62	12
19.....	1523	62	6
20.....	1520	36	9
20.....	1925	44	17
20.....	2100	100	30
20.....	2150	158	103
21.....	0005	227	187
21.....	0045	230	191
21.....	0255	230	92
21.....	1520	275	69
21.....	1930	227	62
22.....	1630	95	36
23.....	1430	46	19
24.....	1515	28	20
25.....	1520	20	8
26.....	1510	15	9
27.....	1510	14	10
28.....	1505	11	8
29.....	1505	8.7	15
30.....	1505	7.1	8

02464000 NORTH RIVER NEAR SAMANTHA, AL

LOCATION.--Lat 33°28'45", long 87°35'50", in SW¼ sec. 16, T. 18 S., R. 10 W., Tuscaloosa County, Hydrologic Unit 03160112, on left bank about 200 ft (61 m) downstream from bridge on county road, 1.2 mi (1.9 km) upstream from Cripple Creek, 4 mi (6 km) north of Samantha, and at mile 36.9 (59.4 km).

DRAINAGE AREA.--219 mi^2 (567 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1938 to September 1954, October 1968 to current year.

REVISED RECORDS.--WSP 1304: 1939(M), Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 232.39 ft (70.832 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 25, 1939, nonrecording gage 40 ft (12 m) downstream at same datum.

REMARKS.--Water-discharge record fair.

AVERAGE DISCHARGE.--26 years (water years 1939-54, 1968-79), 386 ft^3/s (10.93 m^3/s), 23.94 in/yr (608 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,500 ft^3/s (722 m^3/s) Mar. 20, 1970, gage height, 35.08 ft (10.692 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Sept. 5-8, 13-15, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of July 1916 and February 1936 reached a stage of about 31 ft (9.4 m), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 21	0400	10100	286	20.06	6.114	Mar. 4	0800	12800	362	24.11	7.349
Feb. 25	1300	6460	183	14.35	4.374	Apr. 13	1100	*19400	549	*30.55	9.312

Minimum discharge, 5.5 ft^3/s (0.16 m^3/s) Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	6.8	25	1460	274	912	665	145	278	17	56	151
2	11	6.4	21	2160	238	731	720	135	161	16	129	819
3	10	6.4	19	725	238	4250	2530	174	121	15	100	571
4	10	6.4	118	428	233	12200	2330	189	110	15	67	1170
5	9.0	6.8	132	255	204	6020	1270	242	96	14	55	423
6	8.1	7.3	58	242	221	1460	819	185	102	18	45	204
7	7.3	9.4	41	1770	786	1030	577	157	148	145	40	129
8	7.7	17	58	1530	780	764	483	145	102	62	35	98
9	6.8	15	665	753	845	555	555	127	84	48	31	73
10	6.8	14	390	522	550	472	445	124	73	167	28	60
11	6.8	13	148	395	390	560	365	113	67	98	28	51
12	6.1	11	93	355	315	412	7280	171	56	84	36	50
13	6.1	10	69	345	274	350	18800	200	50	200	40	1530
14	5.8	9.8	56	302	242	316	16100	151	47	148	33	2710
15	12	11	47	242	217	264	4060	121	44	58	28	885
16	13	10	45	221	197	225	1300	102	41	41	24	500
17	9.4	21	63	225	171	204	934	86	40	35	23	412
18	9.0	93	56	246	350	193	714	80	38	31	21	956
19	7.7	36	50	274	467	185	566	74	34	56	18	945
20	6.4	20	47	6280	390	182	467	73	32	439	17	654
21	6.4	15	93	9920	401	208	390	67	28	1090	17	2050
22	6.8	14	154	4650	489	185	345	63	27	824	16	2160
23	9.0	14	105	1370	604	566	340	60	26	345	17	945
24	8.1	14	102	1520	4260	896	340	67	29	193	21	588
25	7.3	14	113	1020	5540	549	355	69	29	157	43	439
26	6.4	14	91	747	3020	390	311	58	26	167	321	326
27	6.4	14	76	676	1160	311	251	53	23	242	113	283
28	4.9	15	65	533	880	260	212	82	22	135	55	278
29	5.5	23	56	406	---	225	182	330	20	102	39	233
30	7.3	31	229	350	---	204	164	283	18	80	31	189
31	7.3	---	582	345	---	197	---	340	---	65	154	---
TOTAL	245.4	498.3	3867	40267	23736	35276	63870	4266	1972	5107	1681	19882
MEAN	7.92	16.6	125	1299	848	1138	2129	138	65.7	165	54.2	663
MAX	13	93	665	9920	5540	12200	18800	340	278	1090	321	2710
MIN	4.9	6.4	19	221	171	182	164	53	18	14	16	50
CFSM	.04	.08	.57	5.93	3.87	5.20	9.72	.63	.30	.75	.25	3.03
IN.	.04	.08	.66	6.84	4.03	5.99	10.85	.72	.33	.87	.29	3.38

CAL YR 1978 TOTAL 88241.5 MEAN 242 MAX 4630 MIN 4.9 CFSM 1.11 IN 14.99
WTR YR 1979 TOTAL 200667.7 MEAN 550 MAX 18800 MIN 4.9 CFSM 2.51 IN 34.09

02464000 NORTH RIVER NEAR SAMANTHA, AL--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1967, 1968, and 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama, and the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT					
04...	1140	11	--	--	19.5
25...	1045	7.1	110	6.8	14.5
NOV					
01...	1300	6.5	148	--	--
APR					
13...	1245	18500	27	6.4	14.7
MAY					
07...	1430	153	63	--	20.5
JUN					
05...	1230	98	58	6.8	23.0
JUL					
30...	1400	76	94	--	27.0
AUG					
28...	0845	58	74	6.1	25.0
SEP					
10...	1400	58	132	--	24.0

DATE	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
OCT										
25...	7.8	17	6	2.5	2.6	12	58	1.3	1.6	14
APR										
13...	8.3	9	4	2.1	.9	.8	15	.1	1.0	6
JUN										
05...	--	--	--	--	--	--	--	--	--	10
AUG										
28...	--	--	--	--	--	--	--	--	--	9

02464000 NORTH RIVER NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT										
25...	0	11	3.6	6.6	18	.1	6.3	57	.08	1.09
APR										
13...	0	5	3.8	3.0	.8	.0	6.2	18	.02	899
JUN										
05...	0	8	2.5	11	--	--	--	--	--	--
AUG										
28...	0	7	11	20	--	--	--	--	--	--

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
OCT										
25...	.00	.00	<1	10	1	5	ND	--	--	150
APR										
13...	.09	.40	ND	ND	ND	ND	2	--	--	80
JUN										
05...	--	--	--	--	--	--	--	1200	880	320
AUG										
28...	--	--	--	--	--	--	--	2100	1900	250

DATE	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT										
25...	2	--	--	100	--	ND	40	20	--	--
APR										
13...	--	--	--	10	.2	ND	50	10	--	--
JUN										
05...	--	120	20	100	--	--	--	--	16	4.2
AUG										
28...	--	270	50	220	--	--	--	--	41	6.5

02465000 BLACK WARRIOR RIVER AT NORTHPORT, AL

LOCATION.--Lat 33°12'51", long 87°34'50", in NE¼ sec. 21, T. 21 S., R. 10 W., Tuscaloosa County, Hydrologic Unit 03160112, attached to loading dock at Alabama State Dock Facility, at Northport 0.2 mi (0.3 km) downstream from Gulf, Mobile & Ohio Railroad bridge, 0.35 mi (0.56 km) upstream from Oliver lock and dam, 0.9 mi (1.4 km) downstream from Two Mile Creek, 5.2 mi (8.4 km) downstream from North River, and at mile 126.6 (203.7 km).

DRAINAGE AREA.--4,828 mi^2 (12,504 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1889 to September 1894 (gage heights only), October 1894 to December 1902, January 1903 to December 1905 (gage heights and discharge measurements only), August 1928 to current year. Monthly discharge only for period October to December 1894, published in WSP 1304.

REVISED RECORDS.--WSP 1002: 1940-43. WSP 1384: Drainage area. WSP 1624: 1900.

GAGE.--Water-stage recorder. Datum of gage is 83.35 ft (25.405 m) National Geodetic Vertical Datum of 1929. See WSP 2106 for history of changes prior to Mar. 19, 1951. Mar. 20, 1951 to Feb. 13, 1974, water-stage recorder 0.35 mi (0.56 km) upstream on pier of former bridge at present datum. Feb. 14, 1974 to Aug. 7, 1974 nonrecording gage at site 0.35 mi (0.56 km) downstream at datum 1.08 ft (0.329 m) lower. Subsequent to Apr. 19, 1944, auxiliary water-stage recorder, and Aug. 29, 1939, to Apr. 18, 1944, auxiliary nonrecording gage, 500 ft (152 m) downstream from Oliver lock and dam at datum 1.08 ft (0.329 m) lower.

REMARKS.--Water-discharge record good above 6,000 ft^3/s (170 m^3/s) and poor below. Some regulation by Lewis Smith Reservoir on Sipsey Fork (station 02451950), by Bankhead lock and dam on Black Warrior River, usable capacity, 112,000 acre-ft (138 hm^3), Holt lock and dam on Black Warrior River, usable capacity 115,000 acre-ft (142 hm^3), and occasionally during periods of low flow by Oliver lock and dam downstream from gage. National Weather Service rain gage and gage height telemeters at station.

AVERAGE DISCHARGE.--59 years (water years 1894-1902, 1928-79) 7,931 ft^3/s (224.6 m^3/s), 22.31 in/yr (567 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 272,000 ft^3/s (7,700 m^3/s) Apr. 13, 1979; maximum gage height, 67.7 ft (20.63 m) Apr. 18, 1900; minimum daily discharge, 37 ft^3/s (1.05 m^3/s) Oct. 23, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 272,000 ft^3/s (7,700 m^3/s) Apr. 13, maximum gage height, 66.85 ft (20.376 m) Apr. 13; minimum daily, 609 ft^3/s (17.25 m^3/s) Dec. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	1020	829	8320	11700	15600	7490	13200	9450	711	3680	5180
2	2580	957	749	29700	11800	15600	10700	11400	7430	2650	3960	8550
3	928	893	927	19400	11100	43300	32300	10200	4640	2810	5160	12500
4	2060	913	1740	11900	11000	154000	42700	10500	6440	908	1800	11300
5	1620	944	3090	12200	10900	111000	32200	9690	5600	4840	928	7110
6	1420	1220	4080	9440	11100	82100	24500	6580	6060	4390	3460	6840
7	942	1390	1900	14800	12300	45900	18900	6920	4800	5420	3240	4520
8	753	1140	3020	26200	13700	27700	15500	6400	5620	994	3490	1250
9	638	1060	10800	14300	13200	23200	14800	7040	4250	3640	3470	674
10	833	907	10400	13200	12100	21500	15400	6610	2550	12000	3370	3620
11	1220	735	6200	11100	11200	19500	14100	5260	4520	9640	1810	3180
12	1530	766	3500	11000	8840	21400	72700	5440	3750	4740	3130	5220
13	943	861	1840	10900	9450	17000	233000	12200	4210	4330	3040	9280
14	737	842	3200	8890	9190	14100	190000	7400	3250	4040	3360	8930
15	800	806	2310	9100	9180	13200	124000	8310	3660	1470	2380	3150
16	819	612	633	10500	8800	13300	76100	5720	2030	4070	2770	2520
17	883	865	746	9360	7340	11000	35200	4640	956	3310	4100	8260
18	939	1390	1810	8320	3040	11000	23300	3390	3750	3370	1240	15000
19	1160	1540	1580	9190	8070	11700	22600	625	3900	3910	2680	12000
20	2480	893	1300	44900	11300	10800	18700	1140	3530	6630	2500	9190
21	1310	1290	1200	81600	11100	11000	19000	4820	1440	15800	1570	10700
22	1280	1710	2520	60600	11200	11000	16400	4270	2970	9810	2290	14200
23	955	900	871	37100	12100	12500	19500	1880	3450	10200	3380	7380
24	1380	884	3160	30600	34000	14000	15100	3340	1100	5310	3290	5340
25	855	765	609	24300	43000	10500	17100	4210	2540	4920	1870	2510
26	894	752	4360	16900	40000	10100	19000	2260	2200	5590	3690	3380
27	1900	823	5270	17500	25300	11300	29000	3010	2290	5910	3540	5140
28	1150	1300	3900	13900	20800	11000	26300	3960	2360	2160	4280	14300
29	1350	1020	6210	11700	---	10900	16700	6820	5990	2140	3780	21800
30	1100	829	5230	11500	---	10500	16200	7430	1140	5500	4570	13400
31	1550	---	2110	11300	---	1380	---	8950	---	3870	8610	---
TOTAL	38219	30027	96094	609720	402810	797080	1218490	193615	115876	155083	100438	236424
MEAN	1233	1001	3100	19670	14390	25710	40620	6246	3863	5003	3240	7881
MAX	2580	1710	10800	81600	43000	154000	233000	13200	9450	15800	8610	21800
MIN	638	612	609	8320	3040	1380	7490	625	956	711	928	674
CFSM	.26	.21	.64	4.07	2.98	5.33	8.41	1.29	.80	1.04	.67	1.63
IN.	.29	.23	.74	4.70	3.10	6.14	9.39	1.49	.89	1.19	.77	1.82

CAL YR 1978 TOTAL 2033853 MEAN 5572 MAX 51300 MIN 110 CFSM 1.15 IN 15.67
WTR YR 1979 TOTAL 3993876 MEAN 10940 MAX 233000 MIN 609 CFSM 2.27 IN 30.77

02465000 BLACK WARRIOR RIVER AT NORTHPORT, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1960 to current year.

PERIOD OF DAILY RECORD.--
CHEMICAL ANALYSES: October 1966 to September 1972.
SPECIFIC CONDUCTANCE: October 1966 to September 1972.
WATER TEMPERATURES: November 1960 to current year.

INSTRUMENTATION.--Temperature recorder since November 1960.

REMARKS.--No temperature data Apr. 18-May 14 due to recorder malfunction.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama, and the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 35.5°C Aug. 20, 1978; minimum (water years 1961-70, 1972-73, 1976-79), 4.0°C Jan. 21-25, Feb. 2, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 29.5°C Aug. 7, 8, 19; minimum, 5.5°C Feb. 10-12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
25...	1345	1160	180	7.1	19.5	7.5	48	25	9.6	5.8	16	40
JUN												
07...	1015	4610	190	7.0	23.0	--	--	--	--	--	--	--
AUG												
28...	1130	516	192	6.6	28.0	--	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
25...	1.0	3.5	28	0	23	3.6	48	8.1	.1	5.7	112
JUN											
07...	--	--	30	0	25	4.8	49	--	--	--	--
AUG											
28...	--	--	33	0	27	13	59	--	--	--	--

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)
OCT											
25...	.15	351	.27	1.2	<1	80	<1	4	ND	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	380	350
AUG											
28...	--	--	--	--	--	--	--	--	--	240	180

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT											
25...	30	1	--	--	57	<.2	ND	60	20	--	--
JUN											
07...	30	--	130	90	40	--	--	--	--	8	100
AUG											
28...	60	--	150	40	110	--	--	--	--	5	7.0

02465000 BLACK WARRIOR RIVER AT NORTHPORT, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	26.5	25.5	26.0	20.0	20.0	20.0	16.5	16.5	16.5	12.5	12.0	12.5
2	26.0	25.5	26.0	20.0	19.5	20.0	16.5	16.0	16.0	12.0	11.0	11.5
3	25.5	24.0	25.0	20.5	19.5	20.0	16.5	16.0	16.0	11.0	10.5	11.0
4	26.0	24.0	24.5	20.0	19.5	19.5	16.5	16.0	16.5	10.5	10.5	10.5
5	25.0	24.5	24.5	19.5	19.5	19.5	16.0	15.5	16.0	10.5	10.0	10.0
6	24.5	24.0	24.0	19.5	19.5	19.5	16.0	15.5	16.0	10.0	10.0	10.0
7	24.0	23.5	24.0	19.5	19.0	19.0	16.5	16.0	16.5	10.0	9.5	10.0
8	24.0	23.5	23.5	19.0	18.5	18.5	17.0	16.5	16.5	9.5	9.0	9.5
9	23.5	23.0	23.0	18.5	18.0	18.0	17.0	15.5	16.0	9.0	9.0	9.0
10	23.5	22.5	23.0	18.0	17.5	17.5	15.5	15.5	15.5	9.0	8.5	8.5
11	23.0	22.5	22.5	18.0	17.5	17.5	15.5	15.0	15.0	9.0	8.5	8.5
12	22.5	22.0	22.5	18.0	17.5	18.0	15.0	14.5	14.5	8.5	8.5	8.5
13	22.0	22.0	22.0	18.0	18.0	18.0	14.5	14.0	14.5	8.5	8.5	8.5
14	22.0	21.5	21.5	18.5	18.0	18.0	14.0	13.5	14.0	8.5	8.0	8.0
15	21.5	21.0	21.5	18.0	18.0	18.0	13.5	13.5	13.5	7.5	7.5	7.5
16	22.0	21.0	21.0	18.5	18.0	18.0	13.5	13.5	13.5	7.5	7.5	7.5
17	21.5	20.5	21.0	18.5	18.5	18.5	13.5	13.5	13.5	7.5	7.5	7.5
18	21.5	20.0	20.5	18.5	18.5	18.5	13.5	13.0	13.0	7.5	7.5	7.5
19	20.0	19.5	20.0	18.5	18.0	18.0	13.5	13.0	13.0	7.5	7.5	7.5
20	20.0	19.0	19.5	18.0	17.5	18.0	13.5	13.0	13.5	7.5	7.5	7.5
21	19.0	19.0	19.0	18.0	17.5	18.0	13.5	13.5	13.5	7.5	7.5	7.5
22	19.5	19.0	19.0	18.0	17.5	18.0	14.0	13.5	13.5	8.0	8.0	8.0
23	20.0	19.5	20.0	18.0	17.5	18.0	13.5	13.5	13.5	8.5	8.0	8.5
24	20.5	20.0	20.0	18.5	18.0	18.0	13.5	12.5	13.0	8.5	8.0	8.0
25	20.5	20.0	20.5	18.0	17.5	18.0	13.0	12.5	12.5	8.0	8.0	8.0
26	20.5	20.0	20.5	18.0	17.5	18.0	12.5	12.0	12.5	8.0	7.5	7.5
27	20.5	20.0	20.5	18.0	18.0	18.0	12.5	12.0	12.0	7.5	7.5	7.5
28	20.5	20.0	20.0	18.0	17.5	17.5	12.5	12.0	12.0	7.5	7.5	7.5
29	20.0	19.5	20.0	17.5	17.0	17.0	12.0	12.0	12.0	7.5	7.0	7.0
30	20.0	19.5	20.0	17.0	16.5	17.0	12.0	12.0	12.0	7.0	7.0	7.0
31	20.0	19.5	20.0	---	---	---	12.5	12.0	12.0	7.0	7.0	7.0
MONTH	26.5	19.0	22.0	20.5	16.5	18.5	17.0	12.0	14.0	12.5	7.0	8.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.0	6.5	6.5	10.5	10.0	10.0	15.0	14.0	14.5	---	---	---
2	6.5	6.5	6.5	10.5	10.5	10.5	15.0	14.5	14.5	---	---	---
3	6.5	6.5	6.5	11.5	10.5	11.0	15.0	14.5	14.5	---	---	---
4	6.5	6.5	6.5	11.5	11.5	11.5	15.5	15.0	15.0	---	---	---
5	6.5	6.5	6.5	12.5	11.5	12.0	15.5	15.0	15.5	---	---	---
6	6.5	6.0	6.0	12.5	12.5	12.5	16.0	15.0	15.5	---	---	---
7	6.0	6.0	6.0	12.5	12.5	12.5	16.0	15.5	16.0	---	---	---
8	6.0	6.0	6.0	12.5	12.5	12.5	16.0	16.0	16.0	---	---	---
9	6.0	6.0	6.0	12.5	12.0	12.5	16.0	16.0	16.0	---	---	---
10	6.0	5.5	5.5	12.5	12.5	12.5	16.0	16.0	16.0	---	---	---
11	6.0	5.5	5.5	12.5	12.0	12.0	16.5	16.0	16.0	---	---	---
12	6.0	5.5	6.0	12.5	12.0	12.0	16.5	15.5	16.0	---	---	---
13	6.0	6.0	6.0	12.0	12.0	12.0	15.5	15.5	15.5	---	---	---
14	6.5	6.0	6.5	12.5	12.0	12.0	16.0	15.5	15.5	---	---	---
15	7.0	6.5	6.5	12.0	12.0	12.0	16.0	15.5	16.0	20.0	20.0	20.0
16	7.0	6.5	7.0	12.0	11.5	12.0	16.0	16.0	16.0	21.0	20.0	20.0
17	6.5	6.5	6.5	12.0	11.5	12.0	16.5	16.0	16.5	21.0	20.0	20.5
18	6.5	6.5	6.5	12.0	11.5	12.0	17.0	16.5	16.5	21.0	20.5	21.0
19	6.5	6.5	6.5	12.0	12.0	12.0	---	---	---	21.0	21.0	21.0
20	6.5	6.5	6.5	12.5	12.0	12.0	---	---	---	21.5	21.0	21.0
21	7.0	6.5	7.0	12.5	12.0	12.5	---	---	---	22.0	21.5	22.0
22	7.5	7.0	7.5	12.5	12.5	12.5	---	---	---	22.0	21.5	21.5
23	7.5	7.5	7.5	13.0	12.5	13.0	---	---	---	21.5	21.0	21.0
24	8.0	7.5	8.0	12.5	12.0	12.5	---	---	---	21.5	21.0	21.0
25	8.5	8.0	8.5	12.5	12.5	12.5	---	---	---	21.5	21.0	21.0
26	9.0	8.5	9.0	13.0	12.5	12.5	---	---	---	21.0	20.5	20.5
27	9.5	9.0	9.5	13.5	13.0	13.0	---	---	---	21.0	21.0	21.0
28	10.0	9.5	9.5	13.5	13.0	13.5	---	---	---	21.5	21.0	21.0
29	---	---	---	13.5	13.0	13.5	---	---	---	21.5	21.0	21.0
30	---	---	---	14.0	13.5	13.5	---	---	---	22.0	21.5	21.5
31	---	---	---	14.5	14.0	14.0	---	---	---	22.0	21.5	21.5
MONTH	10.0	5.5	7.0	14.5	10.0	12.5	17.0	14.0	15.5	22.0	20.0	21.0

02465000 BLACK WARRIOR RIVER AT NORTHPORT, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.0	21.5	22.0	27.0	26.0	26.5	28.0	27.5	27.5	29.0	28.5	28.5
2	23.0	22.0	22.5	27.0	26.5	26.5	28.0	28.0	28.0	28.5	28.0	28.0
3	23.0	22.5	22.5	27.0	26.5	26.5	28.0	27.5	28.0	28.0	27.5	28.0
4	23.0	22.5	23.0	27.0	26.5	27.0	28.0	28.0	28.0	28.0	28.0	28.0
5	23.5	22.5	23.0	28.0	27.0	27.0	28.5	28.0	28.5	28.5	28.0	28.0
6	23.5	23.0	23.5	27.5	27.0	27.0	29.0	28.5	28.5	28.0	28.0	28.0
7	24.0	23.5	23.5	27.0	27.0	27.0	29.5	28.5	28.5	28.5	27.5	28.0
8	24.5	24.0	24.0	27.0	26.5	26.5	29.5	28.5	29.0	28.0	28.0	28.0
9	24.5	24.0	24.0	27.0	26.5	26.5	29.0	28.5	29.0	28.0	27.5	28.0
10	25.0	24.0	24.5	26.5	26.0	26.5	29.0	29.0	29.0	28.0	27.5	27.5
11	25.0	24.5	24.5	26.5	26.5	26.5	29.0	28.5	29.0	27.5	27.0	27.0
12	25.0	24.0	24.5	27.0	26.5	26.5	28.5	28.0	28.5	27.0	27.0	27.0
13	25.5	24.5	25.0	27.0	26.5	26.5	28.5	28.0	28.0	27.0	26.0	26.5
14	25.5	24.5	25.0	27.5	26.5	27.0	28.0	27.5	27.5	26.0	25.5	26.0
15	25.0	25.0	25.0	27.0	26.5	27.0	28.5	27.5	28.0	26.0	25.5	25.5
16	25.5	25.0	25.0	28.0	27.0	27.5	28.5	28.0	28.5	26.0	25.0	25.5
17	25.5	25.0	25.0	28.5	27.5	28.0	28.5	28.0	28.5	25.0	24.0	24.5
18	26.5	25.0	25.5	28.0	28.0	28.0	28.5	28.5	28.5	25.0	25.0	25.0
19	26.0	25.0	25.5	28.0	27.5	28.0	29.5	28.5	28.5	25.0	24.5	25.0
20	26.0	25.5	25.5	27.5	27.5	27.5	29.0	28.5	28.5	24.5	24.5	24.5
21	26.0	25.5	25.5	27.5	27.0	27.0	29.0	28.5	28.5	24.5	24.0	24.5
22	26.5	25.5	25.5	27.5	27.0	27.0	29.0	28.5	29.0	24.0	24.0	24.0
23	26.0	25.5	25.5	27.5	27.0	27.5	28.5	28.0	28.5	24.5	23.5	24.0
24	26.0	25.5	25.5	27.5	27.0	27.5	28.5	28.0	28.0	24.0	24.0	24.0
25	25.5	25.5	25.5	27.0	26.5	27.0	28.5	28.0	28.0	24.0	23.5	24.0
26	26.0	25.0	25.5	27.0	26.5	26.5	28.0	28.0	28.0	23.5	23.5	23.5
27	26.0	25.0	25.5	27.0	26.5	26.5	28.0	28.0	28.0	23.5	23.0	23.5
28	26.0	25.5	25.5	27.5	27.0	27.0	28.5	28.0	28.0	24.0	23.5	23.5
29	26.5	26.0	26.0	27.5	27.5	27.5	28.5	28.0	28.0	23.5	23.5	23.5
30	26.5	26.0	26.0	28.0	27.0	27.5	28.5	28.0	28.5	23.5	23.5	23.5
31	---	---	---	28.0	27.0	27.5	28.5	28.0	28.0	---	---	---
MONTH	26.5	21.5	24.5	28.5	26.0	27.0	29.5	27.5	28.5	29.0	23.0	26.0

02465005 BLACK WARRIOR RIVER BELOW OLIVER LOCK AND DAM AT TUSCALOOSA, AL

LOCATION.--Lat 33°12'33", long 87°35'18", in NW¼ sec. 21, T. 21 S., R. 10 W., Tuscaloosa County, Hydrologic Unit 03160112, on downstream side of lock at Tuscaloosa, 0.7 mi (1.1 km) upstream from Mill Creek, 0.7 mi (1.1 km) downstream from Gulf, Mobile & Ohio Railroad bridge, and at mile 126.1 (202.9 km).

DRAINAGE AREA.--4,830 mi^2 (12,510 km^2).

PERIOD OF RECORD.--October 1971 to current year (gage heights only). Unpublished records from August 1939 to September 1971 available in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 82.3 ft (25.09 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Apr. 19, 1944, nonrecording gage at same site and datum.

EXTREMES (0700) FOR PERIOD OF RECORD.--Maximum gage height, 66.7 ft (20.33 m) Feb. 22, 1961; minimum, 10.0 ft (3.05 m) many days in October and November 1953, September 1954, and 1955.

EXTREMES (0700) FOR CURRENT YEAR.--Maximum gage height at 0700, 62.67 ft (19.102 m) Apr. 13; minimum, 13.30 ft (4.054 m) Oct. 18.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.60	13.80	13.74	13.94	20.79	25.65	13.92	23.61	19.80	14.00	15.30	14.69
2	13.60	13.80	13.74	25.35	21.16	24.51	17.78	22.07	17.80	13.60	15.20	19.56
3	14.20	14.00	13.75	28.84	21.01	24.30	24.25	20.41	17.20	14.20	15.30	20.42
4	13.60	13.80	13.76	22.39	20.62	57.14	39.37	20.09	16.00	14.90	15.80	17.57
5	14.00	13.80	13.88	22.03	20.62	56.52	37.98	20.06	16.80	14.10	14.00	15.28
6	13.80	13.80	14.50	19.11	20.49	53.66	33.13	18.08	16.60	15.40	13.80	15.41
7	13.90	13.80	14.14	20.39	21.06	48.07	28.03	18.24	17.00	15.50	13.70	14.23
8	13.90	13.80	13.75	26.44	22.48	39.33	24.74	16.60	16.30	15.20	13.90	13.72
9	14.00	13.80	17.92	26.20	22.75	34.72	24.60	16.85	16.20	13.90	15.00	13.72
10	13.60	13.60	19.83	23.10	21.64	32.40	24.43	17.08	15.10	19.50	14.60	14.17
11	13.60	13.60	16.10	21.15	21.32	30.51	23.85	16.60	14.80	20.10	15.00	13.74
12	14.00	13.60	15.10	20.32	17.63	28.52	22.25	15.83	15.40	17.70	15.60	16.09
13	13.50	13.60	13.76	20.28	18.46	27.36	62.67	20.86	15.30	15.90	14.60	17.45
14	13.50	13.76	14.06	17.69	18.33	23.23	61.80	18.48	15.60	15.40	14.07	16.86
15	13.40	13.78	13.97	17.95	18.18	23.02	58.06	18.08	15.00	15.60	13.73	14.09
16	13.40	13.75	13.75	19.80	18.09	23.04	53.14	17.42	15.00	14.20	13.77	13.81
17	13.40	13.75	13.75	18.30	16.17	21.48	44.03	16.28	14.30	15.20	13.80	22.24
18	13.30	13.76	13.75	17.35	16.42	20.83	37.50	15.48	13.80	14.90	13.72	21.10
19	13.40	13.81	13.85	17.74	14.65	20.96	33.62	14.70	15.30	15.00	13.73	17.89
20	13.50	13.83	13.81	21.60	20.35	20.84	31.67	13.77	15.20	15.60	13.72	18.19
21	13.80	13.75	13.96	48.45	20.54	20.72	28.96	14.32	15.10	24.60	13.73	21.75
22	13.70	13.87	13.86	48.92	20.61	20.69	27.80	15.07	14.20	21.90	13.73	19.68
23	13.70	13.76	13.78	48.09	21.12	21.51	26.18	15.27	14.70	20.60	13.86	19.67
24	13.80	13.78	13.75	48.09	25.41	23.43	25.54	14.23	15.40	17.20	13.73	14.52
25	13.70	13.75	14.05	33.67	38.28	20.77	25.02	14.62	14.00	16.00	13.72	13.79
26	13.50	13.76	13.75	28.88	40.36	19.61	25.94	14.93	14.60	16.00	13.85	14.35
27	13.90	13.75	14.74	27.20	35.46	20.98	31.48	15.33	14.20	16.30	13.73	18.27
28	13.90	13.75	14.56	24.32	28.69	20.95	33.00	14.57	14.20	16.10	14.35	27.36
29	13.90	13.80	14.12	22.27	---	20.72	27.87	14.78	14.90	14.90	13.74	24.65
30	13.90	13.77	14.98	21.25	---	20.81	25.23	16.17	16.00	14.80	16.21	18.73
31	13.70	---	14.47	21.07	---	16.75	---	17.30	---	16.00	16.80	---
MEAN	13.70	13.77	14.42	25.55	22.24	27.84	32.46	17.01	15.53	16.27	14.38	17.43
MAX	14.20	14.00	19.83	48.92	40.36	57.14	62.67	23.61	19.80	24.60	16.80	27.36
MIN	13.30	13.60	13.74	13.94	14.65	16.75	13.92	13.77	13.80	13.60	13.70	13.72

02465493 ELLIOTTS CREEK AT MOUNDVILLE, AL

LOCATION.--Lat 32°59'50", long 87°37'20", in W½ sec. 6, T. 23 N., R. 5 E., Hale County, Hydrologic Unit 03160113, on downstream side of bridge on State Highway 69 at Moundville, 2.5 mi (4.0 km) above Southern Railroad, and 6.6 mi (10.6 km) upstream from mouth.

DRAINAGE AREA.--31.2 mi^2 (80.8 km^2).

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 147.81 ft (45.052 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Records of specific conductance and water temperature for the water year 1979 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2600 ft^3/s (73.6 m^3/s) Apr. 13, 1979, gage height, 7.40 ft (2.256 m); minimum, 13 ft^3/s (0.37 m^3/s) Oct. 30, 31, Nov. 1, 4, 5, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft^3/s (12.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	1300	968	27.4	6.64	2.024	Apr. 13	1030	*2600	73.6	*7.40	2.256

Minimum discharge, 13 ft^3/s (0.37 m^3/s) Oct. 30, 31, Nov. 1, 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	14	31	70	43	66	45	58	49	23	27	31
2	17	14	22	92	37	60	57	53	37	22	23	48
3	16	14	20	58	42	292	119	50	41	33	23	42
4	16	14	45	35	50	718	218	55	39	30	23	31
5	15	14	51	31	43	298	178	64	35	26	21	26
6	15	14	30	33	52	159	93	58	32	54	20	21
7	15	16	23	78	91	119	70	48	30	70	19	19
8	15	17	31	86	78	96	83	44	28	48	19	18
9	15	16	110	48	51	80	126	41	27	39	19	18
10	15	15	83	35	43	72	95	40	27	174	18	18
11	15	15	32	33	40	77	67	38	27	69	41	17
12	15	15	26	32	38	67	170	41	32	55	105	17
13	15	15	24	32	37	55	1620	68	27	44	58	53
14	16	15	23	31	36	51	536	64	25	36	28	74
15	15	16	22	28	35	46	268	45	24	36	22	48
16	15	16	25	27	34	42	182	37	24	29	20	28
17	15	19	27	27	33	40	137	34	24	26	20	32
18	15	27	25	29	55	39	111	32	24	25	19	36
19	15	21	23	35	58	38	94	31	24	33	19	35
20	15	17	23	125	42	38	82	30	23	56	19	45
21	15	17	40	180	42	42	74	29	23	92	18	96
22	14	16	38	130	41	44	69	28	23	78	18	72
23	14	17	27	81	42	66	72	29	25	50	19	43
24	14	17	42	98	139	77	84	32	39	35	28	32
25	14	17	44	79	157	48	79	32	52	44	31	28
26	14	17	33	56	93	40	156	29	39	83	24	27
27	15	24	26	83	64	37	183	28	30	69	23	28
28	14	29	25	77	54	37	113	29	27	39	22	28
29	14	35	25	52	---	35	74	37	26	33	21	27
30	14	48	37	46	---	34	64	66	24	34	24	25
31	14	---	42	48	---	36	---	73	---	36	35	---
TOTAL	463	561	1075	1895	1570	2949	5319	1343	907	1521	826	1063
MEAN	14.9	18.7	34.7	61.1	56.1	95.1	177	43.3	30.2	49.1	26.6	35.4
MAX	17	48	110	180	157	718	1620	73	52	174	105	96
MIN	14	14	20	27	33	34	45	28	23	22	18	17
CFSM	.48	.60	1.11	1.96	1.80	3.05	5.67	1.39	.97	1.57	.85	1.14
IN.	.55	.67	1.28	2.26	1.87	3.52	6.34	1.60	1.08	1.81	.98	1.27

CAL YR 1978 TOTAL 12420 MEAN 34.0 MAX 221 MIN 14 CFSM 1.09 IN 14.81
WTR YR 1979 TOTAL 19492 MEAN 53.4 MAX 1620 MIN 14 CFSM 1.71 IN 23.24

02466030 BLACK WARRIOR RIVER AT WARRIOR LOCK AND DAM, NEAR EUTAW, AL

LOCATION.--Lat 32°46'46", long 87°50'37", in SW¼ sec. 24, T. 21 N., R. 2 E., Hale County, Hydrologic Unit 03160113, on left bank at dam, 0.4 mi (0.6 km) upstream from Jenny Watson Creek, 5.0 mi (8.0 km) southeast of Eutaw, and at mile 49.6 (79.8 km).

DRAINAGE AREA.--5,800 mi^2 (15,022 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 50.00 ft (15.240 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Water-discharge record good except those for period of no gage-height record Apr. 15-18, which are poor. Some regulation by Lewis Smith Reservoir on Sipsey Fork (station 02451950), by Bankhead lock and dam on Black Warrior River, usable capacity, 112,000 acre-ft (138 hm^3), Holt lock and dam on Black Warrior River, usable capacity, 115,000 acre-ft (142 hm^3), and lock and dam at gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 222,000 ft^3/s (6,290 m^3/s) Apr. 16, 1979; maximum gage height, 58.87 ft (17.944 m) Apr. 16, 1979; minimum daily discharge, 486 ft^3/s (13.8 m^3/s) Oct. 19, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 222,000 ft^3/s (6,290 m^3/s) Apr. 16; maximum gage height, 58.87 ft (17.944 m) Apr. 16; minimum daily, 758 ft^3/s (21.5 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	758	1030	1240	3890	12400	23600	3370	16000	9030	2420	3610	7630
2	1760	1010	1190	15600	12500	18400	9340	11200	7640	1320	4500	5420
3	2860	988	1050	23400	12000	21300	18900	9990	7880	1210	4360	8480
4	923	1040	1410	16800	11500	46200	36000	11100	6080	3040	5340	10500
5	2600	1040	2630	12500	11600	83100	40200	10500	6670	2200	2490	8880
6	1050	974	4710	11000	11600	93600	36400	10200	5710	4670	1390	6440
7	1260	1060	4200	11400	12600	101000	30400	7260	5760	6660	4330	5840
8	861	1070	1610	17900	14700	95000	21500	8310	5190	5550	1870	3610
9	854	925	7760	21000	14900	78800	19800	7190	6090	1850	4250	1380
10	852	959	11100	13300	13500	66800	17800	7130	3850	9590	3260	1120
11	852	1010	8270	14400	12800	54500	16900	7560	3670	12000	4020	3100
12	1030	973	6740	10700	9810	28600	22500	5970	3680	9140	4910	3160
13	1140	931	2730	10900	10100	23500	62700	9450	4230	5280	5000	7940
14	853	1010	2250	8940	9470	17700	120000	10300	4500	5070	5100	8470
15	852	910	4640	8730	9000	15300	198000	8550	3800	4830	5140	7470
16	851	897	1630	9630	9960	13600	222000	8390	4300	2260	1760	3380
17	884	1080	1430	9150	8370	12900	167000	6590	2130	3490	4150	3710
18	1160	944	1160	8270	7910	11000	138000	5500	1400	3300	3330	11400
19	928	1020	1740	9780	5640	11300	86100	4320	3210	3800	1570	12400
20	915	1490	1680	15800	10600	11300	71700	1590	3670	4820	3360	10000
21	957	1010	1780	37100	11600	11000	53800	2650	4050	12600	1810	11100
22	975	1260	2520	53000	11200	10900	40700	4890	1480	13000	2110	11900
23	1010	1310	2990	75000	11900	11800	20800	4690	4030	11300	1920	11700
24	942	1050	2030	72100	19000	14800	20600	2530	3660	8670	3350	9610
25	1010	997	3300	61300	31600	13500	18300	4340	1850	5140	3040	4530
26	1010	947	1930	33100	36700	11900	18300	4000	2950	6800	2550	2350
27	975	963	5380	24900	36000	10800	21500	3080	2580	7160	3820	3850
28	1080	1030	5420	20100	30100	11600	26300	3360	2520	6220	3200	7270
29	996	1600	4690	16600	---	11300	25000	5010	3090	3030	4180	15300
30	1060	2480	6700	14200	---	10800	18900	7040	5220	3830	3720	16400
31	994	---	5210	13200	---	8120	---	8200	---	5850	6270	---
TOTAL	34252	33008	111120	673690	409060	954020	1602810	216890	129920	176100	109710	224340
MEAN	1105	1100	3585	21730	14610	30770	53430	6996	4331	5681	3539	7478
MAX	2860	2480	11100	75000	36700	101000	222000	16000	9030	13000	6270	16400
MIN	758	897	1050	3890	5640	8120	3370	1590	1400	1210	1390	1120
CFSM	.19	.19	.62	3.75	2.52	5.31	9.21	1.21	.75	.98	.61	1.29
IN.	.22	.21	.71	4.32	2.62	6.12	10.28	1.39	.83	1.13	.70	1.44

CAL YR 1978 TOTAL 2344357 MEAN 6423 MAX 45700 MIN 753 CFSM 1.11 IN 15.04
WTR YR 1979 TOTAL 4674920 MEAN 12810 MAX 222000 MIN 758 CFSM 2.21 IN 29.98

02466031 BLACK WARRIOR RIVER BELOW WARRIOR DAM NEAR EUTAW, AL
(National stream-quality accounting network station)

LOCATION.--Lat 32°46'44", long 87°50'39", in sec. 24, T. 21 N., R. 2 E., Hale County, Hydrologic Unit 03160113, 0.3 mi (0.5 km) downstream from Warrior dam, 0.3 mi (0.5 km) upstream from Jenny Watson Creek, and 4.6 mi (7.4 km) southeast of Eutaw.

DRAINAGE AREA.--5,800 mi^2 (15,022 km^2), approximately.

PERIOD OF RECORD.--February 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February 1978 to current year.
WATER TEMPERATURE: February 1978 to current year.

REMARKS.--Interruptions in conductance and temperature data due to malfunctions of equipment.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 222 micromhos Sept. 9, 1979; minimum daily, 82 micromhos Apr. 19-21, 1979.
WATER TEMPERATURE: Maximum daily, 33.0°C July 8, 1978; minimum daily, 5.0°C Feb. 25, 1978, and Feb. 2, 1979.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 222 micromhos Sept. 9; minimum daily, 82 micromhos Apr. 19-21.
WATER TEMPERATURE: Maximum daily, 30.5°C Aug. 8-12; minimum daily, 5.0°C Feb. 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
20...	1030	847	203	7.6	20.5	4.0	9.2	18	8	66	29
NOV											
17...	1100	844	170	7.4	19.0	5.0	9.5	6	8	41	20
DEC											
12...	1145	844	165	7.0	13.0	30	10.0	230	89	50	29
JAN											
08...	1100	19600	280	7.2	9.0	15	11.0	270	85	95	60
FEB											
05...	1230	11500	114	6.7	6.5	30	11.7	74	31	38	26
MAR											
21...	1030	10400	128	6.7	14.0	20	10.2	300	30	40	24
APR											
25...	1030	19800	115	6.9	18.0	30	8.2	190	110	39	27
MAY											
08...	1100	8310	155	7.3	20.0	7.0	9.5	58	28	48	30
JUN											
20...	1200	4110	188	7.4	27.0	5.0	8.0	54	13	58	33
JUL											
17...	1130	4300	---	7.2	29.0	15	7.6	17	8	63	37
AUG											
15...	1030	6840	---	6.8	27.0	10	7.2	26	12	44	18
SEP											
25...	1115	3170	165	6.8	24.0	9.0	7.3	84	56	56	38

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
OCT											
20...	13	8.1	14	31	.8	16	2.5	45	0	37	1.8
NOV											
17...	8.9	4.6	14	41	1.0	16	2.2	26	0	21	1.7
DEC											
12...	10	6.0	12	33	.7	14	2.4	26	0	21	4.2
JAN											
08...	20	11	17	27	.8	20	3.1	43	0	35	4.3
FEB											
05...	8.0	4.3	4.8	21	.3	6.5	1.7	15	0	12	4.8
MAR											
21...	8.4	4.7	7.5	28	.5	9.0	1.5	20	0	16	6.4
APR											
25...	8.1	4.6	4.1	18	.3	5.6	1.5	15	0	12	3.0
MAY											
08...	10	5.5	6.1	21	.4	7.8	1.7	22	0	18	1.8
JUN											
20...	12	6.7	8.8	24	.5	11	2.1	30	0	25	1.9
JUL											
17...	13	7.4	11	27	.6	13	2.1	32	0	26	3.2
AUG											
15...	9.8	4.7	7.2	25	.5	9.2	2.0	32	0	26	8.1
SEP											
25...	12	6.4	13	32	.8	15	2.3	26	0	18	6.6

02466031 BLACK WARRIOR RIVER BELOW WARRIOR DAM NEAR EUTAW, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)
OCT											
20...	45	9.3	.1	2.6	112	117	.15	256	.21	.04	--
NOV											
17...	30	14	.1	2.2	93	90	.13	212	.28	.10	--
DEC											
12...	45	6.4	.1	5.5	--	90	.12	205	.36	.06	--
JAN											
08...	66	16	.2	5.9	158	165	.21	8360	.94	.20	--
FEB											
05...	28	3.6	.1	6.4	--	64	.09	1990	.72	.12	--
MAR											
21...	37	3.2	.1	6.2	74	81	.10	2080	.61	.04	--
APR											
25...	30	2.9	.1	6.2	--	67	.09	3580	.46	.11	.13
MAY											
08...	37	4.1	.1	6.1	87	84	.12	1950	.62	.05	.06
JUN											
20...	46	4.4	.1	5.1	100	102	.14	1110	.50	.04	.05
JUL											
17...	47	5.7	.1	6.1	--	110	.15	1280	.53	.05	.06
AUG											
15...	39	5.8	.1	4.7	--	90	.12	1660	.43	.04	.05
SEP											
25...	44	5.7	.1	5.9	--	104	.14	890	.58	.08	.10

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT									
20...	.25	.29	.08	.21	.50	2.2	.02	--	.01
NOV									
17...	.22	.32	.11	.21	.60	2.7	.01	--	.00
DEC									
12...	.21	.27	.08	.19	.63	2.8	.03	--	.01
JAN									
08...	.42	.62	.08	.54	1.6	6.9	.06	--	.02
FEB									
05...	.26	.38	.22	.16	1.1	4.9	.04	--	.00
MAR									
21...	.24	.28	.01	.27	.89	3.9	.03	--	.01
APR									
25...	.36	.47	.21	.26	.93	4.1	.03	.09	.00
MAY									
08...	.27	.32	.00	.32	.94	4.2	.02	.06	.00
JUN									
20...	.24	.28	.11	.17	.78	3.5	.02	.06	.00
JUL									
17...	.23	.28	.06	.22	.81	3.6	.03	.09	.01
AUG									
15...	.23	.27	.03	.24	.70	3.1	.03	.09	.01
SEP									
25...	.21	.29	.08	.21	.87	3.9	.03	.09	.01

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)
NOV										
17...	1	0	0	0	0	0	0	0	<10	<10
JAN										
08...	6	1	0	0	0	--	0	8	<10	<10
MAR										
21...	1	0	0	0	0	4	1	3	10	10
APR										
25...	2	1	0	0	0	1	0	2	20	10
MAY										
08...	1	1	0	0	0	0	0	0	<10	0
JUL										
17...	1	1	--	0	30	1	1	0	--	0

02466031 BLACK WARRIOR RIVER BELOW WARRIOR DAM NEAR EUTAW, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
NOV										
17...	0	0	0	0	0	0	0	320	310	10
JAN										
08...	0	--	0	3	1	1	0	1100	1000	90
MAR										
21...	0	3	1	2	2	1	1	1000	920	80
APR										
25...	10	3	2	1	11	10	1	2000	1900	140
MAY										
08...	<10	2	0	2	2	1	1	570	570	1
JUL										
17...	20	0	0	0	2	0	2	790	710	80

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)
NOV									
17...	1	0	2	60	60	0	<.5	.0	<.5
JAN									
08...	--	0	42	230	100	130	<.5	.0	<.5
MAR									
21...	35	2	33	240	10	230	.5	.0	.5
APR									
25...	5	3	2	250	20	230	.5	.0	.5
MAY									
08...	0	0	0	--	0	240	<.5	.0	<.5
JUL									
17...	7	6	1	80	80	2	<.5	.0	<.5

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
NOV									
17...	0	0	0	0	0	0	20	10	10
JAN									
08...	0	0	0	0	0	0	20	0	20
MAR									
21...	0	0	0	0	0	0	10	0	10
APR									
25...	0	0	0	0	0	0	260	250	10
MAY									
08...	0	0	0	0	0	0	10	10	0
JUL									
17...	0	0	0	1	0	1	10	4	6

02466031 BLACK WARRIOR RIVER BELOW WARRIOR DAM NEAR EUTAW, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
OCT								
20...	2.4	--	--	--	6.54	5.12	62.4	12.2
NOV								
17...	--	2.6	.5	5400	20.6	16.6	48.1	8.56
DEC								
12...	3.0	--	--	--	--	--	--	--
FEB								
05...	3.1	--	--	--	--	--	--	--
MAR								
21...	--	2.4	.3	1500	--	--	--	--
APR								
25...	--	4.0	1.0	350	--	--	--	--
MAY								
08...	--	2.2	.7	1200	--	--	--	--
JUN								
20...	2.5	--	--	1800	--	--	--	--
JUL								
17...	--	3.2	--	--	--	--	40.0	2.20
AUG								
15...	3.2	--	--	11000	3.07	2.76	9.52	.830
SEP								
25...	5.1	--	--	1700	3.07	2.60	9.19	1.57

DATE	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT				APR			
20...	9	21	98	25...	50	2670	87
NOV				MAY			
17...	11	25	98	08...	9	202	98
DEC				JUN			
12...	34	77	95	20...	9	100	96
JAN				JUL			
08...	38	2010	96	17...	17	197	97
FEB				AUG			
05...	22	683	92	15...	16	295	97
MAR				SEP			
21...	25	702	94	25...	18	154	--

02466031 BLACK WARRIOR RIVER BELOW WARRIOR DAM NEAR EUTAW, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	JUL 20,78	AUG 11,78	SEP 18,78	NOV 17,78	MAR 21,79
TIME	1300	1200	1245	1100	1030
TOTAL CELLS/ML	35000	35000	18000	5400	1500
DIVERSITY: DIVISION	1.4	0.6	1.6	1.5	1.3
.CLASS	1.4	0.6	1.6	1.5	1.3
..ORDER	1.6	0.9	2.0	2.0	1.5
...FAMILY	1.9	0.9	2.0	2.3	1.6
....GENUS	2.0	1.2	2.9	3.3	2.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...COELASTRACEAE										
....COELASTRUM	320	1	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....MICRACTINIUM	1500	4	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	380	1	180	1	89	2	25	2
....CHODATELLA	--	-	580	2	*	0	110	2	--	-
....DICTYOSPHAERIUM	480	1	--	-	--	-	--	-	340#	22
....FRANCEIA	*	0	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	320	1	770	2	--	-	200	4	20	1
....SELENASTRUM	320	1	--	-	--	-	130	2	--	-
....TETRAEDRON	--	-	--	-	--	-	44	1	--	-
....TREUBARIA	--	-	--	-	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	640	2	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	1700	10	130	2	--	-
....SCENEDESMUS	480	1	770	2	2000	12	330	6	51	3
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-
...PALMELLACEAE										
....SPHAEROCYSTIS	720	2	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE	--	-	--	-	--	-	--	-	--	-
....CARTERIA	--	-	--	-	*	0	66	1	--	-
....CHLAMYDOMONAS	--	-	--	-	300	2	44	1	30	2
..ZYGNEMATALES										
...DESMIDIACEAE										
....STAURASTRUM	--	-	--	-	*	0	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	18000#	51	28000#	82	4600#	26	330	6	61	4
....MELOSIRA	400	1	770	2	240	1	1600#	30	56	4
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	270	5	--	-
...FRAGILARIACEAE										
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	*	0	1500	4	--	-	--	-	15	1
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....DIPLONEIS	--	-	--	-	--	-	*	0	--	-
...NITZSCHIACEAE										
....NITZSCHIA	*	0	--	-	*	0	310	6	*	0
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	--	-	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

02466031 BLACK WARRIOR RIVER BELOW WARRIOR DAM NEAR EUTAW, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	JUL 20,78		AUG 11,78		SEP 18,78		NOV 17,78		MAR 21,79	
TIME	1300		1200		1245		1100		1030	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	2300	13	710	13	--	-
....ANACYSTIS	11000#	32	1300	4	3800#	22	350	7	890#	58
....COCCOCHLORIS	--	-	--	-	--	-	--	-	25	2
....GOMPHOSPHAERIA	--	-	--	-	1100	6	620	11	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	960	5	--	-	--	-
...RIVULARIACEAE										
....RAPHIDIOPSIS	640	2	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

02466031 BLACK WARRIOR RIVER BELOW WARRIOR DAM NEAR EUTAW, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	APR 25,79		MAY 8,79		JUN 20,79		AUG 15,79		SEP 25,79	
TIME	1030		1100		1200		1030		1115	
TOTAL CELLS/ML	350		1200		1800		11000		1700	
DIVERSITY: DIVISION	1.2		1.4		1.4		1.2		1.3	
.CLASS	1.2		1.4		1.4		1.2		1.3	
..ORDER	1.9		2.1		1.9		1.4		1.8	
...FAMILY	2.1		2.5		1.9		1.5		2.4	
....GENUS	2.1		0.0		2.2		2.1		2.7	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	340	3	--	-
...MICRACTINIACEAE										
....MICRACTINIUM	--	-	29	2	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	200#	17	--	-	--	-	13	1
....CHODATELLA	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	200#	17	--	-	340	3	--	-
....FRANCEIA	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	14	1	--	-	--	-	--	-
....OOCYSTIS	14	4	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	13	1
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	29	2	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	--	-	51	3
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	83#	24	86	7	510#	28	280	2	51	3
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	--	-	59	1	--	-
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE	--	-	72	6	--	-	--	-	--	-
....CARTERIA	--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	39	2
..ZYGNEMATALES										
...DESMIDIACEAE										
....STAURASTRUM	--	-	--	-	--	-	*	0	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	14	4	14	1	51	3	6600#	58	140	8
....MELOSIRA	--	-	100	8	170	9	1200	11	300#	17
....STEPHANODISCUS	--	-	--	-	13	1	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....FRAGILARIA	--	-	14	1	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	59	1	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	13	1	--	-	--	-
...NAVICULACEAE										
....DIPLONEIS	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	14	4	--	-	13	1	59	1	39	2
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

02466031 BLACK WARRIOR RIVER BELOW WARRIOR DAM NEAR EUTAW, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	APR 25,79		MAY 8,79		JUN 20,79		AUG 15,79		SEP 25,79	
TIME	1030		1100		1200		1030		1115	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	190	10	630	6	--	-
....ANACYSTIS	140#	40	140	12	100	6	1600	14	130	8
....COCCOCHLORIS	--	-	--	-	--	-	--	-	--	-
....GOMPHOSPHAERIA	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	290#	24	--	-	--	-	--	-
....OSCILLATORIA	83#	24	--	-	770#	42	--	-	620#	36
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	260	2	310#	18
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	14	1	--	-	--	-	13	1
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

02466031 BLACK WARRIOR RIVER BELOW WARRIOR DAM NEAR EUTAW, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	171	116	---	89	160	136	122	136	190	168	205
2	177	172	156	---	95	195	---	128	132	189	165	200
3	176	166	157	---	93	142	138	132	137	196	157	198
4	180	160	153	---	104	118	127	130	143	199	157	197
5	181	165	142	---	102	100	134	128	144	199	158	189
6	180	166	130	---	98	106	134	136	159	199	158	195
7	182	160	134	---	98	101	129	149	159	202	163	196
8	181	155	134	---	96	107	130	155	155	198	177	196
9	181	149	135	180	104	90	132	134	155	196	165	222
10	179	150	148	190	122	90	150	133	156	206	164	200
11	181	150	150	190	131	86	139	133	162	206	164	199
12	159	152	163	190	112	85	136	119	178	206	164	---
13	176	156	154	170	143	88	---	130	170	205	176	---
14	180	176	154	180	147	97	90	122	168	206	173	191
15	181	163	154	190	150	98	92	126	173	206	165	196
16	177	159	165	190	147	112	90	154	173	206	150	180
17	179	---	160	200	148	98	89	141	176	206	149	181
18	178	156	170	190	150	88	87	140	175	204	155	183
19	179	158	158	190	132	120	82	140	178	185	150	180
20	---	140	158	---	136	120	82	140	175	186	151	182
21	178	145	154	---	144	---	82	132	173	184	168	184
22	179	142	157	140	152	120	97	132	176	188	170	179
23	198	142	156	160	152	124	102	150	176	184	174	175
24	182	142	160	140	150	124	102	137	---	192	170	176
25	203	142	164	100	144	108	118	128	176	180	170	177
26	192	152	164	110	143	107	120	129	180	180	175	184
27	193	155	140	110	138	132	119	120	195	180	185	177
28	184	115	---	84	152	148	127	121	194	185	194	175
29	176	115	---	89	---	148	128	133	194	172	190	178
30	177	115	---	90	---	148	129	128	190	156	---	178
31	177	---	---	87	---	148	---	132	---	167	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.0	20.0	20.0	---	7.0	9.5	16.0	18.0	23.0	27.0	27.0	30.0
2	27.0	21.0	17.0	---	5.0	14.0	---	18.0	23.0	26.0	27.0	29.5
3	27.0	21.0	17.0	---	6.0	10.0	17.0	18.0	23.0	27.0	29.0	29.0
4	26.0	20.0	17.0	---	6.0	10.0	17.0	18.0	24.0	28.0	29.0	28.5
5	26.0	20.0	17.0	---	7.0	9.0	17.0	18.0	24.0	28.0	29.0	29.0
6	26.0	20.0	16.0	---	7.0	12.0	17.0	17.0	24.0	28.0	29.0	28.0
7	24.0	20.0	16.0	---	7.0	13.0	17.0	19.0	24.5	29.5	29.5	28.0
8	24.0	19.0	16.0	---	9.0	12.0	17.0	20.0	25.0	28.0	30.5	28.0
9	24.0	19.0	10.0	12.0	6.0	13.0	17.0	21.0	25.0	27.5	30.5	28.0
10	23.0	19.0	9.0	12.0	6.0	13.0	16.0	21.0	25.0	28.0	30.5	28.0
11	23.0	19.0	14.0	12.0	6.0	11.0	17.0	21.0	24.0	28.0	30.5	28.0
12	22.0	19.0	14.0	12.0	6.0	12.0	18.0	22.0	26.0	28.0	30.5	---
13	24.0	19.0	14.0	12.0	8.0	13.0	---	22.0	27.0	28.0	29.0	---
14	23.0	19.0	14.0	12.0	8.0	13.0	17.0	---	26.0	28.0	29.0	27.0
15	22.0	19.0	14.0	10.0	8.0	14.0	16.0	19.0	26.5	28.5	---	26.0
16	22.0	19.0	13.0	12.0	8.0	12.0	16.0	19.0	26.0	28.0	29.0	25.0
17	22.0	19.0	14.0	11.0	8.0	14.0	17.0	18.0	25.0	28.0	29.0	25.0
18	21.0	19.0	12.0	12.0	8.0	13.0	17.0	22.0	26.0	30.0	29.0	25.0
19	21.0	19.0	12.0	12.0	8.0	14.0	18.0	22.0	26.0	27.0	29.0	29.0
20	21.0	18.0	12.0	---	7.5	14.0	18.0	22.0	25.0	28.0	29.0	29.0
21	21.0	18.0	12.0	---	7.5	15.0	18.0	23.0	28.0	27.0	29.0	29.0
22	21.0	20.0	12.0	10.0	8.0	15.0	18.0	23.0	26.0	27.0	29.0	29.0
23	20.0	18.0	12.0	12.0	8.0	15.0	17.0	23.0	26.5	27.0	29.0	27.0
24	20.0	19.0	15.0	10.0	8.0	14.0	17.0	23.0	---	26.0	29.0	26.0
25	20.0	19.0	14.0	10.0	7.5	13.5	18.0	24.0	26.0	27.0	29.0	---
26	21.0	18.0	14.0	10.0	7.5	13.0	17.0	23.0	27.0	27.0	---	24.0
27	21.0	19.0	14.0	10.0	8.5	13.0	16.0	25.0	25.0	27.0	---	23.0
28	21.0	16.0	---	10.0	10.0	13.0	17.0	25.0	2.0	27.0	29.0	23.0
29	20.0	16.0	---	8.0	---	13.0	17.0	23.0	25.0	27.0	29.5	23.0
30	22.0	16.0	---	8.0	---	13.0	17.0	23.0	26.0	28.0	30.0	23.0
31	22.0	---	---	7.0	---	13.0	---	23.0	---	27.0	29.0	---

02466040 BLACK WARRIOR RIVER BELOW WARRIOR LOCK AND DAM NEAR EUTAW, AL

LOCATION.--Lat 32°46'10", long 87°49'40", in N½ sec. 30, T. 21 N., R. 3 E., Hale County, Hydrologic Unit 03160112, on downstream side of lock, 1.4 mi (2.2 km) upstream from Presley Ford Branch, 6 mi (9.7 km) west of Sawyerville, and at mile 43.8 (70.5 km).

DRAINAGE AREA.--5,820 mi^2 (15,074 km^2).

PERIOD OF RECORD.--October 1971 to current year (gage heights only). Unpublished records from October 1957 to September 1971 available in files of Corps of Engineers.

GAGE.--Nonrecording gage. Datum of gage is 59.76 ft (18.215 m) National Geodetic Vertical Datum of 1929 (levels by the Corps of Engineers).

COOPERATION.--Records furnished by U.S. Corps of Engineers.

EXTREMES (0700) FOR PERIOD OF RECORD.--Maximum gage height, 50.1 ft (15.27 m) Feb. 25, 1961; minimum, 13.3 ft (4.05 m) Aug. 10, 1960.

EXTREMES (0700) FOR CURRENT YEAR.--Maximum gage height, 47.00 ft (14.326 m) Apr. 16; minimum, 13.8 ft (4.21 m) Nov. 8, 15, 16.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	13.90	14.30	15.00	21.20	26.90	16.60	21.00	17.20	15.10	15.10	---
2	---	13.90	14.10	17.80	20.20	23.60	16.90	19.80	17.30	14.50	15.20	---
3	---	13.90	14.20	21.40	19.50	22.40	19.60	17.60	17.60	14.20	15.10	---
4	---	13.90	14.20	22.90	18.80	30.20	24.40	17.20	17.20	14.30	15.70	---
5	---	13.90	14.30	19.50	18.60	35.00	29.10	17.90	17.00	14.60	15.00	---
6	---	13.90	14.40	19.50	18.40	37.60	30.40	17.70	16.90	14.60	14.50	---
7	---	13.90	15.10	18.60	19.10	40.10	28.90	17.70	16.30	16.00	15.00	---
8	---	13.80	15.00	20.10	20.00	41.20	25.80	17.30	16.40	15.50	14.50	---
9	---	13.90	15.70	22.80	20.00	40.80	23.80	17.60	16.00	15.00	14.90	---
10	---	13.90	16.90	22.10	20.00	39.20	22.80	17.30	16.10	16.00	14.90	---
11	---	14.00	17.20	20.80	19.40	37.00	22.10	17.70	15.20	18.30	14.70	---
12	---	13.90	16.30	19.80	19.00	33.80	21.40	17.20	15.40	18.50	15.20	---
13	---	13.90	15.80	19.00	17.70	28.70	32.60	16.90	15.10	17.30	15.70	---
14	---	13.90	15.00	18.90	17.90	23.80	37.70	18.80	15.10	16.80	15.20	---
15	---	13.80	15.30	18.30	17.20	21.10	44.10	17.60	15.10	16.60	15.50	---
16	---	13.80	15.00	17.60	17.60	19.50	47.00	17.50	15.00	16.90	---	---
17	---	13.90	14.70	17.80	17.40	19.20	46.70	16.80	14.60	16.90	---	---
18	14.00	13.90	14.50	17.30	16.80	18.20	45.30	16.50	14.50	16.60	---	---
19	13.90	13.90	14.70	16.80	17.00	18.40	43.30	15.20	14.50	16.10	---	---
20	13.90	14.00	14.50	17.40	17.90	18.00	41.30	15.00	15.00	15.70	---	---
21	13.90	13.90	14.50	25.90	18.80	17.70	39.10	14.90	14.90	16.00	---	---
22	14.20	14.20	14.50	31.30	18.90	18.00	36.70	15.60	14.80	19.20	---	---
23	13.90	14.40	15.10	33.70	18.60	17.80	33.40	15.70	14.60	18.40	---	---
24	13.90	14.20	14.70	35.00	20.80	19.10	29.40	15.40	14.90	18.00	---	---
25	13.90	14.00	15.00	34.90	25.20	20.00	26.20	15.10	14.90	15.90	---	---
26	13.90	14.00	14.50	33.40	28.80	19.10	21.90	15.20	15.00	16.00	---	17.80
27	13.90	14.00	15.00	29.80	30.40	18.50	22.10	15.00	15.10	16.20	---	17.50
28	13.90	14.00	15.20	26.50	29.90	19.00	24.10	15.10	15.00	16.10	---	17.50
29	13.90	14.20	15.20	24.00	---	18.80	24.90	15.40	14.90	15.50	---	18.40
30	13.90	14.40	15.90	23.10	---	18.80	23.00	16.20	15.20	15.10	---	20.40
31	13.90	---	15.60	22.00	---	18.20	---	16.80	---	15.80	---	---
MEAN	---	13.97	15.05	22.68	20.18	25.15	30.02	16.80	15.56	16.18	---	---
MAX	---	14.40	17.20	35.00	30.40	41.20	47.00	21.00	17.60	19.20	---	---
MIN	---	13.80	14.10	15.00	16.80	17.70	16.60	14.90	14.50	14.20	---	---

02467000 TOMBIGBEE RIVER AT DEMOPOLIS LOCK AND DAM, NEAR COATOPA, AL

LOCATION.--Lat 32°31'15", long 87°52'39", in NW¼ sec. 22, T. 18 N., R. 2 E., Marengo County, Hydrologic Unit 03160201, on left bank 100 ft (30 m) upstream from lock and dam, 0.5 mi (0.8 km) downstream from Foscue Creek, 2.5 mi (4.0 km) west of Demopolis, 3.5 mi (5.6 km) upstream from Hall Creek, 13 mi (21 km) east of Coatopa, and at mile 171.2 (275.5 km).

DRAINAGE AREA.--15,400 mi^2 (39,900 km^2), approximately.

PERIOD OF RECORD.--August 1928 to current year. Published as "near Coatopa" 1928-55.

REVISED RECORDS.--WSP 782: 1934. WSP 952: 1941.

GAGE.--Water-stage recorder. Datum of gage is 56.00 ft (17.069 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 31, 1939, nonrecording gage, and Nov. 1, 1939 to Sept. 30, 1955, water-stage recorder at site 11.6 mi (18.7 km) downstream at datum 26.70 ft (8.138 m) lower.

REMARKS.--Records fair except those below 2,000 ft^3/s (56.6 m^3/s) which are poor. Some regulation by Lewis Smith Reservoir on Sipsey Fork (station 02451950), Bankhead lock and dam on Black Warrior River, usable capacity, 112,000 acre-ft (138 hm^3), Holt lock and dam on Black Warrior River, usable capacity, 115,000 acre-ft (142 hm^3), and lock at gage. Diversion through lock valves included in figures of discharge.

AVERAGE DISCHARGE.--51 years, 23,020 ft^3/s (651.9 m^3/s), 22.30 in/yr (566 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 343,000 ft^3/s (9,710 m^3/s) Apr. 18, 1979, gage height, 37.03 ft (11.287 m); minimum daily, 50 ft^3/s (1.42 m^3/s) Aug. 1-6, 1954 (results of closure of and storage above Demopolis lock and dam during construction).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 343,000 ft^3/s (9,710 m^3/s) Apr. 18; maximum gage height, 37.03 ft (11.287 m); minimum daily discharge, 1150 ft^3/s (32.57 m^3/s) Oct. 10-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1660	1560	3900	10100	67200	82300	19500	32000	28600	7100	9150	12000
2	1240	1450	3250	32200	48500	74700	20900	27200	30600	4320	8380	10600
3	2090	1550	2990	55600	35600	75000	45300	21800	33000	3130	8310	14100
4	1730	1400	4240	53800	34300	110000	70500	20200	33400	3920	9680	19000
5	2000	1260	5680	51100	29700	132000	82600	25500	30700	4140	7280	20400
6	1310	1410	6110	47900	31200	146000	84400	29200	26400	4910	4510	16200
7	1520	1640	8940	50700	38900	158000	82000	31600	21300	8430	5470	13400
8	1240	1560	7930	62700	44800	168000	75500	33100	18000	10500	4940	9840
9	1260	1480	12300	70300	41200	170000	76000	36100	16400	10900	6030	6370
10	1150	1550	20700	65400	42100	165000	71200	36100	13900	21800	6120	4220
11	1150	1640	24500	59800	39500	153000	62200	34300	10900	35000	6430	5020
12	1280	1740	22200	52600	34400	129000	64100	30100	10300	37200	10200	5090
13	1520	1650	14400	46000	28500	96600	117000	31900	10000	32100	9140	16600
14	1530	1770	10100	41100	25200	63500	157000	38800	8760	30900	7950	31500
15	1180	1830	10800	33900	22900	43400	193000	33200	8030	32500	8330	39200
16	1400	1780	9600	28600	23100	32500	256000	29400	7550	32600	5510	39600
17	1330	2110	6270	25600	21300	30800	309000	22200	6460	31300	5640	37400
18	1430	2200	5240	21200	24500	28100	338000	17100	4930	25700	5690	41000
19	1420	2120	5660	20600	32800	24400	285000	12700	4810	17700	3550	46100
20	1450	2170	4520	37200	35400	24400	278000	10100	6090	14600	4670	47100
21	1640	2420	4070	78900	37800	22000	249000	8140	6300	18500	3890	50500
22	1570	2940	4920	98100	34800	23000	216000	11100	4860	26200	3020	56800
23	1540	3490	6480	106000	36000	26100	177000	10100	5150	25600	4480	58000
24	1550	3030	6710	113000	57300	36100	138000	8520	6800	23200	4640	56500
25	1460	2400	9070	119000	75600	41500	80200	9110	7290	17100	6050	51400
26	1590	2190	6010	120000	83200	42400	46300	9260	8360	15600	4270	45900
27	1840	2350	8090	118000	88600	42500	45400	7650	10100	16300	7370	41400
28	1630	2460	8520	111000	88700	40800	46700	8870	9500	14900	11500	34500
29	1530	2640	8520	103000	---	38300	44900	10000	7830	11100	10500	32000
30	1700	3920	11200	94300	---	30100	39600	18200	8570	9080	8910	33500
31	1630	---	9530	82700	---	27200	---	25600	---	11400	9710	---
TOTAL	46570	61710	272450	2010400	1203100	2276700	3770300	679150	404890	557730	211320	895240
MEAN	1502	2057	8789	64850	42970	73440	125700	21910	13500	17990	6817	29840
MAX	2090	3920	24500	120000	88700	170000	338000	38800	33400	37200	11500	58000
MIN	1150	1260	2990	10100	21300	22000	19500	7650	4810	3130	3020	4220
CFSM	.10	.13	.57	4.21	2.79	4.77	8.16	1.42	.88	1.17	.44	1.94
IN.	.11	.15	.66	4.86	2.91	5.50	9.11	1.64	.98	1.35	.51	2.16

CAL YR 1978 TOTAL 6021060 MEAN 16500 MAX 101000 MIN 1050 CFSM 1.07 IN 14.54
WTR YR 1979 TOTAL 12389560 MEAN 33940 MAX 338000 MIN 1150 CFSM 2.20 IN 29.93

02467001 TOMBIGBEE RIVER BELOW DEMOPOLIS LOCK AND DAM, NEAR COATOPA, AL

LOCATION.--Lat 32°31'15", long 87°52'48", in NW¼ sec. 22, T. 18 N., R. 2 E., Marengo County, Hydrologic Unit 03160201, on left bank at downstream end of lock and dam, 0.6 mi (1.0 km) downstream from Foscue Creek, 2.5 mi (4.0 km) west of Demopolis, 3.4 mi (5.5 km) upstream from Hall Creek, 13 mi (21 km) east of Coatopa, and at mile 171.1 (275.3 km).

DRAINAGE AREA.--15,400 mi^2 (39,900 km^2), approximately.

PERIOD OF RECORD.--July 1951 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. July 1951 to September 1971 in files of Corps of Engineers.

GAGE.--Nonrecording gage. Datum of gage is 20.00 ft (6.096 m) National Geodetic Vertical Datum of 1929.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 72.3 ft (22.04 m) Apr. 19, 1979; minimum, 11.0 ft (3.35 m) May 30, 1962.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 72.3 ft (22.04 m) Apr. 19; minimum, 12.5 ft (3.81 m) Oct. 10, 11, 12, 16, 17, 19, Nov. 4, 5, 6.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.80	12.60	13.20	15.30	49.30	49.30	22.90	31.00	23.80	15.60	16.50	---
2	12.60	12.60	13.00	21.20	43.60	47.50	19.80	26.70	25.20	14.00	16.20	---
3	12.60	12.60	13.20	31.60	36.90	45.40	27.20	23.30	26.00	13.60	15.50	---
4	13.00	12.50	13.40	35.30	32.10	51.80	39.70	21.20	27.30	13.10	15.70	---
5	12.70	12.50	13.70	34.70	28.80	58.20	47.40	22.70	26.70	13.80	15.70	---
6	12.80	12.50	13.60	33.00	26.30	60.10	49.80	24.40	25.50	13.40	14.20	---
7	12.60	12.60	15.00	31.80	29.20	61.20	49.70	26.30	22.50	14.80	13.60	---
8	12.60	12.60	15.30	35.90	32.80	61.90	48.30	26.40	20.90	16.00	14.00	---
9	12.60	12.60	15.40	39.60	32.40	62.30	47.90	27.80	19.40	17.20	13.50	---
10	12.50	12.60	18.80	40.90	31.60	62.20	47.30	28.30	19.00	18.60	14.40	---
11	12.50	12.70	21.30	38.70	30.50	61.70	45.00	28.50	17.00	25.60	14.40	---
12	12.50	12.70	21.60	37.00	28.90	60.10	42.40	26.50	16.60	29.00	16.00	---
13	12.60	12.80	19.40	33.10	26.00	57.60	50.50	26.10	16.20	28.00	16.80	---
14	12.60	12.80	16.30	31.20	24.00	52.60	59.80	30.20	15.80	26.00	15.40	---
15	12.60	12.80	15.60	28.30	22.80	46.20	63.40	29.40	15.50	26.00	---	29.10
16	12.50	12.90	16.20	25.40	22.20	39.30	67.30	27.00	15.10	26.50	---	30.70
17	12.50	12.70	15.70	23.80	22.20	33.50	70.80	24.00	15.10	25.90	---	30.40
18	12.60	12.90	13.90	21.90	21.20	28.90	72.20	21.10	14.30	24.80	---	30.50
19	12.50	12.90	13.70	20.60	26.50	24.60	72.30	18.70	13.40	21.40	---	32.00
20	12.60	12.90	13.80	21.80	28.10	23.30	71.30	17.60	14.50	18.60	---	32.60
21	12.60	13.00	13.50	38.60	29.30	22.40	69.80	15.70	14.10	18.60	---	32.70
22	12.60	13.00	13.30	48.60	29.30	22.00	68.00	16.40	14.50	22.30	---	36.30
23	12.60	13.10	14.20	52.40	28.20	22.40	66.00	16.40	13.60	23.80	---	37.80
24	12.70	13.10	14.20	54.90	32.50	27.30	62.90	16.30	14.20	23.50	---	37.90
25	12.60	12.80	15.20	56.90	42.20	30.50	57.80	15.80	15.30	21.40	---	36.70
26	12.70	12.80	14.60	57.70	46.40	31.20	51.20	16.00	15.00	19.60	---	34.30
27	12.70	13.10	14.20	58.20	48.50	30.80	45.70	15.80	16.00	19.80	---	31.80
28	12.60	12.70	15.20	57.60	49.50	30.30	41.60	15.70	16.10	19.20	---	29.30
29	12.60	12.80	15.00	56.40	---	29.70	38.70	15.60	15.60	18.80	---	26.40
30	12.60	13.20	15.60	54.80	---	27.00	35.80	18.10	15.40	16.20	---	26.90
31	12.70	---	15.80	52.50	---	24.90	---	22.10	---	16.10	---	---
MEAN	12.62	12.78	15.25	38.38	32.19	41.49	51.75	22.29	17.99	20.04	---	---
MAX	13.00	13.20	21.60	58.20	49.50	62.30	72.30	31.00	27.30	29.00	---	---
MIN	12.50	12.50	13.00	15.30	21.20	22.00	19.80	15.60	13.40	13.10	---	---

CAL YR 1978 MEAN 19.32 MAX 53.80 MIN 12.50

02467500 SUCARNOOCHEE RIVER AT LIVINGSTON, AL

LOCATION.--Lat 32°34'25", long 88°11'36", in SW¼ sec. 33, T. 19 N., R. 2 W., Sumter County, Hydrologic Unit 03160202, on right bank 10 ft (3 m) downstream from bridge on U.S. Highway 11, 500 ft (152 m) upstream from Southern Railway bridge, 0.8 mi (1.3 km) southwest of Livingston, and 9 mi (14 km) upstream from Alamuchee Creek.

DRAINAGE AREA.--606 mi^2 (1,570 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 90.04 ft (27.444 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 12, 1939, nonrecording gage at same site and datum.

REMARKS.--Water-discharge record good.

AVERAGE DISCHARGE.--41 years, 806 ft^3/s (22.83 m^3/s), 18.06 in/yr (459 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 62,200 ft^3/s (1760 m^3/s) Apr. 14, 1979, gage height, 33.47 ft (10.202 m); minimum, 49 ft^3/s (1.39 m^3/s) Sept. 11, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 24	1300	6,640	189	22.31	6.800	Mar. 5	2100	23,100	654	27.69	8.440
Feb. 27	2000	6,340	180	22.01	6.709	Apr. 14	1300	*62,200	1760	*33.47	10.202

Minimum discharge, 110 ft^3/s (3.12 m^3/s) Oct. 9, 10, 11, gage height, 2.88 ft (0.878 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	116	317	475	1110	4370	562	642	529	224	344	223
2	126	116	338	822	994	2850	872	599	447	212	493	297
3	123	118	240	984	922	3960	3200	567	488	193	718	273
4	118	119	222	1140	1300	10800	3950	620	518	185	644	300
5	116	120	316	840	1430	18700	4610	893	645	182	613	374
6	117	120	566	480	1570	17400	4520	1200	474	181	545	327
7	126	124	420	1200	2310	8230	4470	1010	397	208	406	256
8	118	129	327	1780	2450	5640	4370	731	372	376	329	219
9	114	168	496	1920	2410	3930	4190	617	336	1800	319	203
10	114	182	697	1920	1950	2160	3930	562	303	2530	269	190
11	113	160	1000	1640	1150	1300	3780	523	279	2800	260	182
12	114	146	708	756	872	1200	4430	587	436	2380	292	178
13	115	139	378	566	777	1080	21500	1790	468	1230	278	2440
14	116	139	291	518	709	939	55900	1550	315	826	357	2830
15	116	136	255	473	660	847	31300	1150	263	608	303	2980
16	123	136	236	425	625	773	10100	697	244	569	244	3120
17	130	139	223	386	587	716	6110	551	230	546	223	3250
18	122	141	227	372	1580	684	4570	479	219	459	214	2550
19	116	158	224	405	2290	660	2920	435	216	363	205	1360
20	116	202	212	2360	2480	634	1560	406	204	360	202	902
21	117	176	218	3340	2550	608	1120	383	198	558	206	2740
22	116	155	242	3850	2170	591	1030	364	194	1150	193	3220
23	116	150	374	4390	1610	1080	965	370	202	1300	216	3540
24	116	146	330	6410	3260	1190	1000	463	334	1210	229	3560
25	116	146	303	5560	3850	1200	1050	584	586	952	245	2810
26	114	147	355	4180	4830	917	1240	612	609	949	235	1120
27	116	150	322	3410	6010	685	1530	432	440	860	256	670
28	117	152	266	2780	5810	609	1020	370	327	821	269	593
29	117	205	233	2340	---	576	820	356	267	640	311	543
30	116	215	223	1920	---	548	700	510	238	492	276	491
31	117	---	248	1290	---	534	---	569	---	396	288	---
TOTAL	3660	4450	10807	58932	58266	95411	187319	20622	10778	25560	9982	41741
MEAN	118	148	349	1901	2081	3078	6244	665	359	825	322	1391
MAX	130	215	1000	6410	6010	18700	55900	1790	645	2800	718	3560
MIN	113	116	212	372	587	534	562	356	194	181	193	178
CFSM	.20	.24	.58	3.14	3.43	5.08	10.3	1.10	.59	1.36	.53	2.30
IN.	.22	.27	.66	3.62	3.58	5.86	11.50	1.27	.66	1.57	.61	2.56

CAL YR 1978 TOTAL 233518 MEAN 640 MAX 4290 MIN 113 CFSM 1.06 IN 14.33
WTR YR 1979 TOTAL 527528 MEAN 1445 MAX 55900 MIN 113 CFSM 2.38 IN 32.38

02467500 SUCARNOOCHEE RIVER AT LIVINGSTON, AL--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Miscellaneous samples of chemical data published for water years 1967 and 1968.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
10...	1617	116	46	--	18.0	--
NOV						
14...	1345	140	58	7.1	16.0	10.4
21...	0805	186	48	--	14.0	--
JAN						
04...	1532	1130	49	--	6.5	--
FEB						
12...	1605	847	81	--	7.0	--
MAR						
27...	1630	622	74	--	15.5	--
APR						
13...	1200	19700	66	7.0	18.0	8.8
MAY						
08...	1550	676	69	--	22.0	--
JUN						
19...	1605	229	72	--	27.0	--
JUL						
31...	0753	415	82	--	23.5	--

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
NOV											
14...	15	0	3.8	1.3	3.5	31	.4	1.7	20	0	16
APR											
13...	24	0	8.1	1.0	--	--	--	1.3	32	0	26

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)
NOV											
14...	2.5	2.4	3.8	.0	12	39	.05	14.7	.00	ND	<1
APR											
13...	5.1	--	1.8	.0	7.0	--	--	--	.08	.35	ND

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV											
14...	<1	1	ND	2	420	2	26	.2	ND	60	<5
APR											
13...	70	2	ND	10	270	4	10	<.2	ND	80	20

02468500 CHICKASAW BOGUE NEAR LINDEN, AL

LOCATION.--Lat 32°19'45", long 87°47'27", in SW¼ sec. 28, T. 16 N., R. 3 E., Marengo County, Hydrologic Unit 03160201, near left bank on downstream side of bridge on U.S. Highway 43, 1.5 mi (2.4 km) north of Linden, 2 mi (3 km) downstream from Atkin Creek, and 11 mi (18 km) upstream from mouth.

DRAINAGE AREA.--258 mi^2 (668 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1944 to September 1946, October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 63.45 ft (19.343 m) National Geodetic Vertical Datum of 1929. January 1944 to September 1946 nonrecording gage at site about 75 ft (23 m) upstream at different datum. Since Jan. 10, 1966, auxiliary nonrecording gage on bridge of Alabama State Highway 28, 3 mi (5 km) downstream. January 1944 to September 1946, auxiliary nonrecording gage at lock 3 on Tombigbee River 3 mi (5 km) downstream from mouth of Chickasaw Bogue.

REMARKS.--Water-discharge record fair.

AVERAGE DISCHARGE.--16 years (water years 1945-46, 1966-79), 365 ft^3/s (10.34 m^3/s), 19.21 in/yr (488 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,700 ft^3/s (1100 m^3/s) Mar. 4, 1979, gage height, 30.18 ft (9.199 m), maximum gage height, 30.33 ft (9.245 m) Mar. 26, 1945, site and datum then in use; minimum observed, 0.3 ft^3/s (0.085 m^3/s) June 27-29, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,200 ft^3/s (176 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 21	0900	12,400	351	22.93	6.989	Mar. 23	2100	8,980	254	20.60	6.279
Feb. 7	0800	6,280	178	17.85	5.441	Apr. 4	1900	14,500	411	23.98	7.309
Feb. 24	2300	11,500	326	22.36	6.815	Apr. 13	1300	18,200	515	25.80	7.864
Mar. 4	1200	*38,700	1100	*30.18	9.199						

Minimum daily discharge, 2.7 ft^3/s (0.08 m^3/s) Oct. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	3.0	23	764	319	311	58	86	361	9.8	24	21
2	16	3.1	12	4650	214	365	71	77	77	8.8	20	365
3	7.6	3.0	9.2	534	448	947	7340	72	806	8.0	58	263
4	5.1	3.1	121	190	1980	25400	13300	70	2280	7.2	26	96
5	4.0	4.1	275	127	592	8020	6820	91	329	8.8	24	31
6	3.5	4.0	73	103	1250	1420	608	108	130	24	20	17
7	3.0	3.4	27	1170	4860	600	398	70	80	623	16	12
8	3.0	3.2	18	809	854	400	530	47	87	417	13	10
9	2.9	3.1	206	203	408	350	2770	43	59	1290	13	9.5
10	2.9	3.2	214	103	248	300	570	39	38	505	10	7.6
11	2.9	3.4	42	71	187	500	295	35	188	206	526	6.6
12	2.9	3.4	23	58	156	350	446	108	61	367	2530	6.0
13	2.9	3.5	17	101	128	250	14800	1380	31	120	337	912
14	2.9	3.6	14	103	110	200	7710	603	26	59	105	1090
15	2.8	3.7	13	61	98	150	600	143	20	159	53	156
16	2.7	3.7	13	36	86	120	300	66	16	53	30	72
17	2.8	7.2	15	29	69	100	200	38	14	28	21	261
18	2.8	8.2	16	27	590	90	160	29	12	22	18	149
19	2.8	5.6	13	32	950	80	140	26	11	52	14	82
20	2.8	4.9	12	2680	327	70	120	32	9.8	181	12	55
21	2.9	4.6	27	10100	637	65	100	24	9.5	169	12	321
22	2.9	4.4	63	1280	400	60	600	21	9.2	138	38	309
23	2.9	4.6	26	556	335	3640	300	22	9.0	715	18	91
24	2.9	4.4	20	2420	6840	2860	240	26	13	174	12	50
25	3.0	4.4	37	590	5130	359	200	23	17	201	9.8	35
26	3.0	4.7	28	419	726	188	180	19	20	925	9.8	29
27	3.0	8.2	19	2980	415	124	160	17	13	355	12	27
28	3.0	7.8	15	1130	303	97	140	19	10	105	14	33
29	3.0	14	14	469	---	78	120	19	10	71	16	41
30	3.0	45	18	321	---	69	96	57	12	48	11	28
31	3.0	---	40	425	---	59	---	49	---	34	50	---
TOTAL	316.9	182.5	1463.2	32541	28660	47622	59372	3459	4758.5	7083.6	4072.6	4585.7
MEAN	10.2	6.08	47.2	1050	1024	1536	1979	112	159	229	131	153
MAX	208	45	275	10100	6840	25400	14800	1380	2280	1290	2530	1090
MIN	2.7	3.0	9.2	27	69	59	58	17	9.0	7.2	9.8	6.0
CFSM	.04	.02	.18	4.07	3.97	5.95	7.67	.43	.62	.89	.51	.59
IN.	.05	.03	.21	4.69	4.13	6.87	8.56	.50	.69	1.02	.59	.66

CAL YR 1978 TOTAL 105147.1 MEAN 288 MAX 10200 MIN 2.7 CFSM 1.12 IN 15.16
WTR YR 1979 TOTAL 194117.0 MEAN 532 MAX 25400 MIN 2.7 CFSM 2.06 IN 27.99

02468500 CHICKASAW BOGUE NEAR LINDEN, AL--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1968, and 1969.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
10...	1158	2.7	298	--	21.0	--
NOV						
14...	1200	1.0	228	7.5	17.0	9.5
20...	1334	4.6	290	--	17.5	--
JAN						
04...	1108	193	245	--	4.5	--
FEB						
12...	1150	154	265	--	9.0	--
MAR						
27...	1245	118	243	--	14.0	--
APR						
13...	1030	17600	140	7.9	17.5	9.0
MAY						
08...	1129	46	280	--	23.5	--
JUN						
19...	1055	10	296	--	29.0	--
JUL						
30...	1427	44	300	--	31.5	--

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
NOV											
14...	100	0	39	.6	6.9	13	.3	1.7	130	0	107
APR											
13...	63	0	24	.6	2.4	8	.1	1.4	94	0	77

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)
NOV											
14...	--	4.2	6.6	.1	8.6	133	.18	.36	.00	.00	<1
APR											
13...	1.9	5.8	2.0	.1	3.6	88	.12	4180	.36	1.6	ND

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV											
14...	--	ND	ND	--	30	ND	470	.2	ND	260	30
APR											
13...	<90	<1	ND	8	230	3	ND	<.2	ND	150	20

02469761 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL

LOCATION.--Lat 31°45'30", long 88°07'45", in sec. 12, T. 9 N., R. 2 W., Choctaw County, Hydrologic Unit 03160203, near right bank at Coffeeville lock and dam, 4 mi (6 km) downstream from Turkey Creek, 2 mi (3 km) west of Coffeeville, and at mile 74.7 (120.2 km).

DRAINAGE AREA.--18,500 mi^2 (48,000 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year (water years 1961-67 published in 1977 annual report).

GAGE.--Water-stage recorder. Datum of gage is 14.00 ft (4.267 m) below mean sea level. Auxiliary water-stage recorder 0.5 mi (0.8 km) downstream from base gage at same datum.

REMARKS.--Records fair. Some regulation by Lewis Smith Reservoir on Sipsey Fork (station 02451950), Bankhead lock and dam on Black Warrior River, usable capacity, 112,000 acre-ft (138 hm^3), Holt lock and dam on Black Warrior River, usable capacity 115,000 acre-ft (142 hm^3), and lock and dam at gage.

AVERAGE DISCHARGE.--19 years, 29,840 ft^3/s (845.1 m^3/s), 21.90 in/yr (556 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 290,000 ft^3/s (8,210 m^3/s) Apr. 22, 1979, gage height, 65.46 ft (19.952 m), minimum discharge, 902 ft^3/s (25.5 m^3/s) June 28, 1966 (results of abnormal regulation).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1, 1874 (correction) reached a stage of 67.4 ft (20.54 m), discharge not determined, at site 0.5 mi (0.8 km) downstream at present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 290,000 ft^3/s (8,210 m^3/s) Apr. 22, gage height, 65.46 ft (19.952 m); minimum daily discharge, 1,760 ft^3/s (49.8 m^3/s) Oct. 2, 5, 7, 9-12, 17-19

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2670	1800	5160	13400	133000	101000	28400	69400	27900	9460	12600	12900
2	1760	1790	3910	29700	123000	104000	22700	41700	32800	6230	10400	13200
3	1850	1790	3660	48300	106000	100000	67700	30000	34700	4680	11100	13800
4	2950	1770	5740	55700	85700	120000	85000	25000	38400	5010	11700	21000
5	1760	1770	6140	54000	51300	134000	99300	26800	37000	6110	11400	21700
6	2550	1770	6190	49600	45600	136000	102000	30400	33000	6630	7880	19300
7	1760	1770	10300	48500	56200	147000	101000	33900	26800	10700	6960	12800
8	1770	1770	10100	55000	59800	156000	98500	34400	21700	14900	7260	12600
9	1760	1770	11300	62200	55100	163000	97700	36900	18900	21600	6690	9180
10	1760	1770	18900	65500	50300	170000	102000	38600	17500	22700	8610	5650
11	1760	1780	23100	63200	46600	176000	98500	38800	14300	34000	8260	5600
12	1760	1810	23900	58000	41100	175000	91500	37100	11800	44200	15600	6390
13	1760	1830	19300	52400	34100	168000	83400	45100	11800	41400	14600	18600
14	1770	1860	11600	45200	30900	153000	94600	46700	11200	37100	10600	40800
15	1770	2320	10500	39300	28200	145000	102000	43600	9930	36000	9800	47600
16	1770	2870	12300	33900	26600	134000	120000	37200	9040	36200	8840	47100
17	1760	1770	8660	29400	25300	85300	129000	30200	8550	35000	6120	46900
18	1760	2250	7070	24900	27700	66300	190000	23000	6810	32200	7590	46400
19	1760	2780	5470	21700	41200	38300	223000	17700	4960	25400	5520	47800
20	1770	2700	7610	32700	43500	29500	250000	15100	8650	19800	5260	48800
21	1770	2700	5480	69200	45300	26900	270000	11500	5080	18700	5190	50100
22	1770	3400	5170	94300	44100	26200	286000	12700	7690	26100	4610	55600
23	1770	3520	8260	98300	43400	37900	285000	12800	5340	29400	5780	58000
24	1770	3920	7720	91800	67200	45500	270000	12500	8080	29000	5290	58900
25	1770	2950	10300	114000	93200	45700	250000	11100	10300	25900	7430	57500
26	1770	2000	8810	117000	94500	45400	230000	11400	9640	25300	6530	53800
27	1770	3950	8700	123000	96800	44400	210000	11000	11600	24100	8110	47200
28	1780	3070	10200	129000	101000	43100	190000	10200	11200	20200	11600	41400
29	1780	3850	9440	135000	---	41900	167000	11400	9810	17200	11800	39500
30	1780	4340	11900	136000	---	37100	94100	16700	10100	12800	11400	35500
31	1800	---	11300	140000	---	32400	---	26300	---	12500	11400	---
TOTAL	57760	73440	308190	2130200	1696700	2927900	4438400	849200	474580	690520	275930	995620
MEAN	1863	2448	9942	68720	60600	94450	147900	27390	15820	22270	8901	33190
MAX	2950	4340	23900	140000	133000	176000	286000	69400	38400	44200	15600	58900
MIN	1760	1770	3660	13400	25300	26200	22700	10200	4960	4680	4610	5600
CFSM	.10	.13	.54	3.72	3.28	5.11	8.00	1.48	.86	1.20	.48	1.79
IN.	.12	.15	.62	4.28	3.41	5.89	8.92	1.71	.95	1.39	.55	2.00

CAL YR 1978	TOTAL	7126680	MEAN	19530	MAX	93600	MIN	1760	CFSM 1.06	IN 14.33		
WTR YR 1979	TOTAL	14918440	MEAN	40870	MAX	286000	MIN	1760	CFSM 2.21	IN 30.00		

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL

LOCATION.--Lat 31°45'50", long 88°07'35", in sec. 12, T. 9 N., R. 2 W., Choctaw County, Hydrologic Unit 03160203, near right bank at downstream end of Coffeeville lock and dam, 4 mi (6 km) downstream from Turkey Creek, 2 mi (3 km) west of Coffeeville, and at mile 74.2 (119.4 km).

DRAINAGE AREA.--18,500 mi^2 (48,000 km^2), approximately.

WATER-STAGE RECORDS

PERIOD OF RECORD.--August 1960 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. August 1960 to September 1971 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 14.00 ft (4.267 m) National Geodetic Vertical Datum of 1929.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 64.2 ft (19.57 m) Mar. 4, 1961, Apr. 23, 1979; minimum, 14.0 ft (4.27 m) Oct. 30, 1963, Oct. 29, 1968.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 64.2 ft (19.57 m) Apr. 23; minimum, 14.3 ft (4.36 m) Oct. 15.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.80	15.90	17.00	20.20	51.70	47.10	31.60	47.60	27.70	19.70	22.80	20.40
2	15.20	15.70	16.80	24.20	51.20	47.40	28.90	42.60	29.30	18.70	21.20	21.10
3	15.30	15.70	17.00	31.00	50.10	47.60	34.30	37.40	30.30	17.20	21.00	20.70
4	16.00	15.60	17.80	35.30	47.80	50.60	46.00	34.30	31.70	16.00	20.90	22.40
5	15.60	15.50	17.00	37.40	44.40	52.30	50.10	32.70	32.70	16.70	21.00	24.70
6	15.90	15.60	17.80	37.30	39.90	53.20	50.60	32.70	31.90	16.60	19.50	24.90
7	15.00	15.70	18.70	36.70	39.60	53.80	50.40	32.90	30.80	18.30	17.60	22.80
8	14.90	14.80	19.70	37.10	40.70	54.50	50.00	33.00	29.00	20.60	18.30	21.70
9	14.60	14.80	19.90	39.00	40.60	55.20	50.00	32.90	27.30	23.80	18.10	20.30
10	14.90	15.30	21.40	40.50	39.50	55.70	49.70	33.30	26.00	25.30	18.90	18.30
11	14.80	15.50	24.50	41.30	38.40	56.10	49.40	33.30	24.70	27.50	18.60	17.00
12	15.30	15.40	25.80	40.80	37.20	56.30	48.80	33.20	22.80	32.60	20.10	17.20
13	15.20	15.90	25.80	39.80	35.50	56.30	47.90	34.10	22.00	34.30	22.20	19.70
14	15.20	15.90	22.10	37.90	33.40	55.90	48.10	35.20	21.40	33.30	20.60	29.20
15	14.30	16.10	20.00	36.10	31.80	55.00	49.10	36.20	20.20	32.40	20.40	33.70
16	14.40	15.60	20.10	33.90	30.10	53.60	50.70	35.00	19.90	31.70	20.40	35.10
17	15.50	16.20	19.20	31.40	29.30	51.40	53.20	32.80	19.40	31.60	17.70	35.50
18	15.10	15.80	17.30	29.50	28.30	47.60	56.60	30.20	18.10	31.00	17.80	35.80
19	15.80	15.60	16.70	27.60	30.80	41.80	59.20	27.70	17.40	29.60	17.80	35.70
20	15.50	15.30	17.40	26.80	33.30	36.80	61.70	25.10	17.30	27.60	16.50	36.00
21	15.60	15.80	16.70	35.50	34.40	34.40	63.30	23.20	17.90	25.70	17.10	36.50
22	15.40	15.80	16.00	42.40	35.40	32.60	64.10	21.40	18.10	26.30	16.80	37.70
23	15.50	15.80	16.80	44.80	35.10	32.90	64.20	22.00	17.40	28.80	16.70	39.40
24	15.40	15.90	17.90	46.60	37.80	35.30	64.00	22.30	17.70	29.30	17.40	40.20
25	15.10	16.00	18.10	47.30	43.10	36.70	63.30	21.60	18.80	29.20	17.90	40.40
26	15.10	15.50	18.90	48.50	45.00	36.90	62.00	21.30	18.70	28.00	18.70	39.90
27	15.40	17.20	17.30	49.70	46.00	36.60	59.90	21.40	19.50	28.40	17.40	38.50
28	15.50	16.80	18.30	50.60	46.50	36.30	56.80	20.50	20.10	27.40	18.90	36.50
29	14.90	16.40	18.30	51.20	---	35.80	53.90	20.80	20.30	26.20	20.40	34.20
30	15.80	17.00	18.90	51.80	---	35.20	51.00	21.70	19.40	24.30	20.40	32.20
31	15.80	---	20.60	51.80	---	33.10	---	25.40	---	22.60	20.20	---
MEAN	15.28	15.80	19.03	38.84	39.18	45.61	52.29	29.80	22.93	25.83	19.14	29.59
MAX	16.00	17.20	25.80	51.80	51.70	56.30	64.20	47.60	32.70	34.30	22.80	40.40
MIN	14.30	14.80	16.00	20.20	28.30	32.60	28.90	20.50	17.30	16.00	16.50	17.00

CAL YR 1978 MEAN 23.60 MAX 49.50 MIN 14.30
WTR YR 1979 MEAN 29.36 MAX 64.20 MIN 14.30

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1969 to September 1973, August 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1975 to current year.
WATER TEMPERATURES: April 1975 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967, 1969. No specific conductance data for Oct. 15-21, Jan. 11, Apr. 17-30, May 7-8, June 17, 23-26, July 8, or water temperature data for Oct. 15-21, Apr. 17-30, May 7-8, June 17-July 16, Aug. 25-31, Sept. 25-30, because of equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 314 micromhos Nov. 13, 1978; minimum daily, 84 micromhos Apr. 9, 1975, and Apr. 4, 1979.
WATER TEMPERATURES: Maximum daily, 32.5°C July 26-30, 1978; minimum daily, 5.0°C Jan. 20, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 314 micromhos Nov. 13; minimum daily, 84 micromhos Apr. 4.
WATER TEMPERATURES: Maximum daily, 32.0°C Aug. 6; minimum daily, 5.5°C Jan. 21, 31.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
18...	1030	1700	252	7.5	22.0	5.0	8.4	1	2	68	17
NOV											
15...	1000	1800	285	7.5	19.5	7.0	9.4	5	10	69	26
DEC											
19...	1530	5360	151	7.5	13.0	15	11.2	37	22	42	12
JAN											
12...	0830	58800	149	7.2	7.0	25	10.2	430	1000	50	22
FEB											
09...	1000	56400	114	7.0	5.5	60	12.0	340	1000	40	14
MAR											
22...	0930	26200	118	7.4	15.5	35	9.7	40	9	40	12
APR											
12...	1100	91500	107	7.4	17.0	45	7.9	220	200	40	15
MAY											
01...	1630	69400	122	7.0	19.0	50	5.9	130	120	45	17
JUN											
26...	1500	9640	156	7.4	27.5	18	8.2	12	16	54	18
JUL											
26...	0900	25300	142	7.4	28.0	25	8.0	130	150	53	23
SEP											
21...	0915	50100	124	7.0	23.5	50	7.9	120	64	50	20

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
OCT											
18...	18	5.7	22	40	1.2	25	2.6	63	0	52	3.2
NOV											
15...	18	5.9	29	46	1.5	32	3.0	52	0	43	2.6
DEC											
19...	13	2.3	11	35	.7	13	2.2	37	0	30	1.9
JAN											
12...	15	3.1	7.2	23	.4	9.4	2.2	35	0	29	3.5
FEB											
09...	13	1.9	4.4	19	.3	5.9	1.5	32	0	26	5.1
MAR											
22...	12	2.4	5.5	22	.4	6.9	1.4	34	0	28	2.2
APR											
12...	13	1.8	4.1	18	.3	5.5	1.4	30	0	25	1.9
MAY											
01...	13	3.0	4.3	17	.3	5.8	1.5	34	0	28	5.4
JUN											
26...	16	3.4	10	28	.6	12	1.8	44	0	36	2.8
JUL											
26...	15	3.7	8.0	24	.5	18	1.9	37	0	30	2.4
SEP											
21...	16	2.5	5.9	20	.4	14	2.1	37	0	30	5.9

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
OCT										
18...	39	22	.1	3.6	141	145	.19	647	.28	.02
NOV										
15...	43	30	.1	3.7	--	160	.22	778	.30	.03
DEC										
19...	15	14	.1	6.9	82	84	.11	1190	.25	.09
JAN										
12...	26	5.2	.1	5.9	--	85	.12	13500	.58	.18
FEB										
09...	17	4.8	.1	7.6	--	68	.09	10400	.41	.06
MAR										
22...	17	5.0	.1	3.9	70	65	.10	4950	.32	.07
APR										
12...	13	4.2	.1	6.8	--	60	.08	14800	.24	.06
MAY										
01...	19	3.5	.1	7.9	--	70	.10	13100	.31	.05
JUN										
26...	27	9.6	.1	6.3	--	97	.13	2530	.35	.03
JUL										
26...	26	7.1	.1	8.0	96	90	.13	6560	.37	.02
SEP										
21...	18	5.2	.1	6.1	--	75	.10	10100	.21	.07

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT										
18...	--	.31	.33	.15	.18	.61	2.7	.04	--	.01
NOV										
15...	--	.39	.42	.05	.37	.72	3.2	.03	--	.01
DEC										
19...	--	.17	.26	.05	.21	.51	2.3	.06	--	.04
JAN										
12...	--	2.6	2.8	1.5	1.3	3.4	15	.23	--	.04
FEB										
09...	--	.36	.42	.16	.26	.83	3.7	.10	--	.02
MAR										
22...	--	.32	.39	.13	.26	.71	3.1	.07	--	.02
APR										
12...	--	.64	.70	.36	.34	.94	4.2	.06	--	.02
MAY										
01...	.06	.29	.34	.17	.17	.65	2.9	.08	.25	.01
JUN										
26...	.04	.38	.41	.15	.26	.76	3.4	.05	.15	.01
JUL										
26...	.02	.31	.33	.23	.10	.70	3.1	.07	.21	.02
SEP										
21...	.08	.81	.88	.43	.45	1.1	4.8	.17	.52	.03

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)
NOV										
15...	1	1	0	0	0	6	0	6	10	8
JAN										
12...	1	1	100	100	0	--	0	7	10	10
MAR										
22...	1	1	0	0	0	7	1	6	10	10
MAY										
01...	3	2	0	0	0	7	4	3	10	0
JUL										
26...	2	1	100	80	20	0	0	0	10	0

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
NOV										
15...	2	0	0	0	1	1	0	500	400	100
JAN										
12...	0	1	1	0	4	3	1	7800	7800	40
MAR										
22...	0	1	0	1	4	3	1	2300	2200	110
MAY										
01...	<10	2	1	1	19	13	6	4000	3800	200
JUL										
26...	<10	0	0	0	2	0	2	1000	850	150

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)
NOV									
15...	--	0	35	80	50	30	<.5	.0	<.5
JAN									
12...	55	25	30	300	250	50	<.5	.0	<.5
MAR									
22...	53	17	36	420	340	80	.5	.0	.5
MAY									
01...	31	27	4	230	160	70	<.5	.0	<.5
JUL									
26...	4	4	0	70	70	1	<.5	.0	<.5

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV									
15...	0	0	0	0	0	0	--	0	10
JAN									
12...	0	0	0	0	0	0	30	20	10
MAR									
22...	0	0	0	0	0	0	20	20	0
MAY									
01...	0	0	0	0	0	0	50	50	0
JUL									
26...	0	0	0	0	0	0	20	10	7

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)
OCT							
18...	--	--	--	--	--	--	--
NOV							
15...	--	<2.1	<.4	--	4.2	<.4	4.0
DEC							
19...	--	--	--	--	--	--	--
JAN							
12...	--	--	--	--	--	--	--
FEB							
09...	--	--	--	--	--	--	--
MAR							
22...	<.7	<1.1	1.7	1.2	1.9	.9	1.8
APR							
12...	--	--	--	--	--	--	--
MAY							
01...	<.8	<1.2	3.9	2.7	2.1	1.9	1.9
JUN							
26...	--	--	--	--	--	--	--
JUL							
26...	--	--	--	--	--	--	--
SEP							
21...	--	--	--	--	--	--	--

DATE	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT						
18...	--	--	--	3.8	--	--
NOV						
15...	<.4	.02	<.01	--	5.0	.7
DEC						
19...	--	--	--	3.2	--	--
JAN						
12...	--	--	--	--	5.0	1.5
FEB						
09...	--	--	--	5.7	--	--
MAR						
22...	1.0	.03	.06	--	5.4	.3
APR						
12...	--	--	--	6.4	--	--
MAY						
01...	1.7	.04	.08	--	2.4	.8
JUN						
26...	--	--	--	4.9	--	--
JUL						
26...	--	--	--	--	4.6	.1
SEP						
21...	--	--	--	15	--	--

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)
NOV										
15...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB										
09...	ND	--	ND	--	ND	--	ND	--	ND	--
MAY										
01...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG)
NOV										
15...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB										
09...	ND	--	ND	--	ND	--	ND	--	ND	--
MAY										
01...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	METHOXYCHLOR, TOTAL (UG/L)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)
NOV										
15...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB										
09...	ND	--	ND	--	ND	--	ND	--	ND	--
MAY										
01...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	METHYL PARATHION, TOTAL (UG/L)	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRITHION, TOTAL (UG/L)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG)	PARATHION, TOTAL (UG/L)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG)
NOV										
15...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB										
09...	ND	--	ND	--	ND	--	ND	--	ND	--
MAY										
01...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
OCT					
18...	--	.315	.315	.000	.000
NOV					
15...	89	7.48	5.91	12.9	2.16
MAR					
22...	570	--	--	--	--
MAY					
01...	2800	--	--	--	--
JUN					
26...	320	--	--	--	--
JUL					
26...	1100	--	--	--	--
SEP					
21...	370	--	--	--	--

DATE	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT			
18...	11	50	91
NOV			
15...	8	39	99
DEC			
19...	7	101	96
JAN			
12...	186	29500	91
FEB			
09...	146	22200	89
MAR			
22...	47	3330	93
APR			
12...	115	28400	82
MAY			
01...	130	24400	89
JUN			
26...	21	547	97
JUL			
26...	46	3140	88
SEP			
21...	116	15700	89

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	JUL 18,78	AUG 21,78	SEP 20,78	NOV 15,78	MAR 22,79
TIME	1300	1400	1045	1000	0930
TOTAL CELLS/ML	2300	12000	1800	89	570
DIVERSITY: DIVISION	1.6	0.3	1.5	0.8	1.4
.CLASS	1.6	0.4	1.5	0.8	1.4
..ORDER	1.7	0.7	1.9	0.8	2.3
...FAMILY	1.7	0.8	2.4	0.8	2.9
....GENUS	1.9	1.5	2.7	0.8	3.6

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	22	1	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	110	1	44	3	--	-	30	5
....CHODATELLA	--	-	--	-	--	-	--	-	5	1
....DICTYOSPHAERIUM	--	-	180	2	--	-	--	-	80	14
....KIRCHNERIELLA	--	-	*	0	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	22	1	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	5	1
...SCENEDESMACEAE										
....CRUCIGENIA	360#	15	--	-	--	-	--	-	40	7
....SCENEDESMUS	67	3	--	-	--	-	--	-	85	15
..TETRASPORALES										
...PALMELLACEAE										
....GLOEOCYSTIS	--	-	--	-	--	-	--	-	20	4
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	--	-	22	1	--	-	--	-
....CHLAMYDOMONAS	22	1	67	1	290#	16	22#	25	90#	16
...VOLVOCACEAE										
....EUDORINA	--	-	--	-	710#	41	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	44	2	*	0	130	8	66#	75	40	7
....MELOSIRA	820#	36	--	-	160	9	--	-	20	4
..PENNALES										
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	--	-	40	7
....FRAGILARIA	--	-	--	-	--	-	--	-	5	1
....SYNEDRA	--	-	--	-	--	-	--	-	15	3
...NAVICULACEAE										
....NAVICULA	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	--	-	--	-	22	1	--	-	25	4
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....OCHROMONAS	--	-	89	1	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	67	1	22	1	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	JUL 18,78 1300		AUG 21,78 1400		SEP 20,78 1045		NOV 15,78 1000		MAR 22,79 0930	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	530	5	--	-	--	-	--	-
....ANACYSTIS	950#	41	8500#	73	110	6	--	-	60	11
....GOMPHOSPHAERIA	--	-	1300	11	--	-	--	-	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENOPSIS	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	640	6	--	-	--	-	--	-
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	130	1	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	5	1
....TRACHELOMONAS	--	-	--	-	--	-	--	-	5	1
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..GYMNODINIALES										
...GYMNODINIACEAE										
....GYMNODINIUM	--	-	--	-	200	11	--	-	--	-
..PERIDINIALES										
...PERIDINIACEAE										
....PERIDINIUM	44	2	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	MAY 1,79		JUN 26,79		JUL 26,79		SEP 21,79	
TIME	1630		1500		0900		0915	
TOTAL CELLS/ML	2800		320		1100		370	
DIVERSITY: DIVISION	0.9		1.5		1.3		1.0	
.CLASS	0.9		1.5		1.3		1.0	
..ORDER	1.6		1.5		1.3		1.2	
...FAMILY	1.7		1.7		1.8		1.5	
....GENUS	2.1		1.7		2.0		1.8	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...MICRACTINIACEAE								
....GOLENKINIA	*	0	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	*	0	13	4	--	-	14	4
....CHODATELLA	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	14	4
....OOCYSTIS	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	110	4	51#	16	100	9	170#	46
..TETRASPORALES								
...PALMELLACEAE								
....GLOEOCYSTIS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	--	-	--	-	14	4
...VOLVOCACEAE								
....EUDORINA	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	42	1	140#	44	77	7	14	4
....MELOSIRA	260	9	--	-	350#	31	140#	38
..PENNALES								
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	*	0	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	42	1	--	-	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....OCHROMONAS	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	*	0	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	MAY 1,79		JUN 26,79		JUL 26,79		SEP 21,79	
TIME	1630		1500		0900		0915	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	56	2	120#	36	--	-	--	-
....GOMPHOSPHAERIA	1700#	60	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENOPSIS	--	-	--	-	140	13	--	-
...OSCILLATORIACEAE								
....LYNGBYA	180	6	--	-	--	-	--	-
....OSCILLATORIA	350	13	--	-	450#	40	--	-
...RIVULARIACEAE								
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-
....TRACHELOMONAS	*	0	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..GYMNODINIALES								
...GYMNODINIACEAE								
....GYMNODINIUM	--	-	--	-	--	-	--	-
..PERIDINIALES								
...PERIDINIACEAE								
....PERIDINIUM	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223	257	281	177	111	146	125	126	150	165	158	182
2	228	255	281	172	121	132	128	133	130	168	156	179
3	225	257	280	176	115	141	101	141	135	159	164	170
4	230	256	280	174	128	133	84	139	130	157	165	171
5	235	290	270	176	137	130	105	136	134	157	163	166
6	230	300	256	173	131	124	119	133	140	150	165	172
7	225	290	270	176	128	103	125	---	132	155	160	180
8	220	310	251	177	147	96	141	---	130	---	169	178
9	223	305	254	182	---	96	118	157	130	165	174	180
10	230	306	250	184	134	97	113	157	132	154	176	168
11	230	313	210	---	137	93	118	157	136	158	174	167
12	231	310	205	---	143	98	114	160	131	159	173	163
13	232	314	208	192	145	96	118	160	132	152	171	157
14	231	305	193	178	150	95	116	140	132	154	170	156
15	---	302	188	182	151	96	106	120	134	170	157	160
16	---	300	173	182	151	101	98	128	157	153	163	150
17	---	295	172	183	152	103	---	133	---	148	148	141
18	---	293	176	181	150	110	---	131	142	144	142	123
19	---	297	168	182	152	114	---	140	140	149	146	114
20	---	295	160	183	151	125	---	143	138	143	154	113
21	---	290	174	181	137	130	---	150	139	135	175	130
22	231	285	172	192	150	132	---	150	154	134	170	129
23	242	290	174	174	148	132	---	150	---	150	175	128
24	244	297	175	150	131	121	---	148	---	144	155	128
25	247	294	169	132	130	121	---	148	---	142	155	128
26	250	281	181	132	151	125	---	150	---	148	155	124
27	258	273	179	120	150	124	---	149	153	149	177	120
28	259	273	192	122	153	121	---	150	150	146	180	107
29	260	279	183	110	---	130	---	170	154	148	184	109
30	251	280	184	108	---	131	---	165	153	153	184	114
31	261	---	175	111	---	126	---	154	---	154	182	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.0	22.0	18.0	11.0	6.0	11.0	16.0	19.0	24.5	---	30.0	30.0
2	26.0	22.0	18.0	10.0	6.0	11.0	17.0	19.5	24.5	---	30.0	30.0
3	26.0	21.5	18.0	10.0	6.0	11.5	17.0	20.0	25.0	---	30.0	30.0
4	26.0	21.5	18.0	10.0	6.0	13.0	17.0	20.0	25.0	---	30.0	30.0
5	26.0	21.0	17.0	10.5	6.5	13.0	17.0	20.0	25.0	---	30.5	30.0
6	25.5	21.0	17.0	10.0	7.5	14.0	18.0	21.0	25.0	---	32.0	30.0
7	25.0	21.0	17.0	10.0	7.0	14.0	18.0	---	25.0	---	31.0	30.0
8	25.0	19.5	17.0	8.0	6.0	14.0	18.0	---	25.5	---	31.0	30.0
9	25.5	19.5	18.0	7.0	6.0	14.0	18.0	20.0	25.5	---	31.0	30.0
10	24.5	19.5	16.0	7.0	6.0	14.0	18.0	20.0	25.5	---	31.0	30.0
11	24.5	20.0	15.0	8.0	7.0	14.0	18.0	20.0	25.5	---	31.0	30.0
12	24.5	20.0	14.5	7.0	7.0	10.0	18.0	22.0	26.0	---	30.0	29.0
13	24.5	19.5	14.0	7.0	7.5	13.0	18.0	22.0	26.5	---	30.5	29.0
14	24.5	20.0	14.0	7.0	7.0	13.5	18.0	21.5	26.0	---	31.0	28.0
15	---	20.0	13.5	6.0	9.0	14.0	18.5	21.5	26.0	---	31.0	28.0
16	---	20.0	13.0	6.0	8.0	14.0	19.0	21.5	27.0	---	30.0	26.0
17	---	20.0	13.0	6.0	8.0	14.5	---	22.0	---	28.0	30.0	25.5
18	---	19.5	13.0	6.0	8.0	15.0	---	23.0	---	28.0	29.5	25.0
19	---	19.5	13.5	6.0	8.0	15.0	---	23.0	---	28.0	29.0	25.0
20	---	19.5	13.0	6.0	8.0	15.0	---	23.0	---	28.0	29.0	25.0
21	---	19.5	13.0	5.5	9.5	16.0	---	23.0	---	28.0	30.5	24.0
22	22.0	20.0	12.5	8.0	9.0	16.0	---	24.0	---	28.0	30.0	24.0
23	22.0	20.0	12.0	9.0	9.5	16.0	---	23.0	---	28.0	30.0	23.0
24	22.0	19.0	12.0	8.0	11.0	16.0	---	24.0	---	28.0	30.0	23.0
25	22.0	19.0	12.5	8.5	11.5	16.0	---	24.0	---	28.0	---	---
26	22.0	18.0	12.5	7.5	11.5	16.0	---	24.0	---	28.0	---	---
27	22.0	18.0	12.5	7.5	11.5	16.0	---	24.0	---	28.0	---	---
28	22.0	18.0	12.5	7.0	---	16.0	---	24.0	---	28.0	---	---
29	22.0	18.0	12.0	6.5	---	16.5	---	24.0	---	28.0	---	---
30	22.0	18.0	11.0	6.0	---	16.5	---	24.0	---	29.0	---	---
31	22.0	---	11.0	5.5	---	---	---	24.0	---	29.0	---	---

02469800 SATILPA CREEK NEAR COFFEEVILLE, AL

LOCATION.--Lat 31°44'39", long 88°01'21", in SE¼ sec. 13, T. 9 N., R. 1 W., Clarke County, Hydrologic Unit 03160203, near left bank on downstream side of bridge on State Highway 12, 0.2 mi (0.3 km) upstream from unnamed tributary, 3 mi (5 km) downstream from Harris Creek, and 3.8 mi (6.1 km) east of Coffeeville.

DRAINAGE AREA.--166 mi^2 (430 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1956 to September 1970. Flood hydrograph and low flow, water years 1971-74. October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 80 ft (24.4 m).

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--19 years (water years 1957-70, 1975-79), 227 ft^3/s (6.429 m^3/s), 18.57 in/yr (472 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,600 ft^3/s (725 m^3/s) July 8, 1956, gage height, 18.37 ft (5.599 m); minimum, 4.8 ft^3/s (0.136 m^3/s) Oct. 21, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,600 ft^3/s (73.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 21	1600	2,400	68.0	12.87	3.923	Mar. 4	1400	*23,400	663	*17.33	5.282
Feb. 25	0200	3,470	98.3	13.24	4.036	Apr. 4	1300	14,500	411	15.71	4.788

Minimum discharge, 11 ft^3/s (0.312 m^3/s) Oct. 18, 21, 22, 23, 24, 26, 30, Nov. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	12	88	130	384	422	205	180	302	51	34	19
2	18	12	48	961	310	378	249	166	160	41	31	19
3	16	12	37	769	382	940	5950	159	172	35	37	52
4	15	12	139	257	799	15300	13500	172	524	31	35	51
5	15	12	427	185	582	5910	5430	294	203	28	28	31
6	14	12	161	155	846	1860	1940	196	140	28	26	25
7	13	13	87	510	2050	894	894	160	109	82	24	23
8	13	14	66	618	1440	701	749	142	83	204	23	21
9	13	14	229	278	663	565	1100	168	72	368	21	20
10	13	14	290	200	462	498	819	148	65	161	21	20
11	13	14	130	169	405	773	598	183	110	240	28	19
12	13	14	88	155	362	578	560	221	72	428	102	18
13	12	14	70	177	328	446	691	884	56	182	73	391
14	12	13	61	156	299	397	734	908	51	120	40	763
15	12	14	54	128	281	350	483	372	47	88	30	214
16	12	14	53	112	255	318	394	237	45	69	26	114
17	12	18	56	107	230	305	350	181	43	57	24	173
18	12	43	53	103	382	289	319	152	42	71	23	196
19	12	34	49	102	484	270	297	142	39	313	22	124
20	12	22	47	539	340	253	281	148	37	411	21	91
21	12	19	51	2000	708	259	291	123	35	306	20	245
22	11	17	57	1050	520	240	308	106	34	157	40	301
23	11	17	49	463	478	837	338	173	34	96	28	141
24	11	16	50	877	1820	758	462	322	38	156	27	93
25	12	16	75	599	2900	348	706	168	82	168	25	74
26	12	16	61	386	1080	277	396	115	54	137	25	69
27	12	28	49	1000	600	247	291	90	43	125	25	77
28	12	70	44	1210	477	227	233	78	38	71	24	99
29	12	62	41	565	---	210	202	76	38	56	23	83
30	12	177	46	403	---	199	193	135	77	47	21	66
31	12	---	59	496	---	198	---	140	---	39	20	---
TOTAL	400	765	2815	14860	19867	35247	38963	6739	2845	4366	947	3632
MEAN	12.9	25.5	90.8	479	710	1137	1299	217	94.8	141	30.5	121
MAX	19	177	427	2000	2900	15300	13500	908	524	428	102	763
MIN	11	12	37	102	230	198	193	76	34	28	20	18
CFSM	.08	.15	.55	2.89	4.28	6.85	7.83	1.31	.57	.85	.18	.73
IN.	.09	.17	.63	3.33	4.45	7.90	8.73	1.51	.64	.98	.21	.81

CAL YR 1978 TOTAL 70762 MEAN 194 MAX 4760 MIN 11 CFSM 1.17 IN 15.86
WTR YR 1979 TOTAL 131446 MEAN 360 MAX 15300 MIN 11 CFSM 2.17 IN 29.46

02469800 SATILPA CREEK NEAR COFFEEVILLE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1970 to June 1973, October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, 1969, 1975, 1976.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
11...	1100	12	--	6.7	16.5	9.6
NOV						
27...	1100	24	--	7.3	16.0	8.7
JAN						
09...	1145	279	88	7.0	6.0	11.8
FEB						
15...	1130	278	105	7.0	12.0	11.0
APR						
03...	1230	4450	45	6.9	20.0	9.7
MAY						
14...	1145	1040	78	6.2	18.0	8.8
JUN						
19...	1100	40	174	7.6	23.0	8.3
SEP						
10...	1100	19	162	7.6	22.5	8.0

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT											
11...	71	--	26	1.4	3.7	10	.2	.8	--	--	--
NOV											
27...	63	5	23	1.2	2.3	7	.1	1.1	70	0	57
JAN											
09...	35	7	12	1.1	2.8	14	.2	1.4	34	0	28
FEB											
15...	46	9	16	1.3	2.9	12	.2	.7	45	0	37
APR											
03...	17	5	6.0	.4	1.3	14	.1	.3	14	0	11
MAY											
14...	24	4	8.2	.7	2.3	17	.2	1.1	24	0	20
JUN											
19...	--	--	--	--	--	--	--	--	91	0	75
SEP											
10...	80	4	29	1.7	2.8	7	.1	.7	92	0	75

02469800 SATILPA CREEK NEAR COFFEEVILLE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)
OCT											
11...	--	3.1	3.5	.1	11	--	--	--	.09	.40	<1
NOV											
27...	5.6	8.3	1.5	.0	9.8	83	.11	5.58	.02	.10	<1
JAN											
09...	5.4	8.0	3.8	.0	18	65	.09	49.0	.04	.20	1
FEB											
15...	7.2	8.0	2.7	.0	17	74	.10	55.5	.61	2.7	ND
APR											
03...	2.8	3.5	2.0	.0	5.7	27	.04	324	.00	.00	<1
MAY											
14...	24	3.2	2.2	.0	14	44	.06	124	.02	.09	1
JUN											
19...	3.7	--	--	--	--	--	--	--	--	--	--
SEP											
10...	3.7	1.6	2.6	.1	13	103	.14	5.28	1.2	5.3	1

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
11...	40	ND	2	ND	300	1	53	.2	ND	150	10
NOV											
27...	<50	<1	1	5	1100	2	34	.2	ND	110	10
JAN											
09...	<50	1	ND	2	330	1	<5	<.2	--	100	40
FEB											
15...	260	3	ND	2	240	2	<5	<.2	ND	100	10
APR											
03...	140	3	--	10	640	<1	6	.0	0	60	40
MAY											
14...	60	ND	ND	10	550	1	31	.2	ND	100	60
JUN											
19...	--	--	--	--	--	--	--	--	--	--	--
SEP											
10...	120	<1	ND	ND	260	3	8	.2	ND	150	20

02471001 CHICKASAW CREEK NEAR KUSHLA, AL

LOCATION.--Lat 30°48'10", long 88°08'36", in NE¼ sec. 11, T. 3 S., R. 2 W., Mobile County, Hydrologic Unit 03160204, on left bank at upstream side of highway bridge, 0.7 mi (1.1 km) upstream from Seabury Creek, 1.4 mi (2.3 km) southeast of Kushla, 7 mi (11 km) northwest of Mobile, and at mile 12.2 (19.6 km).

DRAINAGE AREA.--125 mi^2 (324 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1951 to current year. Prior to October 1968, published as "near Whistler."

REVISED RECORDS.--WSP 1434: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3.85 ft (1.173 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 2, 1964, water-stage recorder, Aug. 3, 1964, to Dec. 9, 1965, nonrecording gage, and Dec. 10, 1965, to September 1968, water-stage recorder at site 1.4 mi (2.3 km) upstream at different datum.

REMARKS.--Water-discharge record good except those for periods of no gage-height record, Nov. 26 to Jan. 10 and May 3 to June 27, which are poor.

AVERAGE DISCHARGE.--28 years, 269 ft^3/s (7.618 m^3/s), 29.22 in/yr (742 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,000 ft^3/s (1,190 m^3/s) Apr. 13, 1955, gage height, 25.4 ft (7.74 m), from floodmarks, site and datum then in use, from rating curve extended above 10,600 ft^3/s (300 m^3/s) on basis of slope-area measurement of peak flow; minimum, 18 ft^3/s (0.51 m^3/s) Sept. 3, 4, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,500 ft^3/s (42.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	1900	5,360	152	16.86	5.139	Mar. 24	0500	1,830	51.8	12.72	3.877
Mar. 4	1400	*7,000	198	*17.66	5.383	Sept.14	1200	3,330	94.3	15.36	4.682

Minimum discharge, 66 ft^3/s (1.87 m^3/s) Oct. 30, Nov. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	68	110	120	352	492	318	174	140	125	247	170
2	125	68	100	500	261	453	305	164	190	102	211	130
3	105	68	90	550	262	1400	386	170	160	97	300	140
4	94	67	120	300	591	6220	877	140	270	89	311	250
5	88	66	370	230	613	2690	1280	280	230	83	224	330
6	84	66	350	210	809	973	661	300	400	79	205	230
7	79	69	250	900	1200	740	444	190	750	78	175	190
8	76	72	180	500	918	647	379	160	500	88	150	170
9	75	74	160	350	521	579	390	130	250	129	130	150
10	75	74	170	230	390	539	366	120	200	377	120	140
11	75	73	150	210	341	703	328	110	170	626	110	140
12	75	70	130	209	310	697	310	120	140	947	780	148
13	74	70	110	228	286	544	299	240	120	544	450	1770
14	76	70	100	199	274	476	296	160	110	490	230	3020
15	71	70	95	172	262	432	272	140	100	639	170	1240
16	70	75	90	159	241	400	239	120	95	551	140	605
17	69	85	95	153	224	394	218	110	90	410	160	481
18	68	75	100	149	283	369	206	100	85	420	150	564
19	69	80	110	154	446	353	200	110	80	509	120	585
20	68	70	95	223	360	337	196	120	78	503	100	467
21	68	68	90	504	516	322	192	100	76	593	100	534
22	67	71	100	378	478	333	189	95	74	356	220	648
23	67	70	95	249	559	1220	217	170	72	344	240	630
24	68	72	100	556	3810	1440	490	400	130	678	180	413
25	68	72	120	614	2870	670	579	250	200	1350	220	337
26	68	70	110	341	995	486	383	170	320	1130	210	309
27	70	80	100	360	667	411	259	130	200	1100	160	296
28	69	120	85	389	551	374	212	120	136	735	250	288
29	68	110	80	282	---	353	191	110	113	516	200	272
30	66	160	75	244	---	334	183	120	144	396	150	249
31	67	---	80	350	---	332	---	120	---	303	140	---
TOTAL	2424	2323	4010	10013	19390	25713	10865	4943	5623	14387	6553	14896
MEAN	78.2	77.4	129	323	693	829	362	159	187	464	211	497
MAX	162	160	370	900	3810	6220	1280	400	750	1350	780	3020
MIN	66	66	75	120	224	322	183	95	72	78	100	130
CFSM	.63	.62	1.03	2.58	5.54	6.63	2.90	1.27	1.50	3.71	1.69	3.98
IN.	.72	.69	1.19	2.98	5.77	7.65	3.23	1.47	1.67	4.28	1.95	4.43

CAL YR 1978 TOTAL 92731 MEAN 254 MAX 3550 MIN 66 CFSM 2.03 IN 27.60
WTR YR 1979 TOTAL 121140 MEAN 332 MAX 6220 MIN 66 CFSM 2.66 IN 36.05

02471001 CHICKASAW CREEK NEAR KUSHLA, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1970 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, 1966, 1967, and 1969 as Chickasaw Creek near Whistler.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
12...	1315	72	24	--	22.0	--
NOV						
09...	0830	74	24	5.9	13.0	10.3
21...	1520	69	26	--	17.0	--
JAN						
09...	1545	339	33	--	9.0	--
FEB						
14...	1213	264	29	--	12.0	--
MAR						
29...	1207	342	25	--	17.0	--
MAY						
03...	1825	169	27	--	22.0	--
JUN						
21...	0952	77	29	--	24.0	--
AUG						
01...	1228	240	29	--	26.5	--

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
NOV											
09...	6	1	1.2	.6	2.5	48	.5	.4	5	0	4

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)
NOV											
09...	10	1.0	4.1	.0	7.9	21	.03	4.20	.11	.50	<1

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV											
09...	30	<1	ND	1	210	0	10	.3	ND	60	40

RESERVOIRS IN MOBILE RIVER BASIN

02451950 LEWIS SMITH RESERVOIR.--Lat 33°56'26", long 87°06'28", in W½ sec. 6, T. 13 S., R. 5 W., Walker County, Hydrologic Unit 03160110, at forebay of Lewis Smith Dam on Sipsey Fork of Mulberry Fork of Black Warrior River, 1.2 mi (1.9 km) downstream from Ryan Creek, 2.5 mi (4.0 km) upstream from Mill Creek, 2.5 mi (4.0 km) upstream from State Highway 69, about 14 mi (22.5 km) northwest of Jasper, and at mile 13.5 (21.7 km). DRAINAGE AREA, 944 mi^2 (2,445 km^2). PERIOD OF RECORD, October 1960 to current year. GAGE, water-stage recorder with remote indicating gages. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Alabama Power Co.), adjustment unknown.

Reservoir is formed by an earth and rock-fill dam 300 ft (91.4 m) high and 2,200 ft (671 m) long with fixed crest spillway 956 ft (291.4 m) long. Storage began Oct. 3, 1960. Capacity at elevation 522 ft (159.1 m) (crest of spillway) is 1,670,700 acre-ft (2,060 hm^3). Storage of 394,000 acre-ft (486 hm^3) is provided between elevations of 488 ft (148.7 m) and 510 ft (155.4 m) for power generation. Approximately 281,000 acre-ft (346 hm^3) of storage for flood control is provided between elevations of 510 ft (155.4 m) and 522 ft (159.1 m). Reservoir is used for power development and flood control. Gage-height record and capacity table furnished by the Alabama Power Co.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 1,649,500 acre-ft (2,030 hm^3) Mar. 19, 1973, elevation, 521.17 ft (158.853 m); minimum daily since reservoir was filled to elevation 510.00 ft (155.448 m) operating pool (Jan. 6, 1962), 1,008,400 acre-ft (1,243 hm^3) Dec. 2, 1971, elevation, 488.84 ft (148.998 m).

EXTREMES FOR CURRENT YEAR: Maximum daily contents, 1,585,900 acre-ft (1,955 hm^3) Apr. 16, elevation, 518.61 ft (158.072 m); minimum daily, 1,081,100 acre-ft (1,333 hm^3) Nov. 17, elevation, 493.45 ft (150.404 m).

02451950 LEWIS SMITH RESERVOIR

Sept. 30	495.05	1,107,600	.....
Oct. 31	493.69	1,085,100	-22,500
Nov. 30	493.64	1,084,200	- 900
Dec. 31	496.75	1,136,500	+52,300
CAL YR 1978	.....	.....	-129,200
Jan. 31	506.51	1,318,000	+181,500
Feb. 28	509.48	1,379,200	+61,200
Mar. 31	509.04	1,369,800	- 9,400
Apr. 30	510.75	1,406,000	+36,200
May 31	509.85	1,386,800	-19,200
June 30	506.19	1,311,500	-75,300
July 31	504.63	1,280,800	-30,700
Aug. 31	501.36	1,218,700	-62,100
Sept. 30	502.89	1,247,300	+28,600
WTR YR 1979	.....	.....	+139,700

02471065 MONTLIMAR CREEK AT U.S. HIGHWAY 90, AT MOBILE, AL

LOCATION.--Lat 30°38'59", long 88°07'34", in SE¼ sec. 39, T. 4 S., R. 2 W., Mobile County, Hydrologic Unit 03160205, on downstream side of downstream service road bridge of U.S. Highway 90, 0.1 mi (0.2 km) west of intersection of Interstate Highway 65 in Mobile.

DRAINAGE AREA.--8.57 mi^2 (22.20 km^2). Prior to December 1968 drainage area was 8.26 mi^2 (21.39 km^2). Drainage area was increased by channelization.

PERIOD OF RECORD.--May 1962 to September 1967, October 1974 to current year.

GAGE.--Water-stage recorder and sheet-piling weir control. Datum of gage is 20.04 ft (6.108 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 18, 1971, gage located 100 ft (30 m) upstream at same datum.

REMARKS.--Records fair above 20 ft^3/s (0.566 m^3/s) and poor below. Records of specific conductance and water temperature for the water year 1979 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--10 years (water years 1963-67, 1975-79), 22.3 ft^3/s (0.632 m^3/s), 35.34 in/yr (897 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5080 ft^3/s (144 m^3/s) Mar. 3, 1979, gage height, 9.54 ft (2.908 m); minimum, 3.7 ft^3/s (0.105 m^3/s) May 22, 1962, Oct. 11, 12, 29, 30, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft^3/s (19.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 26	2030	886	25.1	5.09	1.551	July 11	0730	1250	35.4	6.00	1.829
Dec. 4	0715	802	22.7	4.88	1.487	July 15	1500	0702	19.9	4.63	1.411
Dec. 24	0530	834	23.6	4.96	1.512	July 20	0300	1030	29.2	5.46	1.664
Feb. 20	2345	874	24.8	5.06	1.542	Aug. 3	1430	1360	38.5	6.28	1.914
Feb. 23	1730	1820	51.5	7.05	2.149	Aug. 21	1700	1520	43.0	6.62	2.018
Mar. 3	2015	*5080	144.0	*9.54	2.908	Aug. 25	1645	0878	24.9	5.07	1.545
May 23	0845	1330	37.7	6.19	1.887	Sept.12	2230	3020	85.5	8.28	2.524
July 9	1645	5060	143.0	9.53	2.905						

Minimum discharge, 5.4 ft^3/s (0.153 m^3/s) Nov. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	16	18	78	19	22	18	17	63	19	18	21
2	13	15	22	28	17	27	20	17	18	18	37	17
3	13	16	17	17	59	586	55	18	39	18	128	17
4	13	16	103	15	35	78	44	20	22	17	25	15
5	13	17	26	15	43	31	22	17	31	17	21	17
6	13	17	18	15	176	23	21	17	17	18	19	17
7	13	31	17	90	44	21	21	18	14	20	19	18
8	13	14	16	19	25	19	22	18	14	39	18	18
9	13	15	31	18	21	19	21	18	14	193	28	17
10	14	15	14	18	22	32	21	18	15	36	17	18
11	14	15	15	19	21	22	19	18	13	186	26	18
12	13	14	15	23	17	19	19	18	13	29	19	316
13	14	14	15	18	20	18	23	42	14	77	15	112
14	13	14	17	17	23	18	18	18	13	49	15	27
15	14	13	17	16	18	18	18	18	14	77	15	23
16	14	13	19	16	18	18	18	18	17	40	14	23
17	14	14	18	17	17	19	18	18	15	38	18	23
18	14	13	17	16	49	19	18	18	11	25	22	21
19	14	14	18	15	20	19	18	18	17	37	15	21
20	14	13	15	94	85	19	19	18	13	152	13	54
21	14	13	28	23	85	19	18	18	14	23	176	39
22	14	13	14	19	26	75	18	66	15	22	38	22
23	15	14	18	74	247	71	48	164	16	73	43	21
24	15	14	115	26	142	21	53	21	21	170	48	21
25	15	14	17	22	35	18	19	17	23	40	181	20
26	15	98	15	24	26	17	17	15	15	32	40	20
27	15	112	14	22	24	17	17	15	13	22	25	21
28	15	23	15	20	23	17	17	15	13	22	21	21
29	15	20	14	20	---	18	17	31	36	19	18	20
30	15	17	15	39	---	18	17	17	23	18	19	20
31	16	---	29	29	---	18	---	48	---	18	18	---
TOTAL	433	647	742	882	1357	1356	694	809	576	1564	1129	1038
MEAN	14.0	21.6	23.9	28.5	48.5	43.7	23.1	26.1	19.2	50.5	36.4	34.6
MAX	16	112	115	94	247	586	55	164	63	193	181	316
MIN	13	13	14	15	17	17	17	15	11	17	13	15
CFSM	1.70	2.62	2.89	3.45	5.87	5.29	2.80	3.16	2.32	6.11	4.41	4.19
IN.	1.95	2.91	3.34	3.97	6.11	6.11	3.13	3.64	2.59	7.04	5.08	4.67

CAL YR 1978 TOTAL 11166 MEAN 30.6 MAX 558 MIN 13 CFSM 3.71 IN 50.28
WTR YR 1979 TOTAL 11227 MEAN 30.8 MAX 586 MIN 11 CFSM 3.73 IN 50.56

02479560 ESCATAWPA RIVER NEAR AGRICOLA, MS

LOCATION.--Lat 30°48'32", long 88°27'41", in SW¼ sec. 2, T. 3 S., R. 5 W., George County, MS, Hydrologic Unit 03170008, near left bank on downstream side of bridge on county road 612, 6.7 mi (10.8 km) west of Wilmer, AL, 2.5 mi (4.0 km) west of Alabama-Mississippi State line, 3.7 mi (6.0 km) east of Agricola, MS, and 4.8 mi (7.7 km) below old gage at Escatawpa River near Wilmer, AL.

DRAINAGE AREA.--556 mi^2 (1,440 km^2).

WATER-DISCHARGE RECORD

PERIOD OF RECORD.--August 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m).

REMARKS.--Water-discharge record good.

AVERAGE DISCHARGE.--6 years (water years 1974-79), 1,330 ft^3/s (37.67 m^3/s), 32.48 in/yr (825 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft^3/s (521 m^3/s) Mar. 5, 1979, gage height, 19.67 ft (5.995 m); minimum, 137 ft^3/s (3.88 m^3/s) Nov. 5, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1929 reached an elevation of 72.0 ft (21.95 m) ±1.0 ft (0.30 m), National Geodetic Vertical Datum of 1929, as determined from historical data. Peak discharge of this flood is unknown but in all probability has not been exceeded since 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 8	1100	5,390	153	14.95	4.557	Mar. 24	0500	5,870	166	15.29	4.660
Feb. 24	2400	9,720	275	17.20	5.243	Apr. 7	0400	13,800	391	18.54	5.651
Mar. 5	0300	*18,400	521	*19.67	5.995	Sept.15	0200	8,630	244	16.78	5.115

Minimum discharge, 137 ft^3/s (3.88 m^3/s) Nov. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	143	573	508	1970	3380	939	662	494	274	606	735
2	262	142	428	2390	1620	2320	922	604	626	264	518	611
3	229	141	338	3340	1330	3560	1690	686	608	247	552	640
4	209	140	544	2440	1980	15000	5340	562	954	230	575	936
5	196	138	1660	1440	2390	17600	10900	831	893	214	536	968
6	184	138	1630	1200	3200	17400	12900	842	1580	209	544	842
7	174	142	965	1870	4770	14500	13100	743	2200	227	449	753
8	168	148	643	3320	5360	9510	9510	643	2020	274	388	500
9	165	154	544	3280	5060	5770	6310	571	1630	388	345	405
10	164	156	573	2150	4230	2860	3190	524	1170	795	310	356
11	162	155	532	1410	3290	2830	2230	486	930	1310	306	310
12	162	153	498	1180	2160	3020	1740	524	650	2560	1530	286
13	161	149	462	1120	1570	2840	1640	795	456	2500	1030	4760
14	158	147	430	997	1290	2500	2260	717	358	2550	591	8180
15	152	148	390	790	1100	2070	2410	578	312	2260	430	8320
16	150	152	347	638	965	1690	1740	510	288	1970	384	6630
17	149	154	354	558	859	1460	1320	447	272	2490	397	4160
18	148	165	392	516	1010	1300	1160	414	259	1950	390	3160
19	149	200	394	502	1650	1160	1070	422	247	1610	324	2490
20	148	207	349	624	1720	1050	959	443	234	1990	277	1850
21	147	185	334	2010	2130	1000	836	422	224	1950	276	2420
22	146	170	378	2170	2370	1060	761	382	219	1690	567	3240
23	146	162	360	1940	3230	4060	769	1050	216	1880	930	2490
24	146	160	371	3210	8270	5500	1300	1160	409	2250	795	1710
25	147	158	447	3590	9360	3320	1560	986	564	2870	898	1370
26	146	154	422	3180	8090	2100	1380	712	980	2530	839	1210
27	147	247	371	2580	6930	1730	1140	508	684	1860	740	1110
28	148	480	324	3090	5410	1630	951	426	420	1400	954	1030
29	143	464	298	3000	---	1440	834	380	312	1210	817	936
30	141	715	283	2270	---	1190	740	384	278	974	652	848
31	143	---	288	2040	---	1010	---	390	---	756	636	---
TOTAL	5200	5967	15922	59353	93314	135860	91601	18804	20487	43682	18586	63256
MEAN	168	199	514	1915	3333	4383	3053	607	683	1409	600	2109
MAX	310	715	1660	3590	9360	17600	13100	1160	2200	2870	1530	8320
MIN	141	138	283	502	859	1000	740	380	216	209	276	286
CFSM	.30	.36	.92	3.44	6.00	7.88	5.49	1.09	1.23	2.53	1.08	3.79
IN.	.35	.40	1.07	3.97	6.24	9.09	6.13	1.26	1.37	2.92	1.24	4.23

CAL YR 1978 TOTAL 416831 MEAN 1142 MAX 10700 MIN 138 CFSM 2.05 IN 27.89
WTR YR 1979 TOTAL 572032 MEAN 1567 MAX 17600 MIN 138 CFSM 2.82 IN 38.27

02479560 ESCATAWPA RIVER NEAR AGRICOLA, AL--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1974 to current year.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama, and the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT					
13...	1233	157	28	--	21.0
NOV					
09...	0700	179	35	6.9	13.0
22...	0906	170	36	--	15.5
JAN					
08...	1405	3670	34	--	11.5
FEB					
15...	1325	1100	26	--	14.0
MAR					
30...	0833	1200	26	--	19.0
APR					
11...	1020	2310	26	5.1	18.0
MAY					
03...	1030	532	24	5.5	21.0
JUN					
22...	0808	213	27	--	25.0
27...	1200	713	29	4.7	25.0
JUL					
25...	0900	2970	25	4.7	25.0
AUG					
01...	1435	639	29	--	27.5
23...	0945	983	24	4.3	25.0
SEP					
20...	1130	1930	28	4.4	25.0

DATE	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
NOV										
09...	--	9.6	--	--	7	0	1.4	.8	3.1	48
APR										
11...	10	7.4	46	72	4	2	.8	.5	1.6	43
MAY										
03...	5.0	8.2	37	40	4	2	.7	.5	2.3	54
JUN										
27...	8.0	7.2	320	250	6	6	1.1	.7	2.6	47
JUL										
25...	15	8.6	800	430	4	2	.8	.5	2.0	49
AUG										
23...	15	5.6	1200	1300	5	5	.9	.6	2.4	49
SEP										
20...	10	5.5	70	44	4	4	.6	.7	2.2	45

DATE	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
NOV										
09...	.5	3.5	.4	9	0	7	1.8	0	5.8	.0
APR										
11...	.3	2.0	.4	2	0	2	25	1.7	3.1	.0
MAY										
03...	.5	2.7	.4	2	0	2	10	1.4	4.0	.0
JUN										
27...	.5	2.5	.5	--	--	--	--	4.0	4.4	.0
JUL										
25...	.4	2.4	.4	2	0	2	64	3.2	3.8	.0
AUG										
23...	.5	2.9	.5	0	0	0	.0	3.5	4.2	.0
SEP										
20...	.5	3.4	1.2	0	0	0	.0	4.0	4.6	.0

02479560 ESCATAWPA RIVER NEAR AGRICOLA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)
NOV										
09...	8.1	24	.03	11.6	.20	.90	--	--	--	--
APR										
11...	5.0	14	.02	87.3	--	--	.02	--	.01	--
MAY										
03...	7.1	18	.02	25.9	--	--	.10	--	.00	.00
JUN										
27...	7.6	21	.06	40.4	--	--	.03	--	.01	.01
JUL										
25...	7.6	20	.03	160	--	--	.02	--	.01	.01
AUG										
23...	7.0	20	.03	53.1	--	--	.19	--	.06	.07
SEP										
20...	7.5	21	.03	109	--	--	.00	.00	.08	.10

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
NOV									
09...	--	--	--	--	--	--	--	--	--
APR									
11...	.42	.43	.17	.26	.45	2.0	.01	--	.00
MAY									
03...	.49	.49	.23	.26	.59	2.6	.01	.03	.00
JUN									
27...	.31	.32	.15	.17	.35	1.6	.02	.06	.00
JUL									
25...	.44	.45	.27	.18	.47	2.1	.02	.06	.00
AUG									
23...	.39	.45	.02	.43	.64	2.8	.02	.06	.00
SEP									
20...	.73	.81	.28	.53	.81	3.6	.02	.06	.00

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)
NOV										
09...	--	<1	--	--	30	--	--	1	--	--
MAY										
03...	2	1	0	0	0	--	0	3	10	0
JUL										
25...	1	1	--	0	20	0	0	0	10	0

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
NOV										
09...	1	--	--	--	--	--	1	--	--	200
MAY										
03...	10	2	0	2	2	0	2	790	700	90
JUL										
25...	<10	--	0	4	--	0	3	1400	940	460

02479560 ESCATAWPA RIVER NEAR AGRICOLA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)
NOV										
09...	--	--	3	--	--	20	--	--	.2	--
MAY										
03...	--	0	5	40	0	40	<.5	.0	<.5	0
JUL										
25...	6	6	0	60	0	60	<.5	.0	<.5	0

DATE	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV									
09...	--	ND	--	--	--	60	--	--	60
MAY									
03...	0	0	0	0	0	--	30	30	0
JUL									
25...	0	0	0	0	0	--	20	10	9

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
APR								
11...	6.4	--	--	--	--	--	--	--
MAY								
03...	--	3.1	.6	14	.080	.000	.000	.000
JUN								
27...	8.7	--	--	13	--	--	--	--
JUL								
25...	--	11	.2	0	--	--	--	--
AUG								
23...	9.3	--	--	360	--	--	--	--
SEP								
20...	7.4	--	--	260	--	--	--	--

DATE	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR			
11...	32	200	82
MAY			
03...	9	13	91
JUN			
27...	18	35	83
JUL			
25...	57	457	64
AUG			
23...	44	117	80
SEP			
20...	29	151	86

02479560 ESCATAWPA RIVER NEAR AGRICOLA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	MAY 3,79		JUN 27,79		JUL 25,79		AUG 23,79		SEP 20,79	
TIME	1030		1200		0900		0945		1130	
TOTAL CELLS/ML	14		13		0		360		260	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	14#	100	--	-	--	-	--	-	14	6
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	13#	100	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..HORMOGONALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	--	-	--	-	360#	100	100#	39
....SPIRULINA	--	-	--	-	--	-	--	-	29	11
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	29	11
....TRACHELOMONAS	--	-	--	-	--	-	--	-	86#	33

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%

03571850 TENNESSEE RIVER AT SOUTH PITTSBURG, TN
(National stream-quality accounting network station)

LOCATION.--Lat 35°00'41", long 85°41'51", Marion County, Hydrologic Unit 06030001, on right bank at South Pittsburg Ferry landing on Tennessee State Highway 156, 0.5 mi (0.8 km) downstream from Battle Creek, 0.5 mi (0.8 km) east of South Pittsburg, 4.6 mi (7.4 km) downstream from Sequatchie River, 6.5 mi (10.5 km) downstream from Nickajack Dam, and at mile 418.2 (672.9 km).

DRAINAGE AREA.--22,640 mi^2 (58,640 km^2), approximately.

PERIOD OF RECORD.--July 1930 to current year. Published as "at Hales Bar, near Chattanooga, Tenn." July 1930 to July 1966.

REVISED RECORDS.--WSP 853: Drainage area. WSP 973: 1942. WSP 1306 (monthly runoff). WSP 1386: 1932-34.

GAGE.--Water-stage recorder. Datum of gage is 581.01 ft (177.092 m) National Geodetic Vertical Datum of 1929. Prior to Feb. 13, 1932, at site 12.9 mi (20.8 km) upstream at datum 7.85 ft (2.393 m) higher. Feb. 13, 1932, to July 17, 1966, at site 11.5 mi (18.5 km) upstream at datum 7.50 ft (2.286 m) higher. Since Jan. 27, 1939, auxiliary water-stage recorder at site 10.6 mi (17.1 km) downstream.

REMARKS.--Records good. Flow regulated since 1936 by increasing number of reservoirs above station (see Water Resources Data for adjoining states, 197 9).

AVERAGE DISCHARGE.--49 years, 37,900 ft^3/s (1,073 m^3/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 315,000 ft^3/s (8,920 m^3/s) Mar. 18, 1973, gage height, 34.33 ft (10.464 m); minimum daily, 2,900 ft^3/s (82.1 m^3/s) Nov. 1, 15, 1953; minimum gage height, 1.21 ft (0.369 m) Oct. 27, 1931, site and datum used 1932-65.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 44.6 ft (13.59 m) March 1867, site and datum used 1932-65. Flood of Mar. 8, 1917, reached a stage of 37.4 ft (11.40 m), site and datum used 1932-65, discharge, 320,000 ft^3/s (9,060 m^3/s), from rating curve extended above 225,000 ft^3/s (6,370 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 181,300 ft^3/s (5,130 m^3/s), Mar. 5, gage height, 27.20 ft (8.291 m); minimum daily, 14,400 ft^3/s (408 m^3/s) Nov. 8; minimum gage height, 11.88 ft (3.364 m) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18400	24500	26400	76600	77400	104000	42500	36600	116000	36000	58200	47100
2	22800	18900	18300	88900	67900	105000	38400	34800	101000	35800	51800	47400
3	22600	17800	21300	86900	59200	107000	44100	39300	68200	37500	48000	48500
4	21300	18200	33700	77400	58900	160000	50000	52200	62600	27300	45500	48000
5	21100	14900	37500	69800	57200	169000	35000	45300	55200	28300	43200	45000
6	19700	19400	38400	60500	47100	158000	35000	36000	53500	38800	47300	43300
7	19200	19100	34500	81800	46300	147000	35000	38800	52800	34400	47600	32200
8	19900	14400	32000	89200	48500	142000	35000	32500	48000	36400	47400	36100
9	25200	20400	37200	88800	48200	141000	40000	36300	44300	36600	46400	37800
10	32100	18700	56000	86200	49200	134000	35000	38500	42600	32400	41000	43400
11	27200	19600	56300	85400	46400	127000	50000	37100	37600	38400	41000	44900
12	20000	17400	51100	86600	41400	120000	60000	31800	36400	47800	40800	46400
13	20300	20600	50700	83000	40400	108000	75000	30400	34100	42900	44300	47700
14	19200	17300	45300	76400	36500	97500	80000	35800	40500	41300	44300	41600
15	15600	17600	48600	72000	40500	98000	85000	35700	35500	47200	46100	29400
16	24700	16000	38600	60600	40000	94900	77000	35700	35600	47000	43000	33700
17	21200	20900	27600	50700	36400	74400	67900	31300	30400	48400	41500	40200
18	26400	19800	36900	51400	37300	50700	58900	37500	39400	47800	46200	47900
19	28000	18300	40600	53600	37900	50000	49000	32000	39700	45900	44200	35900
20	22500	27300	41600	70300	39400	49800	36500	29000	37100	47900	41800	34300
21	18300	25800	38000	97300	38800	49900	44600	36700	35300	65500	40900	36800
22	16800	29700	41000	125000	51200	53900	33900	35000	35600	90600	39700	48100
23	19000	19000	49000	119000	54200	52800	35600	38600	35900	95000	46800	47800
24	19300	19100	39000	118000	69200	56500	37000	75900	26500	88800	44300	44900
25	18600	23600	36700	114000	87400	63000	31600	71700	34100	86100	45400	40500
26	18300	22200	35700	101000	100000	58400	31500	53800	32900	67300	41500	46000
27	17300	29900	41900	92700	98000	54200	37600	46500	33500	83300	44700	49800
28	19100	32000	43900	91500	108000	53900	37500	32800	36000	71100	47600	81800
29	17100	29400	44600	90500	---	54000	37500	39600	36600	68800	49700	81700
30	20000	25700	47200	82200	---	53700	35400	46900	35500	68900	47800	65500
31	24400	---	58800	86300	---	53800	---	75400	---	61700	43400	---
TOTAL	655600	637500	1248400	2613600	1562900	2841400	1391500	1279500	1352400	1665200	1401400	1373700
MEAN	21150	21250	40270	84310	55820	91660	46380	41270	45080	53720	45210	45790
MAX	32100	32000	58800	125000	108000	169000	85000	75900	116000	95000	58200	81800
MIN	15600	14400	18300	50700	36400	49800	31500	29000	26500	27300	39700	29400
CFSM	.93	.94	1.78	3.72	2.47	4.05	2.05	1.82	1.99	2.37	2.00	2.02
IN.	1.08	1.05	2.05	4.29	2.57	4.67	2.29	2.10	2.22	2.74	2.30	2.26

CAL YR 1978 TOTAL 14122300 MEAN 38690 MAX 125000 MIN 14400 CFSM 1.71 IN 23.20
WTR YR 1979 TOTAL 18023100 MEAN 49380 MAX 169000 MIN 14400 CFSM 2.18 IN 29.61

03572110 CROW CREEK AT BASS, AL

LOCATION.--Lat 34°56'03", long 85°55'03", in SE¼NE¼NW¼ sec. 20, T. 1 S., R. 7 E., Jackson County, Hydrologic Unit 06030001, on downstream side of bridge on State Highway 117, 0.3 mi (0.5 km) northwest of Bass, 1 mi (1.6 km) upstream from Bennett Cove Creek, 3.7 mi (6.0 km) south of Alabama-Tennessee State line.

DRAINAGE AREA.--131 mi^2 (339 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 610 ft (186 m) from topographic map.

REMARKS.--Water-discharge records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,330 ft^3/s (208 m^3/s) Mar. 4, 1979, gage height, 16.52 ft (5.035 m); minimum, 3.1 ft^3/s (0.088 m^3/s) Oct. 25, 1978, gage height, 1.42 ft (0.0433 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft^3/s (91 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 1	2115	5140	146	14.36	4.377	Apr. 13	1315	4760	135	13.87	4.228
Jan. 21	0945	4240	120	13.07	3.984	May 31	0745	4490	127	13.49	4.112
Feb. 25	1100	4510	128	13.52	4.121	July 25	2045	3260	92.3	11.02	3.359
Mar. 4	1030	*7330	208	*16.52	5.035	Sept. 28	1115	5850	166	15.14	4.615

Minimum discharge, 3.1 ft^3/s (0.088 m^3/s) Oct. 25; gage height, 1.42 ft (0.433 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	4.5	80	3560	185	453	220	170	977	24	70	54
2	8.0	4.5	45	3280	163	378	676	152	482	21	62	645
3	6.8	4.5	25	1030	155	1500	1500	146	897	20	54	298
4	7.3	4.6	60	523	149	6380	991	311	481	19	47	261
5	5.9	4.7	250	376	142	2660	640	335	332	17	41	156
6	5.3	5.0	130	308	138	1250	471	269	334	15	34	109
7	4.9	6.1	65	1630	305	827	377	230	358	14	30	82
8	4.8	6.5	40	1040	295	510	323	193	255	15	27	66
9	4.6	6.0	450	562	248	387	486	165	206	17	25	54
10	4.5	5.6	800	397	216	389	366	146	171	17	23	45
11	4.5	5.3	350	307	202	497	300	133	169	23	37	37
12	4.5	5.3	144	259	203	370	1990	121	136	27	140	32
13	4.8	5.1	92	231	213	321	4380	113	112	28	69	33
14	4.9	5.0	76	205	212	337	2450	107	94	27	43	118
15	4.5	5.2	65	164	217	343	1130	97	82	24	32	101
16	4.4	5.0	73	146	215	285	659	87	74	19	27	69
17	4.0	5.5	134	140	184	263	469	79	68	14	23	52
18	4.2	7.0	101	154	179	245	370	74	63	6.7	22	45
19	4.2	9.0	89	154	162	229	303	69	55	6.0	20	43
20	4.2	15	81	2190	169	221	264	70	49	39	18	40
21	4.2	12	323	3550	981	217	234	325	46	277	16	49
22	4.1	8.7	239	1610	877	204	203	226	43	249	15	123
23	4.1	7.0	158	739	612	845	183	1160	41	96	16	99
24	3.9	6.2	159	1180	1360	884	169	1040	42	89	25	73
25	3.5	5.8	210	698	3170	579	159	534	36	1100	43	60
26	4.1	5.8	152	499	1740	435	231	323	35	1450	77	52
27	4.4	9.4	125	401	761	353	311	239	33	725	115	1160
28	4.4	9.0	106	331	554	301	258	297	29	275	109	5160
29	4.5	10	94	266	---	267	219	243	27	200	91	2080
30	4.5	17	759	235	---	242	193	378	26	140	78	504
31	4.5	---	2010	215	---	220	---	3020	---	100	61	---
TOTAL	150.9	210.3	7485	26380	14007	22392	20525	10852	5753	5093.7	1490	11700
MEAN	4.87	7.01	241	851	500	722	684	350	192	164	48.1	390
MAX	8.4	17	2010	3560	3170	6380	4380	3020	977	1450	140	5160
MIN	3.5	4.5	25	140	138	204	159	69	26	6.0	15	32
CFSM	.04	.05	1.85	6.55	3.85	5.55	5.26	2.69	1.48	1.26	.37	3.00
IN.	.04	.06	2.14	7.55	4.01	6.41	5.87	3.11	1.65	1.46	.43	3.35

CAL YR 1978 TOTAL 65654.9 MEAN 180 MAX 2350 MIN 3.5 CFSM 1.39 IN 18.79
WTR YR 1979 TOTAL 126038.9 MEAN 345 MAX 6380 MIN 3.5 CFSM 2.65 IN 36.07

03572110 CROW CREEK AT BASS, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV										
03...	1450	4.3	315	8.0	17.0	9.9	150	21	46	8.9
DEC										
12...	1345	114	--	7.9	9.5	10.8	110	16	38	4.7
JAN										
17...	1445	93	205	7.8	9.0	11.2	100	10	33	4.2
FEB										
28...	1415	536	170	8.0	11.0	12.1	84	10	28	3.4
APR										
12...	1000	575	212	7.8	15.0	9.3	--	--	--	3.9
MAY										
23...	1200	1780	215	7.9	16.0	9.0	100	11	34	3.8
AUG										
29...	0805	904	264	7.7	21.0	7.6	120	7	40	5.2

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
03...	3.0	4	.1	1.2	160	0	131	2.6	24	4.0
DEC										
12...	1.3	2	.1	.8	120	0	98	2.4	17	1.5
JAN										
17...	1.0	2	.0	.6	110	0	90	2.8	9.1	1.4
FEB										
28...	.8	2	.0	.4	90	0	74	1.4	7.4	1.8
APR										
12...	1.2	--	--	.8	110	0	90	2.8	9.1	1.4
MAY										
23...	2.2	4	.1	1.4	110	0	90	2.2	9.6	1.6
AUG										
29...	1.8	3	.1	1.1	140	0	115	4.5	7.6	3.5

03572110 CROW CREEK AT BASS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
NOV										
03...	.1	3.0	174	.24	2.02	1.0	4.5	<1	<50	<1
DEC										
12...	.0	5.4	131	.18	40.3	.54	2.4	<1	<50	<1
JAN										
17...	.0	5.2	112	.15	28.1	.70	3.1	ND	100	<1
FEB										
28...	.1	4.3	92	.13	133	.34	1.5	<1	140	ND
APR										
12...	.1	--	--	--	--	.36	1.6	<1	<50	ND
MAY										
23...	.0	4.4	113	.15	543	.10	.44	ND	120	<1
AUG										
29...	.1	5.4	138	.19	337	.79	3.5	<1	190	<1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
NOV									
03...	ND	1	10	ND	7	.7	ND	450	ND
DEC									
12...	ND	1	40	1	35	<.2	--	190	20
JAN									
17...	ND	<1	10	<1	<5	.7	--	170	ND
FEB									
28...	ND	3	20	1	ND	<.2	ND	160	10
APR									
12...	ND	2	30	2	<5	<.2	ND	160	10
MAY									
23...	ND	12	530	<1	35	.3	ND	140	40
AUG									
29...	ND	3	20	1	<5	<.2	ND	230	20

TENNESSEE RIVER MAIN STEM

03572375 TENNESSEE RIVER NEAR BELLEFONTE, AL

LOCATION.--Lat 34°41'59", long 85°55'16", in NE¼ sec. 18, T. 4 S., R. 7 E., Jackson County, Hydrologic Unit 06030001, temperature recorder on right bank of river mile 391.3 (629.6 km), 42.3 mi (68.1 km) upstream from Guntersville Dam, 33.4 mi (53.7 km) downstream from Nickajack Dam, 16.3 mi (26.2 km) downstream from Widows Creek Steam Plant and 100 ft (30.5 m) upstream from Bellefonte project construction dock.

DRAINAGE AREA.--23,340 mi^2 (60,450 km^2).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1975 to current year.

INSTRUMENTATION.--Temperature recorder since November 1975.

REMARKS.--No temperature data for Dec. 3-6, Jan. 3, 4, 11, July 15-24 when the clock stopped.

COOPERATION.--Temperature records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 29.5°C July 23, 1977; minimum, 1.0°C Jan. 17, 21-22, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum. 26.0°C Aug. 10; minimum, 3.5°C Feb. 9-11, 19.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.5	24.5	25.0	19.5	18.0	18.5	14.5	13.5	14.0	9.5	9.0	9.5
2	25.5	24.5	25.0	18.5	18.0	18.5	14.5	13.5	14.0	9.5	8.5	9.0
3	25.5	24.5	25.0	18.5	17.0	18.0	---	---	---	---	---	---
4	25.0	24.0	24.5	18.5	18.0	18.5	---	---	---	---	---	---
5	24.5	24.0	24.5	18.5	17.0	18.0	---	---	---	6.0	5.5	6.0
6	24.0	23.5	23.5	18.0	17.0	17.0	---	---	---	6.0	5.5	6.0
7	23.5	23.0	23.0	18.0	17.0	17.0	13.5	13.0	13.0	7.0	6.0	6.5
8	23.0	22.0	22.0	18.0	16.5	17.0	14.0	13.5	13.5	7.0	6.0	6.5
9	22.0	21.5	21.5	17.0	16.0	16.5	14.0	13.0	13.5	6.5	5.0	6.0
10	21.5	21.0	21.5	16.5	16.0	16.5	13.0	11.0	11.5	5.5	4.5	5.5
11	21.0	21.0	21.0	16.5	15.5	16.0	11.5	10.5	11.0	---	---	---
12	22.0	20.5	21.5	16.5	15.5	16.0	11.5	10.5	11.0	5.5	5.0	5.5
13	21.5	20.5	21.0	16.5	16.0	16.5	11.0	9.5	10.5	5.5	5.5	5.5
14	21.5	20.5	21.0	16.5	16.0	16.5	10.5	9.5	10.5	5.5	5.0	5.5
15	21.0	20.0	20.5	17.0	16.0	16.5	10.5	9.5	10.0	5.0	4.5	5.0
16	20.0	19.5	20.0	17.0	16.5	17.0	10.5	10.0	10.0	5.0	5.0	5.0
17	20.0	19.0	19.5	18.0	17.0	17.0	10.0	9.5	10.0	5.5	4.5	5.0
18	19.5	18.5	19.0	18.0	16.5	17.0	9.5	9.5	9.5	6.5	5.0	5.5
19	19.0	18.5	19.0	17.0	15.5	16.5	10.0	9.5	9.5	6.0	5.5	5.5
20	19.5	18.5	19.0	16.5	15.5	16.0	10.5	9.5	10.0	6.0	6.0	6.0
21	19.5	18.0	19.0	16.0	15.5	16.0	10.5	9.5	10.0	6.5	6.0	6.0
22	19.5	18.5	19.0	16.0	15.5	16.0	10.0	9.0	9.5	6.5	6.0	6.0
23	19.5	18.5	19.0	16.0	15.5	15.5	9.5	9.0	9.5	5.5	5.0	5.5
24	19.5	18.5	19.0	16.0	15.0	15.5	9.5	9.5	9.5	5.5	5.0	5.5
25	19.0	18.5	19.0	16.0	15.0	15.5	9.5	9.0	9.5	5.0	4.0	5.0
26	19.0	18.5	19.0	15.5	15.0	15.5	9.5	8.5	9.0	5.0	4.5	5.0
27	19.5	18.0	19.0	15.5	15.0	15.0	9.0	8.0	8.5	5.5	5.0	5.0
28	19.0	18.0	19.0	16.5	15.0	15.5	9.0	6.5	8.5	5.0	5.0	5.0
29	19.0	18.0	18.5	15.5	15.0	15.0	9.0	8.0	8.5	5.5	4.5	5.0
30	19.0	18.0	18.5	15.0	14.5	14.5	9.0	8.5	8.5	5.5	4.5	5.0
31	19.0	18.0	18.5	---	---	---	9.5	8.0	8.5	5.5	5.0	5.0
MONTH	25.5	18.0	21.0	19.5	14.5	16.5	14.5	6.5	10.5	9.5	4.0	6.0

03572375 TENNESSEE RIVER NEAR BELLEFONTE, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.0	4.0	4.5	8.5	7.0	8.0	13.0	12.0	13.0	18.0	16.0	17.0
2	5.0	4.0	4.5	9.0	7.0	8.5	13.5	13.0	13.0	18.5	17.0	18.0
3	4.5	4.0	4.5	10.5	8.5	9.0	14.0	13.0	13.5	18.5	17.0	18.0
4	5.0	4.0	4.5	10.0	8.5	9.5	14.0	13.5	14.0	18.5	17.0	18.0
5	5.0	4.5	4.5	11.0	9.0	10.0	14.0	13.5	14.0	18.5	17.0	18.0
6	4.5	4.5	4.5	11.5	10.0	11.0	14.5	13.5	14.0	19.0	17.0	18.0
7	5.0	4.0	4.5	11.0	10.0	10.5	14.5	13.5	14.0	19.0	18.0	18.5
8	5.0	4.0	4.5	11.0	9.5	10.0	14.5	14.0	14.0	19.0	18.5	19.0
9	5.0	3.5	4.0	10.0	9.0	9.5	14.5	13.5	14.0	19.5	19.0	19.5
10	4.5	3.5	4.0	9.5	9.0	9.5	14.0	13.0	13.5	20.0	15.5	16.5
11	4.5	3.5	4.0	9.5	8.5	9.0	15.5	13.5	14.5	20.0	19.5	20.0
12	4.5	4.0	4.5	10.0	8.5	9.0	15.5	14.5	15.0	20.0	19.5	20.0
13	5.0	4.0	4.5	10.0	9.0	9.5	15.0	14.0	14.5	20.0	19.5	20.0
14	5.5	5.0	5.0	11.0	9.5	10.0	15.0	14.0	14.5	19.5	19.0	19.5
15	6.0	4.5	5.5	10.5	9.5	10.0	15.5	14.0	15.0	20.0	19.0	20.0
16	6.5	5.5	6.0	10.0	9.0	9.5	15.5	14.5	15.0	20.5	19.5	20.0
17	5.5	4.5	5.0	10.5	9.5	10.0	15.5	15.0	15.5	20.5	19.5	20.0
18	5.0	4.5	5.0	10.5	10.0	10.5	15.5	15.0	15.5	21.0	20.0	20.5
19	6.0	3.5	5.0	11.0	10.0	10.5	16.0	15.0	15.5	21.0	20.5	20.5
20	5.5	4.5	5.0	11.0	10.5	11.0	16.5	15.0	16.0	21.5	20.5	21.0
21	6.0	5.5	5.5	12.0	11.0	11.5	16.5	15.5	16.0	21.5	21.0	21.0
22	7.0	5.5	6.0	13.5	11.5	12.0	16.5	16.0	16.5	21.5	20.5	21.5
23	8.0	7.0	7.0	13.0	11.5	12.0	16.5	16.0	16.5	21.5	21.0	21.5
24	9.0	8.0	8.0	12.0	11.5	12.0	16.5	16.5	16.5	21.5	20.0	21.0
25	8.0	7.0	8.0	11.5	10.5	11.0	16.5	16.5	16.5	20.0	19.0	19.5
26	8.0	7.0	8.0	11.5	10.0	11.0	17.0	16.0	16.5	19.5	18.5	19.0
27	8.5	6.5	8.0	11.5	11.0	11.5	17.0	16.5	17.0	19.0	19.0	19.0
28	8.0	7.0	8.0	12.0	11.0	11.5	17.0	16.0	16.5	19.5	18.5	19.0
29	---	---	---	12.0	11.5	12.0	17.0	16.0	16.5	20.0	19.0	19.5
30	---	---	---	13.0	12.0	13.0	18.0	16.0	17.0	20.5	19.0	20.0
31	---	---	---	13.0	13.0	13.0	---	---	---	20.5	19.5	20.0
MONTH	9.0	3.5	5.5	13.5	7.0	10.5	18.0	12.0	15.0	21.5	15.5	19.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.0	18.5	19.5	25.0	24.0	24.5	24.5	24.0	24.5	24.0	23.0	23.5
2	20.5	19.5	20.0	25.0	24.0	24.5	24.5	24.0	24.5	23.5	23.5	23.5
3	20.5	19.5	20.0	24.5	23.5	24.0	24.5	24.0	24.5	23.5	23.0	23.5
4	20.5	20.0	20.5	25.0	24.0	24.5	25.0	24.0	24.5	23.5	23.0	23.5
5	21.0	20.0	20.5	25.5	24.5	25.0	25.5	24.5	25.0	24.0	23.0	23.5
6	21.0	20.5	21.0	25.0	24.5	24.5	25.5	24.5	25.0	24.0	23.0	23.5
7	21.0	20.0	20.5	24.5	24.0	24.5	25.5	25.0	25.5	24.0	23.0	23.5
8	21.5	20.5	21.0	24.5	24.0	24.0	25.5	24.5	25.0	24.0	23.0	23.5
9	22.0	21.0	21.5	24.0	23.5	23.5	25.5	24.5	25.0	24.0	22.0	23.5
10	22.0	21.0	22.0	24.0	23.0	23.5	26.0	25.0	25.5	23.5	22.0	23.0
11	22.0	21.0	22.0	23.5	23.0	23.5	25.5	24.5	25.0	23.5	21.5	23.0
12	23.0	21.0	22.0	23.5	23.0	23.0	25.0	24.0	24.5	23.5	22.0	23.0
13	23.0	21.5	22.0	23.5	22.0	23.0	25.0	24.0	25.0	23.5	22.0	23.0
14	23.0	22.0	23.0	23.5	22.0	23.5	25.0	24.0	25.0	23.0	21.5	22.0
15	23.0	22.0	23.0	---	---	---	25.0	24.0	25.0	22.0	21.0	21.5
16	23.0	22.0	23.0	---	---	---	25.0	24.0	24.5	22.0	20.5	21.5
17	23.5	22.0	23.0	---	---	---	25.0	24.0	24.5	21.5	21.0	21.5
18	24.0	23.0	23.5	---	---	---	25.0	23.5	24.5	21.5	21.0	21.0
19	24.0	23.0	23.5	---	---	---	24.5	23.5	24.0	21.5	20.5	21.0
20	24.5	23.5	24.5	---	---	---	24.5	23.5	24.0	21.5	21.0	21.0
21	24.0	24.0	24.0	---	---	---	25.0	23.5	24.5	21.5	20.5	21.0
22	24.0	24.0	24.0	---	---	---	25.0	24.0	24.5	21.5	20.0	21.0
23	25.0	24.0	24.5	---	---	---	25.0	24.0	24.5	21.0	19.5	20.5
24	24.5	24.0	24.5	---	---	---	24.5	23.5	24.5	21.0	20.0	20.5
25	24.5	24.0	24.0	24.0	23.0	23.5	25.0	23.5	24.5	21.0	19.5	20.5
26	24.0	23.5	23.5	24.0	23.0	23.5	25.0	24.0	24.5	21.0	19.5	20.5
27	24.5	23.5	24.0	23.5	22.0	23.0	25.0	24.0	24.5	21.0	19.5	20.5
28	24.5	24.0	24.5	24.0	23.0	23.5	25.0	24.0	24.5	20.0	19.0	20.0
29	24.5	24.0	24.5	24.0	23.5	24.0	25.0	24.0	24.5	19.5	18.5	19.0
30	24.5	24.0	24.5	24.5	23.5	24.0	24.5	24.0	24.5	19.5	18.5	19.0
31	---	---	---	24.5	24.0	24.5	24.0	23.0	24.0	---	---	---
MONTH	25.0	18.5	22.5	25.5	22.0	24.0	26.0	23.0	24.5	24.0	18.5	22.0

03572900 TOWN CREEK NEAR GERALDINE, AL

LOCATION.--Lat 34°22'42", long 85°59'25", in SE¼ sec. 34, T. 7 S., R. 6 E., DeKalb County, Hydrologic Unit 06030001, on downstream side of bridge on State Highway 75, 0.3 mi (0.5 km) downstream from Reedy Creek, 0.9 mi (1.4 km) upstream from Traylor Branch, 2 mi (3.2 km) north-northeast of Geraldine, 15 mi (24.1 km) northeast of Albertville, and at mile 20.4 (32.8 km).

DRAINAGE AREA.--141 mi^2 (365 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,000 ft (305 m) from topographic map.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--22 years, 279 ft^3/s (7.901 m^3/s), 26.87 in/yr (682 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft^3/s (501 m^3/s) Apr. 29, 1963, gage height, 21.70 ft (6.614 m); no flow for many days in 1957, 1960, 1963, and 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 25	1015	6140	174	11.46	3.493	Apr. 13	1230	12200	346	17.78	5.419
Mar. 4	0400	*15000	425	*20.20	6.157						

Minimum daily discharge, no flow Oct. 10 to Nov. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.00	5.2	1210	254	760	164	310	376	29	162	25
2	.27	.00	5.1	1840	231	593	188	250	217	25	138	1210
3	.23	.00	5.4	832	232	2230	1060	220	447	21	114	372
4	.16	.00	47	540	238	10800	888	250	409	21	89	413
5	.10	.00	69	430	213	2210	594	250	246	25	77	190
6	.06	.00	37	378	212	1060	450	200	501	43	65	127
7	.03	.00	22	1050	432	773	372	170	601	32	54	96
8	.02	.00	21	964	403	630	326	150	350	22	45	77
9	.01	.00	714	572	339	501	612	140	262	22	39	61
10	.00	.00	321	439	296	474	432	130	205	34	39	52
11	.00	.00	175	371	277	565	343	110	169	38	39	44
12	.00	.00	128	330	261	432	1830	100	137	40	64	39
13	.00	.00	104	316	244	377	8860	130	113	42	54	39
14	.00	.00	88	289	228	385	2490	170	94	34	40	45
15	.00	.00	78	249	219	352	1140	150	80	30	30	50
16	.00	.00	83	234	201	295	779	120	72	25	27	46
17	.00	.09	132	226	183	264	593	90	64	22	23	39
18	.00	.22	116	225	210	243	473	70	56	16	20	45
19	.00	.11	104	215	205	222	389	60	49	13	18	49
20	.00	.07	97	1030	241	205	330	50	43	48	16	44
21	.00	.05	169	1890	464	193	278	50	39	298	14	49
22	.00	.05	185	983	564	180	242	50	36	604	13	70
23	.00	.11	152	687	511	570	221	52	35	260	154	65
24	.00	.10	160	916	1950	546	206	62	291	310	200	50
25	.00	1.3	218	606	4510	369	450	68	121	1140	150	42
26	.00	2.0	181	486	1870	301	650	55	76	1420	100	38
27	.00	2.4	154	437	1020	260	1100	47	58	609	80	438
28	.00	2.2	137	381	744	234	700	73	45	397	60	2750
29	.00	2.9	123	324	---	208	540	76	36	336	50	1070
30	.00	3.6	135	298	---	187	400	70	32	239	44	615
31	.00	---	440	288	---	171	---	450	---	231	30	---
TOTAL	1.11	15.20	4405.7	19036	16752	26590	27100	4173	5262	6426	2048	8250
MEAN	.036	.51	142	614	598	858	903	135	175	207	66.1	275
MAX	.27	3.6	714	1890	4510	10800	8860	450	601	1420	200	2750
MIN	.00	.00	5.1	215	183	171	164	47	32	13	13	25
CFSM	.000	.004	1.01	4.36	4.24	6.09	6.40	.96	1.24	1.47	.47	1.95
IN.	.00	.00	1.16	5.02	4.42	7.02	7.15	1.10	1.39	1.70	.54	2.18

CAL YR 1978 TOTAL 60908.74 MEAN 167 MAX 2500 MIN .00 CFSM 1.18 IN 16.07
WTR YR 1979 TOTAL 120059.01 MEAN 329 MAX 10800 MIN .00 CFSM 2.33 IN 31.67

03572900 TOWN CREEK NEAR GERALDINE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1970 to February 1972, October 1976 to current year.
WATER TEMPERATURES: April 1968 to September 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 32.0°C June 27-30, 1969; minimum, 2.0°C on several days in 1968, 1969, and 1970.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965-68, 1973-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama, and the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
DEC										
12...	1600	107	83	6.6	5.5	12.4	28	23	7.4	2.3
JAN										
18...	1015	197	78	6.5	7.0	12.0	31	26	9.0	2.0
MAR										
01...	1505	790	--	6.4	9.5	11.9	23	21	6.7	1.6
APR										
12...	1410	1050	58	6.9	15.0	9.5	25	16	7.5	1.4
MAY										
23...	0845	111	63	7.1	20.0	8.0	21	11	6.0	1.5
JUN										
28...	1450	43	63	--	22.0	8.5	--	--	--	--
AUG										
30...	1255	44	60	6.2	24.0	8.3	22	7	5.5	1.9

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
DEC										
12...	2.3	14	.2	3.0	6	0	5	2.4	14	5.5
JAN										
18...	2.2	13	.2	2.1	6	0	5	3.0	7.6	5.8
MAR										
01...	1.4	11	.1	1.8	3	0	2	1.9	6.8	4.4
APR										
12...	1.6	12	.1	1.8	11	0	9	2.2	5.8	3.4
MAY										
23...	3.0	21	.3	2.6	12	0	10	1.5	7.6	3.8
JUN										
28...	--	--	--	--	16	0	13	--	--	--
AUG										
30...	2.1	15	.2	2.8	18	0	15	18	4.9	5.0

03572900 TOWN CREEK NEAR GERALDINE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
DEC										
12...	.0	4.8	56	.08	16.2	3.2	14	<1	<50	1
JAN										
18...	.0	4.7	56	.08	29.8	4.3	19	ND	100	ND
MAR										
01...	.1	3.3	47	.06	100	4.3	19	ND	<100	<1
APR										
12...	.1	3.4	39	.05	111	2.0	8.8	ND	90	ND
MAY										
23...	.0	4.1	40	.05	12.0	1.2	5.4	ND	60	ND
JUN										
28...	--	--	--	--	--	--	--	--	--	--
AUG										
30...	.1	2.4	37	.05	4.42	.68	3.0	1	60	<1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
DEC									
12...	ND	4	90	1	52	<.2	--	50	<5
JAN									
18...	ND	1	30	1	<5	.5	--	50	10
MAR									
01...	1	4	50	1	<5	<.2	ND	100	10
APR									
12...	ND	4	50	ND	5	ND	ND	60	30
MAY									
23...	ND	8	240	4	19	.2	ND	50	80
JUN									
28...	--	--	--	--	--	--	--	--	--
AUG									
30...	ND	ND	130	1	<5	<.2	ND	100	<5

03574500 PAINT ROCK RIVER NEAR WOODVILLE, AL

LOCATION.--Lat 34°37'27", long 86°18'23", in NW¼ sec. 10, T. 5 S., R. 3 E., Jackson County, Hydrologic Unit 06030002, on downstream side of bridge on U.S. Highway 72, 1,000 ft (305 m) downstream from Southern Railway bridge, 2 mi (3.2 km) west of Woodville, 4.1 mi (6.6 km) upstream from Little Paint Creek, and at mile 26.6 (42.8 km).

DRAINAGE AREA.--320 mi^2 (829 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 570.95 ft (174.026 m) National Geodetic Vertical Datum of 1929. Dec. 23, 1935, to Jan. 16, 1938, nonrecording gage, Jan. 17, 1938, to July 24, 1940, water-stage recorder, at same site and datum. July 25, 1940, to Mar. 13, 1963, water-stage recorder at site 20 ft (6 m) downstream at same datum.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--43 years, 689 ft^3/s (19.51 m^3/s), 29.24 in/yr (743 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,200 ft^3/s (2,100 m^3/s) Mar. 16, 1973, gage height, 24.40 ft (7.437 m); minimum, 1.3 ft^3/s (0.037 m^3/s) Oct. 21, 1954, gage height, 0.28 ft (0.085 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft^3/s (170 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 2	unknown	7530	213	17.40	5.304	Apr. 14	0100	10400	295	18.32	5.584
Jan. 22	1200	7060	200	17.22	5.249	Sept. 29	0900	14600	413	19.25	5.867
Mar. 4	2100	*16000	453	*19.49	5.941						

Minimum daily discharge, 7.2 ft^3/s (0.204 m^3/s) Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	7.2	163	3650	413	1110	400	408	1030	60	436	378
2	26	7.4	84	6460	345	991	815	363	613	56	417	1470
3	22	7.5	46	5670	316	1370	2860	327	1460	52	280	1590
4	21	7.5	120	2930	308	9510	3280	343	1460	50	217	992
5	21	7.7	544	1440	288	11000	2270	740	801	47	165	682
6	20	7.7	242	777	275	5050	1330	569	841	43	128	511
7	18	8.0	125	1610	647	2550	921	452	1960	41	100	377
8	17	9.3	80	3030	1150	1590	749	382	1280	40	80	292
9	16	9.6	1350	2150	742	1000	790	332	746	41	66	235
10	16	9.7	2050	1180	595	918	994	295	572	43	57	188
11	15	10	609	773	515	1520	688	262	962	42	183	150
12	14	8.2	258	609	478	1220	1590	236	989	44	682	122
13	15	8.1	167	518	457	899	6850	217	537	45	272	168
14	14	8.2	116	449	431	793	9270	202	409	49	197	1310
15	13	8.1	88	361	403	914	5280	185	325	48	132	943
16	12	8.4	86	299	373	742	2610	163	267	46	90	477
17	12	9.7	182	271	320	618	1500	145	226	42	70	341
18	11	11	281	279	304	537	936	129	196	38	57	277
19	11	17	195	365	303	481	730	120	168	35	49	243
20	11	33	146	1850	336	437	622	114	143	40	43	215
21	10	23	580	5000	831	409	538	109	125	318	38	215
22	9.7	17	1130	7230	2260	380	470	206	125	1280	35	276
23	9.2	15	474	4330	1570	1270	425	350	118	636	34	301
24	8.5	13	339	2000	1880	3020	392	1260	117	353	470	259
25	8.3	12	611	1090	2970	2210	374	796	107	383	743	234
26	8.2	12	467	738	3740	1270	692	456	96	1960	988	211
27	8.4	20	311	625	2380	877	837	341	88	1340	972	632
28	8.3	18	232	630	1500	700	706	429	80	554	971	3190
29	8.0	18	185	620	---	586	546	503	72	372	1480	10700
30	7.7	37	359	571	---	499	464	428	66	302	1090	7110
31	7.5	---	2100	490	---	434	---	875	---	566	536	---
TOTAL	424.8	388.3	13720	57995	26130	54905	49929	11737	15979	8966	11078	34089
MEAN	13.7	12.9	443	1871	933	1771	1664	379	533	289	357	1136
MAX	26	37	2100	7230	3740	11000	9270	1260	1960	1960	1480	10700
MIN	7.5	7.2	46	271	275	380	374	109	66	35	34	122
CFSM	.04	.04	1.38	5.85	2.92	5.53	5.20	1.18	1.67	.90	1.12	3.55
IN.	.05	.05	1.59	6.74	3.04	6.38	5.80	1.36	1.86	1.04	1.29	3.96

CAL YR 1978 TOTAL 154942.1 MEAN 424 MAX 3960 MIN 7.2 CFSM 1.33 IN 18.01
WTR YR 1979 TOTAL 285341.1 MEAN 782 MAX 11000 MIN 7.2 CFSM 2.44 IN 33.17

03574500 PAINT ROCK RIVER NEAR WOODVILLE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1968, 1969, 1972-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV										
01...	1610	7.0	385	7.6	17.0	6.9	190	13	63	6.7
DEC										
12...	1130	253	268	7.9	7.5	10.9	140	26	48	5.0
JAN										
15...	1545	344	250	7.8	7.0	11.6	120	8	43	3.8
FEB										
27...	1630	2230	201	7.6	9.5	13.2	99	17	33	3.9
APR										
11...	1030	687	--	7.7	15.0	9.7	120	12	40	4.6
MAY										
21...	1320	77	245	7.4	22.5	7.4	140	26	47	5.5
JUN										
26...	1410	93	254	7.8	21.5	6.9	--	--	--	--
AUG										
28...	1515	770	251	7.5	21.0	7.9	130	9	45	4.6

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
01...	1.5	2	.0	.7	210	0	172	8.4	11	3.1
DEC										
12...	.8	1	.0	.7	140	0	115	2.8	19	.9
JAN										
15...	.8	1	.0	.6	140	0	115	3.6	6.0	1.6
FEB										
27...	.6	1	.0	.4	100	0	82	4.0	7.4	1.3
APR										
11...	.7	1	.0	.5	130	0	107	4.2	5.9	1.2
MAY										
21...	2.0	3	.1	.9	140	0	115	8.9	9.6	1.4
JUN										
26...	--	--	--	--	150	0	123	3.8	--	--
AUG										
28...	1.0	2	.0	.8	150	0	123	7.6	5.4	1.1

03574500 PAINT ROCK RIVER NEAR WOODVILLE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
NOV										
01...	.1	5.5	203	.28	3.88	1.6	7.3	<1	<50	ND
DEC										
12...	.0	5.4	156	.21	106	1.6	6.9	<1	100	<1
JAN										
15...	.0	5.4	134	.18	124	.79	3.5	<1	<50	<1
FEB										
27...	.1	4.0	108	.15	650	1.9	8.2	ND	<100	ND
APR										
11...	.1	5.0	123	.17	228	.27	1.2	ND	<90	ND
MAY										
21...	.1	3.7	140	.19	29.1	.12	.53	ND	140	<1
JUN										
26...	--	--	--	--	--	--	--	--	--	--
AUG										
28...	.1	5.8	139	.19	289	.19	.84	<1	200	1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
NOV									
01...	ND	<1	10	2	110	.3	ND	270	ND
DEC									
12...	ND	ND	120	<1	24	<.2	--	170	<5
JAN									
15...	ND	<1	10	2	<5	.4	--	140	ND
FEB									
27...	ND	5	50	6	ND	<.2	ND	140	20
APR									
11...	ND	3	10	ND	<5	.2	ND	200	10
MAY									
21...	ND	2	40	1	38	<.2	ND	200	<5
JUN									
26...	--	--	--	--	--	--	--	--	--
AUG									
28...	ND	3	20	4	<5	<.2	ND	230	20

03575000 FLINT RIVER NEAR CHASE, AL

LOCATION.--Lat 34°49'22", long 86°28'59", in NW¼NW¼ sec. 36, T. 2 S., R. 1 E., Madison County, Hydrologic Unit 06030003, on left bank 10 ft (3 m) downstream from Winchester Road, 400 ft (122 m) downstream from Brier Fork, 1,100 ft (335 m) upstream from L & N Railroad bridge, 4.3 mi (6.9 km) northeast of Chase, Ala., and at mile 36.2 (58.2 km).

DRAINAGE AREA.--342 mi^2 (886 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to current year. Prior to May 1930 monthly discharge only, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 853: 1936(M). WSP 1306: 1934(M). WSP 1910: Peak discharge (base).

GAGE.--Water-stage recorder. Datum of gage is 640.37 ft (195.185 m) National Geodetic Vertical Datum of 1929. May 1934 to January 1975, water-stage recorder 0.2 mi (0.3 km) downstream at same datum. Prior to May 1934, nonrecording gage 1,100 ft (335 m) downstream at L & N Railroad bridge at same datum.

REMARKS.--Water-discharge record good.

AVERAGE DISCHARGE.--50 years, 554 ft^3/s (15.69 m^3/s), 22.00 in/yr (559 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 104,000 ft^3/s (2,945 m^3/s) Mar. 16, 1973, gage height, 29.52 ft (8.998 m); minimum, 44 ft^3/s (1.25 m^3/s) Sept. 20, 27, 30, 1931; minimum gage height, 0.82 ft (0.250 m) Sept. 3, 27, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1929 reached a stage of 25.0 ft (7.62 m) from flood-marks, discharge, 58,500 ft^3/s (1,657 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft^3/s (170 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 2	0500	8300	235	11.26	3.432	Apr. 13	0430	12600	357	14.07	4.289
Jan. 21	unknown	unknown	unknown	unknown	unknown	Aug. 27	1000	6810	193	10.09	3.075
Feb. 25	1630	12800	362	14.14	4.310	Sept. 28	0545	6540	185	9.86	3.005
Mar. 4	1045	*18100	512	*16.47	5.020						

Minimum daily discharge, 70 ft^3/s (1.98 m^3/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	82	156	4570	490	1030	473	328	516	132	276	449
2	103	80	129	6140	433	903	1910	321	328	125	315	1660
3	88	82	122	2440	425	2250	2880	321	1410	132	270	693
4	85	82	394	1440	465	14000	1750	767	623	132	221	425
5	80	82	371	1050	441	3280	1130	742	364	118	211	315
6	77	82	237	991	410	1420	820	482	1210	139	192	264
7	72	91	183	5000	957	1080	669	394	2000	143	174	231
8	70	94	335	3500	957	925	591	342	780	170	166	206
9	72	100	1940	2500	681	807	1070	301	473	143	158	188
10	72	91	1100	1800	543	946	871	282	386	139	143	179
11	72	88	600	1200	499	1250	612	259	1930	132	301	166
12	85	94	325	900	490	840	3810	248	623	132	755	162
13	88	91	289	700	465	705	11000	237	379	129	301	211
14	94	88	259	600	441	742	3600	226	289	139	211	1040
15	97	85	231	550	425	729	1570	211	242	135	179	418
16	91	103	242	450	394	571	1100	206	216	115	162	259
17	85	132	335	430	364	525	892	183	206	106	154	206
18	85	146	356	600	371	490	755	183	192	91	146	188
19	82	129	328	900	386	465	657	183	179	94	139	188
20	82	109	248	3000	425	490	591	174	170	139	135	183
21	80	100	601	10000	1030	534	543	170	179	394	132	179
22	80	100	1100	8000	1130	499	516	188	282	364	132	226
23	80	109	600	5000	793	1250	516	211	206	188	125	242
24	77	118	330	3000	957	1250	516	315	188	146	482	237
25	82	118	270	2000	9380	767	516	253	183	705	840	237
26	82	106	240	1400	4740	591	571	206	179	851	1350	226
27	85	112	220	1000	1550	516	516	192	162	308	4390	1450
28	85	122	200	700	1110	482	441	226	154	202	851	6060
29	88	135	190	650	---	441	402	259	146	166	646	2500
30	85	192	600	580	---	425	371	282	135	534	379	900
31	85	---	1200	543	---	402	---	830	---	482	301	---
TOTAL	2595	3143	13733	71634	30752	40605	41659	9522	14330	6925	14237	19888
MEAN	83.7	105	443	2311	1098	1310	1389	307	478	223	459	663
MAX	106	192	1940	10000	9380	14000	11000	830	2000	851	4390	6060
MIN	70	80	122	430	364	402	371	170	135	91	125	162
CFSM	.25	.31	1.30	6.76	3.21	3.83	4.06	.90	1.40	.65	1.34	1.94
IN.	.28	.34	1.49	7.79	3.34	4.42	4.53	1.04	1.56	.75	1.55	2.16

CAL YR 1978 TOTAL 140536 MEAN 385 MAX 5830 MIN 70 CFSM 1.13 IN 15.29
WTR YR 1979 TOTAL 269023 MEAN 737 MAX 14000 MIN 70 CFSM 2.16 IN 29.26

03575000 FLINT RIVER NEAR CHASE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1964 to September 1967, November 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1964 to September 1967, November 1970 to 1978 (discontinued).

INSTRUMENTATION.--Temperature recorder May 1964 to September 1967, and since November 1970.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1968, and 1969.

COOPERATION.--Temperature records furnished by Tennessee Valley Authority. Water-quality samples collected by the U.S. Geological Survey and analyzed by the Geological Survey of Alabama.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 29.0°C July 7-9, 1977; minimum, 0.0°C on several days in 1976, 1977, and 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO FEBRUARY 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV										
02...	1300	77	--	7.8	16.5	9.7	66	6	20	4.0
MAR										
08...	1330	751	111	7.4	9.5	11.0	54	9	18	2.1

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
02...	1.1	3	.1	.7	74	0	61	1.9	.4	2.1
MAR										
08...	1.4	5	.1	.9	54	0	44	3.4	1.9	2.9

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)
NOV										
02...	.1	6.9	78	.11	16.3	1.3	5.8	<1	<50	1
MAR										
08...	.1	5.7	65	.09	132	1.2	5.3	ND	<100	ND

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV									
02...	ND	3	40	1	<5	.2	ND	50	ND
MAR									
08...	1	2	240	2	ND	.2	ND	80	80

03575040 FLINT RIVER NEAR MOUNT CARMEL, AL

LOCATION.--Lat 34°47'13", long 86°28'51", in NE¼SW¼SW¼ sec. 12, T. 3 S., R. 1 E., Madison County, Hydrologic Unit 06030002, 1600 ft (488 m) downstream from Chase Creek, 0.7 mi (1.1 km) northeast of Acuff Spring, 1.3 mi (2.1 km) southeast of Mount Carmel, and at mile 33.0 (53.1 km).

DRAINAGE AREA.--362 mi^2 (938 km^2).

PERIOD OF RECORD.--February to September 1972, March 1975 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV										
02...	1405	96	184	7.8	17.0	9.5	81	28	25	4.4
DEC										
12...	1000	422	146	7.6	6.5	10.8	70	15	23	3.1
JAN										
15...	1430	441	123	7.4	6.0	12.4	70	27	23	3.1
FEB										
28...	1300	830	128	7.2	10.0	12.2	57	13	18	3.0
APR										
11...	0940	697	138	7.6	15.0	9.2	62	9	20	2.8
MAY										
01...	1150	250	147	6.9	21.0	9.0	78	15	25	3.7
JUN										
26...	1245	246	188	7.7	20.0	8.7	--	--	--	--
SEP										
04...	1220	482	175	7.1	21.5	8.3	85	12	28	3.5

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
02...	2.1	5	.1	.7	64	0	52	1.6	38	2.7
DEC										
12...	1.5	4	.1	1.3	68	0	56	2.7	10	2.0
JAN										
15...	1.5	4	.1	1.2	53	0	43	3.4	4.6	3.4
FEB										
28...	1.3	5	.1	.8	54	0	44	5.5	6.0	3.2
APR										
11...	1.5	5	.1	.8	64	0	52	2.6	--	2.6
MAY										
01...	2.3	6	.1	.9	76	0	62	15	2.0	2.2
JUN										
26...	--	--	--	--	72	0	59	2.3	--	--
SEP										
04...	1.7	4	.1	1.7	88	0	72	11	2.5	2.4

03575040 FLINT RIVER NEAR MOUNT CARMEL, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
NOV										
02...	.1	7.5	116	.16	30.2	.88	3.9	1	100	<1
DEC										
12...	.0	7.2	87	.12	99.1	1.1	5.0	<1	<50	1
JAN										
15...	.0	7.5	78	.11	92.9	1.6	7.1	<1	<50	<1
FEB										
28...	.1	5.9	71	.10	159	1.4	6.2	ND	ND	<1
APR										
11...	.0	6.6	--	--	--	.93	4.1	ND	50	ND
MAY										
01...	.0	7.4	86	.12	58.0	1.2	5.3	ND	110	<1
JUN										
26...	--	--	--	--	--	--	--	--	--	--
SEP										
04...	.1	7.6	96	.13	125	1.0	4.4	1	190	<1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
NOV									
02...	ND	1	30	2	13	.3	ND	50	10
DEC									
12...	ND	5	200	<1	30	<.2	--	70	10
JAN									
15...	ND	<0	200	3	30	.5	--	40	<5
FEB									
28...	ND	4	60	2	ND	<.2	ND	150	10
APR									
11...	ND	1	130	ND	<5	.4	ND	100	10
MAY									
01...	ND	4	50	ND	14	<.2	ND	70	ND
JUN									
26...	--	--	--	--	--	--	--	--	--
SEP									
04...	1	2	50	1	10	<.2	ND	80	20

TENNESSEE RIVER MAIN STEM

03575500 TENNESSEE RIVER AT WHITESBURG, AL

LOCATION.--Lat 34°34'18", long 86°33'29", SW¼ sec. 29, T. 5 S., R. 1 E., Madison County, Hydrologic Unit 06030003, at Whitesburg, on right bank, 2,500 ft (762 m) upstream from Aldridge Creek, 3,000 ft (914 m) upstream from Clement C. Clay Bridge on U.S. Highway 231, 11.0 mi (17.7 km) south of Huntsville, 15.1 mi (24.3 km) downstream from Guntersville Dam, and at mile 333.9 (537.2 km).

DRAINAGE AREA.--25,610 mi^2 (6,633 km^2), approximately.

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1306. Prior to October 1936, published as "at Decatur." Gage-height records collected in this vicinity since 1875 (fragmentary prior to April 1909) are contained in files of Corps of Engineers and in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 549.00 ft (167.335 m) National Geodetic Vertical Datum of 1929. Oct. 1, 1924, to Dec. 2, 1926, nonrecording gage and Dec. 3, 1926, to Sept. 30, 1936, water-stage recorder, at site 28.3 mi (45.5 km) downstream at datum 14.70 ft (4.481 m) lower. Oct. 1, 1936, to Sept. 30, 1960, water-stage recorder 830 ft (253 m) downstream at same datum. Since Mar. 4, 1937, auxiliary gage is 28.3 mi (45.5 km) downstream.

REMARKS.--Records good except those below 20,000 ft^3/s (566 m^3/s) which are poor. Discharge below 20,000 ft^3/s (566 m^3/s) computed on basis of records for Guntersville Dam, adjusted for storage and inflow. Since 1936, flow regulated by increasing number of reservoirs above station.

AVERAGE DISCHARGE.--55 years, 43,800 ft^3/s (1,240 m^3/s), 23.23 in/yr (590 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 323,000 ft^3/s (9,147 m^3/s) Mar. 19, 1973, gage height, 26.06 ft (7.943 m); minimum daily, 400 ft^3/s (11.3 m^3/s) July 24, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 31.4 ft (9.57 m) in March 1867, present site and datum, from high-water profile by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 217,000 ft^3/s (6,150 m^3/s), gage height, 19.75 ft (6,020 m) Mar. 6; minimum daily, 13,100 ft^3/s (371 m^3/s) Nov. 16; minimum gage height, 2.02 ft (0.616 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17400	15000	23000	83500	73300	123000	46300	37300	110000	24400	60300	35000
2	22400	14700	15000	104000	67500	121000	38200	35500	114000	31800	54700	40200
3	22600	13900	17600	107000	57000	121000	41100	40400	103000	31900	49300	53900
4	18300	13600	29400	99200	54600	159000	52300	55100	78900	32700	49200	50700
5	17300	13900	36000	96300	48800	204000	43900	52500	65300	32600	43600	49300
6	17200	13200	35200	85900	44700	214000	40600	36800	57800	32300	43000	48100
7	17300	14100	30800	90000	48600	200000	38600	26200	61200	20900	46600	47700
8	17800	13600	27700	94000	49900	180000	38000	31200	57500	22400	45900	40600
9	22300	13300	41700	94000	49900	166000	34300	36000	50700	31400	43600	37200
10	24300	13700	56400	96000	48700	151000	36000	36100	49700	32900	37000	40600
11	24500	13500	51900	100000	48700	138000	44100	35700	44600	37400	27800	43000
12	21400	13800	45300	94000	44200	131000	63700	35600	39100	44400	27500	44600
13	16600	14600	42400	90000	38000	118000	109000	29700	35900	34400	45800	45100
14	16400	13300	33500	86000	38100	105000	145000	30300	35700	30300	48300	35500
15	15700	13400	32900	84000	41800	95700	131000	34500	29500	34100	48500	28600
16	19200	13100	34100	75000	36900	91400	113000	34400	25200	40700	45500	37900
17	18800	15900	36700	70000	36500	80500	90000	33700	25000	52800	39700	37900
18	23800	16700	36700	60000	36400	64000	65600	29000	27900	52800	23400	40700
19	21900	16700	36600	60000	42200	50500	59000	24800	32100	52100	26200	33800
20	18400	22000	36400	82000	40300	49100	48500	23400	32000	47000	39500	30300
21	16600	21300	37700	110000	36000	49000	45000	28700	31300	41800	43200	30200
22	16000	24000	37000	125000	47500	48800	42100	35600	31300	71600	47300	41200
23	16000	15600	34500	157000	51200	50400	37900	38600	31300	61900	44000	40800
24	17000	16300	35200	180000	60600	54600	37600	59100	31300	87000	44500	43400
25	16000	20500	38000	190000	81600	53100	36400	74400	30900	88100	30300	37500
26	15000	21600	37400	180000	103000	52600	38600	69700	32900	91700	31400	38600
27	15000	24800	37600	120000	113000	51700	45300	51600	32600	94900	46000	45700
28	14000	24800	36900	100000	124000	52900	39500	37500	33800	87900	51800	67000
29	15000	20300	35900	95000	---	56500	37700	37200	24900	79500	50300	90500
30	14000	19700	38500	86400	---	55600	37500	44300	21400	73500	49500	97400
31	16000	---	53200	79100	---	54100	---	72500	---	65900	48600	---
TOTAL	564200	500900	1121200	3173400	1563000	3141500	1675800	1247400	1376800	1583100	1332300	1353000
MEAN	18200	16700	36170	102400	55820	101300	55860	40240	45890	51070	42980	45100
MAX	24500	24800	56400	190000	124000	214000	145000	74400	114000	94900	60300	97400
MIN	14000	13100	15000	60000	36000	48800	34300	23400	21400	20900	23400	28600

CAL YR 1978 TOTAL 12943400 MEAN 35460 MAX 129000 MIN 13100
WTR YR 1979 TOTAL 18632600 MEAN 51050 MAX 214000 MIN 13100

03575830 INDIAN CREEK NEAR MADISON, AL

LOCATION.--Lat 34°41'50", long 86°42'00", in NE¼ sec. 14, T. 4 S., R. 2 W., Madison County, Hydrologic Unit 06030003, on downstream side of bridge on State Highway 20, 0.3 mi (0.5 km) downstream from Southern Railroad bridge, 2.8 mi (4.5 km) east of Madison, and at mile 5.8 (9.3 km).

DRAINAGE AREA.--49.0 mi^2 (126.9 km^2).

PERIOD OF RECORD.--October 1959 to September 1966, October 1975 to current year. October 1966 to September 1972 (annual maximum only). October 1972 to September 1975 (flood hydrograph only).

GAGE.--Water-stage recorder. Altitude of gage is 600 ft (183 m) above mean sea level (from topographic map).

REMARKS.--Records good. Records of specific conductance and water temperatures for the water year 1979 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--11 years (1959-66, 1977-79), 63.8 ft^3/s (1.807 m^3/s), 17.68 in/yr (449 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s (467 m^3/s) Mar. 16, 1973, gage height, 12.70 ft (3.871 m); 1959-66, minimum discharge, 2.5 ft^3/s (0.071 m^3/s) Aug. 3, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft^3/s (42.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 25	0815	1850	52.4	7.64	2.329	Apr. 13	0230	1700	48.1	7.48	2.280
Mar. 4	0315	*3050	86.4	*8.58	2.615	July 21	1445	1800	51.0	7.59	2.313

Minimum daily discharge, 4.0 ft^3/s (0.11 m^3/s) Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	4.0	9.5	534	71	154	68	58	27	13	18	33
2	5.5	4.1	9.0	274	66	128	144	56	31	13	18	91
3	5.2	4.3	9.4	75	68	522	176	61	30	13	15	31
4	5.4	4.2	16	54	66	1650	156	87	23	13	24	20
5	5.0	4.3	12	51	59	298	129	72	21	12	19	17
6	4.9	4.5	11	53	58	101	106	58	115	12	14	16
7	5.0	5.7	10	262	98	179	94	52	103	13	13	15
8	4.8	5.6	22	149	80	174	89	46	56	12	13	14
9	4.6	5.1	73	78	67	151	96	44	37	12	12	14
10	4.8	5.3	21	68	58	122	86	42	43	12	12	13
11	4.6	5.4	15	62	56	270	78	38	40	12	15	12
12	4.8	5.3	14	60	55	135	606	38	29	12	21	12
13	5.5	5.5	12	63	52	122	1260	36	26	12	14	24
14	7.1	5.6	12	60	50	125	339	33	24	11	12	31
15	5.6	5.9	11	48	49	108	152	31	22	12	12	19
16	5.1	6.7	13	45	45	99	175	29	21	11	12	16
17	5.1	9.5	13	44	43	94	152	28	20	11	12	15
18	5.4	7.2	12	48	47	90	135	27	18	10	11	15
19	5.6	5.4	12	47	47	86	122	26	18	10	11	15
20	5.4	5.1	12	253	48	84	111	25	17	11	11	15
21	5.0	5.3	20	631	98	82	102	24	17	619	12	18
22	5.1	5.8	17	209	94	77	96	24	16	71	13	18
23	5.0	8.0	16	165	79	135	95	26	16	22	12	16
24	4.8	7.6	16	145	93	111	90	28	16	19	14	15
25	4.9	7.2	15	134	1240	86	88	24	15	93	13	14
26	5.0	7.5	14	120	245	78	92	23	15	44	23	14
27	5.0	9.2	13	120	150	74	82	25	15	24	50	29
28	4.9	8.9	13	103	157	71	72	26	14	20	17	67
29	4.6	11	12	90	---	66	68	23	14	17	15	37
30	4.2	12	16	85	---	63	62	26	14	31	16	26
31	4.2	---	56	80	---	60	---	59	---	31	33	---
TOTAL	159.9	191.2	526.9	4210	3339	5595	5121	1195	873	1228	507	692
MEAN	5.16	6.37	17.0	136	119	180	171	38.5	29.1	39.6	16.4	23.1
MAX	7.8	12	73	631	1240	1650	1260	87	115	619	50	91
MIN	4.2	4.0	9.0	44	43	60	62	23	14	10	11	12
CFSM	.11	.13	.35	2.78	2.43	3.67	3.49	.79	.59	.81	.34	.47
IN.	.12	.15	.40	3.20	2.53	4.25	3.89	.91	.66	.93	.38	.53

CAL YR 1978 TOTAL 14685.2 MEAN 40.2 MAX 550 MIN 4.0 CFSM .82 IN 11.15
WTR YR 1979 TOTAL 23638.0 MEAN 64.8 MAX 1650 MIN 4.0 CFSM 1.32 IN 17.95

03575960 HUNTSVILLE SPRING BRANCH AT MARTIN ROAD NEAR HUNTSVILLE, AL

LOCATION.--Lat 34°39'33", long 86°36'16", in SW¼NE¼SW¼ sec. 26, T. 4 S., R. 1 W., Madison County, Hydrologic Unit 06030002, at bridge on Martin Road, 2.2 mi (3.5 km) northwest of Farley Station Post Office in Huntsville, and at mile 9.8 (15.8 km).

DRAINAGE AREA.--46.9 mi^2 (121.5 km^2).

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

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV										
01...	1035	39	550	7.7	21.5	5.7	140	0	42	7.5
MAR										
05...	1530	180	329	7.2	--	13.0	140	4	49	3.0

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
01...	51	43	1.9	8.0	220	0	180	7.0	39	37
MAR										
05...	13	17	.5	1.5	160	0	131	16	13	11

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)
NOV										
01...	.1	10	308	.42	32.4	1.1	5.0	1	100	1
MAR										
05...	.1	5.6	182	.25	88.5	1.5	6.8	<1	<100	<1

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV									
01...	ND	5	100	4	71	.5	ND	110	50
MAR									
05...	1	6	60	5	<5	<.2	ND	150	30

03576148 COTACO CREEK AT FLORETTE, AL

LOCATION.--Lat 34°24'49", long 86°41'16", in NE¼SE¼ sec. 24, T. 7 S., R. 2 W., Morgan County, Hydrologic Unit 06030002, on left bank at downstream side of bridge on county road, 0.9 mi (1.4 km) east of Florette, 1 mi (1.6 km) upstream from Sixmile Creek, and 3.1 mi (5.0 km) upstream from Wheeler Reservoir boundary.

DRAINAGE AREA.--136 mi^2 (352 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 570 ft (174 m) (from topographic map).

REMARKS.--Records good except those for periods of no gage-height record, which are poor.

AVERAGE DISCHARGE.--14 years, 267 ft^3/s (7.561 m^3/s), 26.66 in/yr (677 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,500 ft^3/s (552 m^3/s) Dec. 26, 1973, gage height, 17.89 ft (5.453 m); minimum, no flow for several days in 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 21	1400	3180	90.0	12.59	3.837	Apr. 13	1800	7690	218	14.96	4.560
Mar. 4	1100	*8980	254	*15.45	4.709						

Minimum daily discharge, 0.38 ft^3/s (0.01 m^3/s) Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	.38	2.2	748	246	550	202	180	230	11	40	37
2	8.0	.46	2.0	1730	210	471	388	160	156	8.9	41	409
3	8.5	.53	1.6	1560	208	610	833	150	234	7.8	33	299
4	5.5	.60	58	945	221	6800	1220	180	234	7.1	23	346
5	5.0	.67	123	598	194	3230	926	350	166	6.6	17	219
6	3.7	.73	61	410	186	1470	642	250	139	6.0	12	113
7	3.0	2.6	33	522	399	968	446	200	152	37	9.7	76
8	2.7	1.1	26	808	479	727	341	170	128	16	7.6	58
9	2.4	.56	313	816	386	551	386	150	96	17	6.5	44
10	2.2	.64	427	563	308	452	378	130	80	36	6.9	35
11	2.0	.77	216	387	268	551	277	120	75	29	10	24
12	1.8	.85	111	313	248	523	665	110	62	24	11	20
13	1.7	.91	82	280	226	409	5370	95	52	21	11	38
14	1.5	.92	68	248	204	346	3950	90	41	16	8.6	138
15	1.4	.96	57	201	193	293	1650	80	32	13	6.8	320
16	1.3	1.0	68	176	178	240	1050	72	29	9.8	5.3	150
17	1.2	1.8	108	166	157	211	727	62	26	7.6	5.7	110
18	1.1	2.6	95	171	348	195	520	58	22	6.4	4.3	88
19	1.0	2.7	82	168	504	179	370	54	19	5.7	3.6	76
20	.95	2.1	77	841	475	165	280	51	16	7.3	3.2	68
21	.89	1.1	147	2970	489	162	228	60	14	32	3.0	68
22	.87	1.3	214	2260	525	155	194	67	14	76	2.9	80
23	.88	1.8	155	1380	499	448	178	62	14	48	3.8	90
24	.71	2.1	149	1180	711	1150	164	122	21	29	60	80
25	.72	.84	246	1190	1330	839	189	107	46	52	68	70
26	.73	.85	210	882	1270	527	600	70	33	123	110	68
27	.74	.80	159	678	942	347	700	61	24	63	88	300
28	.72	.89	130	548	690	269	350	128	18	48	60	800
29	.63	1.2	111	408	---	225	250	148	14	35	93	2000
30	.53	2.0	128	324	---	194	200	114	12	35	57	1000
31	.45	---	341	291	---	173	---	261	---	59	42	---
TOTAL	68.82	35.76	4000.8	23762	12094	23430	23674	3912	2199	893.2	853.9	7224
MEAN	2.22	1.19	129	767	432	756	789	126	73.3	28.8	27.5	241
MAX	8.5	2.7	427	2970	1330	6800	5370	350	234	123	110	2000
MIN	.45	.38	1.6	166	157	155	164	51	12	5.7	2.9	20
CFSM	.02	.009	.95	5.64	3.18	5.56	5.80	.93	.54	.21	.20	1.77
IN.	.02	.01	1.09	6.50	3.31	6.41	6.48	1.07	.60	.24	.23	1.98

CAL YR 1978 TOTAL 55901.58 MEAN 153 MAX 1930 MIN .38 CFSM 1.13 IN 15.29
WTR YR 1979 TOTAL 102147.48 MEAN 280 MAX 6800 MIN .38 CFSM 2.06 IN 27.94

03576148 COTACO CREEK AT FLORETTE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1968, 1969, 1971-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama, and the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
NOV												
01...	0830	.39	295	7.4	13.0	4.0	120	--	39	5.6	4.2	7
DEC												
12...	0745	103	174	7.4	5.5	10.8	79	14	26	3.4	2.6	6
JAN												
16...	0945	1.0	152	7.4	4.5	11.8	68	9	23	2.5	2.2	6
MAR												
08...	0700	674	132	7.4	9.0	9.9	55	3	18	2.5	3.3	11
APR												
11...	0730	286	128	7.7	15.0	8.4	61	8	20	2.6	1.7	6
MAY												
22...	0948	67	185	7.7	20.0	6.0	92	18	31	3.4	3.7	8
JUN												
04...	1215	220	148	7.0	22.0	--	--	--	--	--	--	--
25...	1210	48	175	7.6	22.0	5.5	--	--	--	--	--	--
SEP												
04...	0920	358	112	7.2	21.0	6.1	59	15	19	2.8	2.1	7

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV											
01...	.2	--	--	--	--	--	5.4	6.5	.1	4.7	--
DEC											
12...	.1	2.5	79	0	65	5.0	13	3.4	.0	5.8	100
JAN											
16...	.1	1.4	72	0	59	4.6	5.1	4.4	.0	5.6	86
MAR											
08...	.2	1.1	64	0	52	4.1	4.6	2.4	.1	5.1	74
APR											
11...	.1	1.0	64	0	52	2.0	3.0	2.4	.0	3.6	69
MAY											
22...	.2	2.2	90	0	74	2.9	7.7	2.4	.1	4.8	102
JUN											
04...	--	--	76	0	62	12	6.1	--	--	--	--
25...	--	--	18	0	15	.7	--	--	--	--	--
SEP											
04...	.1	3.0	54	0	44	5.5	9.2	2.5	.1	5.0	73

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
NOV											
01...	--	--	.27	1.2	1	--	100	<1	--	ND	--
DEC											
12...	.14	27.8	.95	4.2	<1	--	<50	<1	--	ND	--
JAN											
16...	.12	.23	1.4	6.2	<1	--	<50	ND	--	ND	--
MAR											
08...	.10	135	1.3	5.8	ND	--	<100	<1	--	ND	--
APR											
11...	.09	53.3	.59	2.6	<1	--	120	ND	--	ND	--
MAY											
22...	.14	18.6	.52	2.3	0	--	110	<1	--	ND	--
JUN											
04...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
SEP											
04...	.10	70.6	.45	2.0	<1	0	90	<1	<10	1	<10

03576148 COTACO CREEK AT FLORETTE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)
NOV											
01...	--	4	--	--	--	210	--	3	--	--	--
DEC											
12...	--	1	--	--	--	210	--	<1	--	--	--
JAN											
16...	--	2	--	--	--	20	--	4	--	--	--
MAR											
08...	--	2	--	--	--	30	--	ND	--	--	--
APR											
11...	--	3	--	--	--	40	--	<1	--	--	--
MAY											
22...	--	16	--	--	--	50	--	2	--	--	--
JUN											
04...	--	--	--	2200	2000	200	--	--	--	180	130
25...	--	--	--	--	--	--	--	--	--	--	--
SEP											
04...	<10	3	<10	2600	2500	80	9900	2	10	280	180

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
NOV											
01...	510	--	.8	--	ND	--	150	40	--	--	--
DEC											
12...	48	--	.2	--	--	--	100	10	--	--	--
JAN											
16...	<5	--	.4	--	--	--	70	ND	--	--	--
MAR											
08...	ND	--	<.2	--	ND	--	20	10	--	--	--
APR											
11...	<5	--	.2	--	ND	--	80	10	--	--	--
MAY											
22...	42	--	.2	--	ND	--	110	50	--	--	--
JUN											
04...	50	--	--	--	--	--	--	--	--	87	52
25...	--	--	--	--	--	--	--	--	--	--	--
SEP											
04...	12	820	<.2	.00	ND	0	140	<5	20	--	--

03584500 ELK RIVER NEAR PROSPECT, TN

LOCATION.--Lat 35°01'39", long 86°56'52", Giles County, Hydrologic Unit 06030004, on right bank 50 ft (15 m) upstream from county road bridge, 1.1 mi (1.8 km) downstream from Richland Creek, 3.2 mi (5.1 km) east of Prospect, 5.4 mi (8.7 km) upstream from Ford Creek, 7.9 mi (12.7 km) upstream from Tennessee-Alabama State line, and at mile 41.5 (66.8 km).

DRAINAGE AREA.--1,784 mi^2 (4,621 km^2).

PERIOD OF RECORD.--July 1904 to February 1908, January 1919 to current year. Published as "near Elkmont, Ala." 1904-8, 1919-34. Record for both sites published January to March 1934.

REVISED RECORDS.--WSP 523: 1904-8, 1919-20. WSP 823: Drainage area. WSP 1436: 1920-22, 1923(M), 1924, 1927, 1929, 1931-32(M).

GAGE.--Water-stage recorder. Datum of gage is 563.29 ft (171.691 m) National Geodetic Vertical Datum of 1929. July 1, 1904, to Feb. 2, 1908, and Jan. 20, 1919, to Mar. 31, 1934, nonrecording gage 11.9 mi (19.1 km) downstream at datum 13.52 ft (4.121 m) lower.

REMARKS.--Records good. Flow regulated by Woods Reservoir (station 03579000) since May 1952, and Jims Ford Lake (station 03580740) since December 1970. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE.--63 years (1905-7, 1920-79), 3,090 ft^3/s (87.51 m^3/s), 23.52 in/yr (597 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117,000 ft^3/s (3,310 m^3/s) Mar. 17, 1973, gage height, 40.12 ft (12.229 m), from rating curve extended above 63,000 ft^3/s (1,780 m^3/s) on basis of slope-area measurement at gage height 38.17 ft (11.634 m) and contracted-opening measurement at gage height 38.96 ft (11.875 m); minimum, 78 ft^3/s (2.21 m^3/s) Sept. 29, 1961 (caused by highway construction upstream).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1902 reached a stage of 40.9 ft (12.47 m), discharge, 130,000 ft^3/s (3,680 m^3/s), and may have been equaled by a flood in March 1897, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34,100 ft^3/s (966 m^3/s), at 1600 hours Jan. 2, gage height, 29.14 ft (8.882 m); minimum, 302 ft^3/s (8.55 m^3/s) Nov. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	609	1270	1960	19700	3340	7660	2310	1610	4750	778	1920	3680
2	754	1410	1680	31300	3540	6850	8910	1870	3770	510	1650	3970
3	484	1260	1300	25400	3470	8280	15900	2430	9310	490	1820	2370
4	516	1220	3590	8790	2530	19900	14500	6530	7250	836	1950	1620
5	537	762	4800	6370	1650	20300	8620	7520	4050	893	1650	2120
6	523	347	3570	6380	2040	10300	6350	4260	4190	594	669	2940
7	490	731	2980	17500	3380	8370	5890	3810	4380	853	587	2960
8	484	1290	3410	22900	4710	8120	4100	3820	3700	939	1260	2860
9	484	1230	15700	14900	4620	7500	3000	3430	3070	602	1400	1740
10	473	1210	16200	7600	4330	7080	3710	2290	2730	496	1520	670
11	479	1170	7050	7260	3830	5990	4000	2060	5790	523	1520	803
12	530	885	4610	6570	2430	6230	10900	1900	3810	931	2190	1780
13	551	450	4390	6200	2550	4970	23900	1520	2900	647	1110	3710
14	639	778	4510	4200	2470	5200	24500	1110	2450	1020	662	13400
15	647	853	4270	3030	2380	4490	12100	1060	2220	1060	747	10900
16	587	962	3500	3020	2280	3930	8580	1180	2060	654	685	5930
17	537	1920	3110	3610	2100	3590	7240	1040	1820	537	669	2190
18	516	2570	2110	3260	1760	2300	6510	1000	1020	530	624	2260
19	609	1230	2210	2970	1540	1650	6040	1020	993	616	654	2510
20	787	795	3400	11300	1610	2310	5700	977	1640	1640	439	2220
21	537	885	4830	21600	4130	2550	5440	762	1830	6450	375	5900
22	490	1340	5320	21800	6410	2470	4430	1120	1980	2710	1260	10800
23	479	1560	4160	13800	5540	3230	3060	2570	1120	1380	985	10300
24	662	1430	3550	11200	5210	4970	2730	6060	916	946	778	3380
25	1350	908	2680	10200	16200	3660	3030	3680	770	1090	931	2140
26	819	778	1470	8300	19700	2810	2440	2450	723	2240	2190	2170
27	828	1140	1760	6560	12500	2930	2420	1790	893	2290	1480	2290
28	819	1890	2660	5650	8790	3190	2330	1520	853	1940	1580	9090
29	700	1490	2400	3420	---	2670	1590	1510	811	1630	1740	9240
30	423	1980	2780	3020	---	2520	1170	2100	795	731	2130	5720
31	647	---	9710	3160	---	2400	---	5010	---	1110	3390	---
TOTAL	18990	35744	135670	320970	135040	178420	211400	79009	82594	37666	40565	131663
MEAN	613	1191	4376	10350	4823	5755	7047	2549	2753	1215	1309	4389
MAX	1350	2570	16200	31300	19700	20300	24500	7520	9310	6450	3390	13400
MIN	423	347	1300	2970	1540	1650	1170	762	723	490	375	670
CFSM	.34	.67	2.45	5.80	2.70	3.23	3.95	1.43	1.54	.68	.73	2.46
IN.	.40	.75	2.83	6.69	2.82	3.72	4.41	1.65	1.72	.79	.85	2.75

CAL YR 1978 TOTAL 846442 MEAN 2319 MAX 32600 MIN 268 CFSM 1.30 IN 17.65
WTR YR 1979 TOTAL 1407731 MEAN 3857 MAX 31300 MIN 347 CFSM 2.16 IN 29.35

03586500 BIG NANCE CREEK AT COURTLAND, AL

LOCATION.--Lat 34°40'12", long 87°19'02", in SW¼ sec. 30, T. 4 S., R. 7 W., Lawrence County, Hydrologic Unit 06030005, near right bank on downstream side of bridge on State Highway 20, at Courtland, and at mile 12.9 (20.8 km).

DRAINAGE AREA.--166 mi^2 (430 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1935 to September 1940, March 1945 to current year.

REVISED RECORDS.--WSP 1033: 1939, 1940(M). WSP 1053: 1939(M). WSP 1306: 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 537.60 ft (163.860 m) National Geodetic Vertical Datum of 1929. July 25, 1935, to Sept. 30, 1940, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--39 years (water years 1935-40, 1945-79), 268 ft^3/s (7.590 m^3/s), 21.92 in/yr (557 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,200 ft^3/s (770 m^3/s) Mar. 16, 1973, gage height, 24.97 ft (7.611 m); minimum daily, 0.4 ft^3/s (0.011 m^3/s) Sept. 15-17, 1954, Oct. 3-6, 12-17, 20-22, 1955; minimum gage height observed, 1.18 ft (0.360 m) Oct. 25, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,800 ft^3/s (108 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 26	0600	5380	152	18.20	5.547	Apr. 13	2400	*5580	158	*18.91	5.764
Mar. 4	2200	4200	119	15.59	4.572	Sept. 15	0100	4100	116	15.32	4.670

Minimum daily discharge, 1.2 ft^3/s (0.034 m^3/s) Oct. 16-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.2	11	1460	162	503	131	103	207	19	19	181
2	2.3	3.2	11	2490	134	431	605	98	102	18	18	1050
3	1.8	3.6	8.5	1130	134	774	1400	103	242	17	33	649
4	1.8	3.5	50	286	165	3210	1080	255	218	15	23	197
5	1.4	3.8	51	212	154	2920	712	404	118	15	51	134
6	1.7	3.8	22	204	139	702	356	242	122	15	76	104
7	1.4	6.0	11	1060	496	415	248	162	110	14	37	87
8	1.6	7.1	12	1740	514	334	207	126	100	19	20	74
9	1.8	6.9	261	570	276	338	198	107	92	26	14	64
10	1.7	6.3	310	285	201	308	222	96	77	72	11	56
11	1.8	6.7	90	230	170	601	187	152	127	100	12	50
12	1.8	6.2	46	204	158	388	1000	414	102	46	11	46
13	7.1	5.6	29	202	153	292	4580	187	68	31	9.2	601
14	4.1	5.6	21	205	139	247	4970	138	59	27	9.7	3150
15	1.3	5.2	15	167	131	224	1620	110	49	22	8.2	3350
16	1.2	5.6	13	134	124	189	495	94	40	18	7.2	596
17	1.2	16	12	132	110	171	359	80	35	15	6.8	227
18	1.2	15	13	145	308	162	283	72	33	14	6.0	218
19	1.3	15	11	165	702	154	237	67	30	13	5.6	199
20	1.4	6.8	8.8	865	358	146	207	61	28	13	21	173
21	1.4	4.3	23	2350	397	164	185	59	29	29	111	980
22	1.4	4.0	69	2530	611	177	169	56	28	607	162	2330
23	1.4	3.7	44	751	389	351	197	62	27	258	164	1110
24	1.8	4.0	25	625	564	765	204	95	33	144	237	312
25	1.8	3.7	18	458	3230	306	191	85	55	79	682	221
26	2.3	3.5	14	296	4860	210	201	63	53	56	674	182
27	3.0	3.5	8.5	294	1740	173	169	56	34	45	188	164
28	3.2	3.5	5.5	308	492	156	142	55	27	52	684	212
29	3.2	3.7	3.8	222	---	145	122	68	23	40	603	207
30	3.2	6.0	7.2	182	---	132	111	69	22	29	152	156
31	3.2	---	531	177	---	123	---	173	---	23	99	---
TOTAL	66.8	175.0	1755.3	20079	17011	15211	20788	3912	2290	1891	4154.7	17080
MEAN	2.15	5.83	56.6	648	608	491	693	126	76.3	61.0	134	569
MAX	7.1	16	531	2530	4860	3210	4970	414	242	607	684	3350
MIN	1.2	3.2	3.8	132	110	123	111	55	22	13	5.6	46
CFSM	.01	.04	.34	3.90	3.66	2.96	4.18	.76	.46	.37	.81	3.43
IN.	.01	.04	.39	4.50	3.81	3.41	4.66	.88	.51	.42	.93	3.83

CAL YR 1978 TOTAL 55239.5 MEAN 151 MAX 4470 MIN 1.2 CFSM .91 IN 12.38
WTR YR 1979 TOTAL 104413.8 MEAN 286 MAX 4970 MIN 1.2 CFSM 1.72 IN 23.40

03586500 BIG NANCE CREEK AT COURTLAND, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965-69, 1971-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV										
02...	0930	1.5	352	7.5	14.5	9.0	170	4	63	2.6
DEC										
11...	1600	--	134	7.4	5.5	10.6	61	17	21	2.0
JAN										
16...	1200	120	240	7.6	5.5	10.8	110	19	40	2.3
MAR										
08...	0845	330	212	7.6	9.5	10.0	93	11	34	1.9
APR										
10...	1415	202	231	7.6	11.5	9.2	120	27	43	2.4
MAY										
22...	1200	53	270	7.5	19.0	6.9	150	24	55	2.2
JUN										
29...	1100	22	247	7.3	21.0	5.2	--	--	--	--
AUG										
27...	1525	165	130	6.5	23.0	8.3	57	13	20	1.7

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
02...	2.8	3	.1	1.5	200	0	164	10	.4	5.6
DEC										
11...	1.9	6	.1	2.6	53	0	43	3.4	15	3.3
JAN										
16...	3.0	6	.1	1.5	110	0	90	4.4	11	7.1
MAR										
08...	2.5	5	.1	1.0	100	0	82	4.0	9.6	4.6
APR										
10...	2.8	5	.1	1.0	110	0	90	4.4	--	4.8
MAY										
22...	3.8	5	.1	1.4	150	0	123	7.6	2.2	5.2
JUN										
29...	--	--	--	--	120	0	98	9.6	--	--
AUG										
27...	1.7	6	.1	2.6	54	0	44	27	8.6	2.5

03586500 BIG NANCE CREEK AT COURTLAND, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
NOV										
02...	.1	6.2	185	.25	.75	.88	3.9	<1	<50	<1
DEC										
11...	.0	5.8	82	.11	--	.86	3.8	1	<50	<1
JAN										
16...	.0	7.0	136	.18	44.1	2.3	10	1	100	<1
MAR										
08...	.1	5.7	115	.16	102	1.5	6.7	<1	<100	<1
APR										
10...	.0	5.2	--	--	--	1.1	4.8	<1	70	ND
MAY										
22...	.0	7.0	159	.22	22.8	1.9	8.2	1	180	<1
JUN										
29...	--	--	--	--	--	--	--	--	--	--
AUG										
27...	.1	5.5	71	.10	31.6	.38	1.7	1	100	1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
NOV									
02...	ND	4	20	1	62	.4	ND	110	<5
DEC									
11...	ND	9	590	<1	37	<.2	--	70	10
JAN									
16...	ND	1	220	2	<5	.4	--	80	<5
MAR									
08...	ND	4	40	2	0	<.2	ND	60	20
APR									
10...	ND	1	70	ND	<5	.8	ND	100	10
MAY									
22...	ND	6	40	1	110	.2	ND	110	10
JUN									
29...	--	--	--	--	--	--	--	--	--
AUG									
27...	1	1	100	3	10	<.2	ND	110	10

03588500 SHOAL CREEK AT IRON CITY, TN

LOCATION.--Lat 35°01'27", long 87°34'44", Lawrence County, Hydrologic Unit 06030005, near center of span on downstream side of bridge on county road, 400 ft (122 m) downstream from Holly Creek, 1,350 ft (411 m) upstream from Louisville & Nashville Railroad bridge, 1,350 ft (411 m) northeast of Iron City post office, and at mile 22.3 (35.9 km).
DRAINAGE AREA.--348 mi^2 (901 km^2).
PERIOD OF RECORD.--July 1925 to current year.
REVISED RECORDS.--WSP 823: Drainage area. WSP 1113: 1927(M). WSP 1436: 1926(M), 1927-29, 1930(M), 1932, 1933(M).
GAGE.--Water-stage recorder. Datum of gage is 534.22 ft (162.830 m) National Geodetic Vertical Datum of 1929. Prior to Feb. 25, 1931, nonrecording gage at railroad bridge, 1,350 ft (411 m) downstream at datum 0.85 ft (0.259 m) lower. Feb. 25, 1931, to Sept. 30, 1933, nonrecording gage at site 825 ft (251 m) downstream and Oct. 1, 1933, to Sept. 30, 1957, water-stage recorder at site 750 ft (229 m) downstream at datum 0.69 ft (0.210 m) higher.
REMARKS.--Records good. Prior to January 1951, diurnal fluctuation at low flow caused by powerplant near Lawrenceburg.
AVERAGE DISCHARGE.--54 years, 649 ft^3/s (18.38 m^3/s), 25.33 in/yr (643 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 132,000 ft^3/s (3,740 m^3/s) Mar. 21, 1955, gage height, 27.25 ft (8.306 m), site and datum then in use, present site and datum, 28.4 ft (8.656 m), from rating curve extended above 50,000 ft^3/s (1,416 m^3/s) on basis of slope-area measurement made 1,500 ft (457 m) downstream; minimum, 38 ft^3/s (1.08 m^3/s) Aug. 31, 1943.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1902 reached a stage about 3 ft (0.914 m) higher than that of Mar. 21, 1955, from information by local residents.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,500 ft^3/s (184 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 9	1130	10500	297	13.94	4.249	Apr. 12	1715	15200	430	15.98	4.871
Jan. 1	1930	24600	697	18.79	5.727	May 4	1500	7300	207	11.69	3.563
Jan. 7	2000	11500	326	14.47	4.410	Sept. 14	0700	*26100	739	19.16	5.840
Jan. 21	1445	7190	204	11.59	3.533	Sept. 21	2400	6800	193	11.24	3.426
Apr. 2	1945	14000	396	15.54	4.737						

Minimum discharge, 130 ft^3/s (3.68 m^3/s) Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	225	149	286	15000	604	1050	1040	495	488	299	229	312
2	198	149	261	7260	558	854	7280	484	670	293	275	607
3	149	148	259	2200	565	1370	5740	1010	2210	302	266	393
4	160	149	1390	1470	548	3900	3430	6200	1160	284	266	299
5	149	150	917	1120	509	2300	2500	3150	782	275	481	257
6	136	148	608	991	488	1610	1770	1880	661	269	296	232
7	132	172	524	6940	675	1280	1380	1400	607	266	248	211
8	131	204	1160	4870	723	1070	1150	1100	541	287	226	198
9	131	173	7430	2140	714	876	1060	893	495	386	213	188
10	133	161	2110	1480	657	848	887	769	467	327	251	183
11	134	159	1200	1120	629	848	778	679	457	299	242	178
12	133	157	843	924	614	728	8370	644	414	608	248	170
13	392	158	675	805	588	683	6760	640	389	544	211	2060
14	555	159	578	730	559	657	2780	581	372	425	196	15000
15	256	163	509	616	541	599	1830	537	358	348	191	2010
16	192	385	497	562	512	555	1410	502	348	317	186	1150
17	172	664	475	548	470	530	1150	474	342	302	178	805
18	163	642	420	552	488	516	967	460	330	272	175	683
19	157	349	397	559	453	505	843	453	320	260	175	629
20	154	267	390	2960	439	541	759	446	314	281	173	537
21	152	233	702	5790	859	512	705	436	936	383	181	3200
22	147	220	717	3000	1240	495	675	495	830	314	186	3420
23	145	323	624	1930	1690	1430	701	764	548	272	178	1540
24	142	400	571	2140	1660	2060	640	1240	484	290	226	1060
25	148	303	518	1700	2470	1410	637	679	446	320	269	801
26	150	264	463	1370	2260	1050	614	566	397	335	705	661
27	160	351	415	1190	1660	854	599	534	358	312	581	585
28	155	334	376	1000	1300	750	559	534	334	287	348	559
29	150	294	354	825	---	670	530	491	324	278	372	498
30	150	323	389	730	---	618	512	505	314	263	293	439
31	147	---	1300	672	---	805	---	548	---	240	266	---
TOTAL	5498	7751	27358	73194	24473	31974	58056	29589	16696	9938	8331	38865
MEAN	177	258	883	2361	874	1031	1935	954	557	321	269	1296
MAX	555	664	7430	15000	2470	3900	8370	6200	2210	608	705	15000
MIN	131	148	259	548	439	495	512	436	314	240	173	170
CFSM	.51	.74	2.54	6.78	2.51	2.96	5.56	2.74	1.60	.92	.77	3.72
IN.	.59	.83	2.92	7.82	2.62	3.42	6.21	3.16	1.78	1.06	.89	4.15

CAL YR 1978 TOTAL 213197 MEAN 584 MAX 9980 MIN 100 CFSM 1.68 IN 22.79
WTR YR 1979 TOTAL 331723 MEAN 909 MAX 15000 MIN 131 CFSM 2.61 IN 35.46

TENNESSEE RIVER MAIN STEM

03589500 TENNESSEE RIVER AT FLORENCE, AL

LOCATION.--Lat 34°47'13", long 87°40'12", in SW¼ sec. 14, T. 3 S., R. 11 W., Lauderdale County, Hydrologic Unit 06030005, on right bank at lower end of Patton Island, 137 ft (41.8 m) upstream from Southern Railway bridge, 700 ft (213 m) upstream from O'Neal Bridge on U.S. Highway 72, 1.1 mi (1.8 km) south of Florence Post Office, 1.7 mi (2.7 km) upstream from Cypress Creek, 2.7 mi (4.3 km) downstream from Wilson Dam, and at mile 256.7 (413.0 km).

DRAINAGE AREA.--30,810 mi^2, approximately, (79,798 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1871 to September 1894 (gage heights only), October 1894 to current year.

REVISED RECORD.--WSP 473: 1897(M). WSP 1306: 1914(M), 1936 (monthly runoff). WSP 1436: 1897, 1899, 1916.

GAGE.--Water-stage recorder. Datum of gage is 401.12 ft (122.261 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 1, 1926, several National Weather Service staff gages at or near Southern Railway bridge 137 ft (41.8 m) downstream at same datum. Apr. 1, 1926, to Mar. 11, 1958, water-stage recorder on left bank at lower end of old lock and dam, 1,400 ft (427 m) upstream at same datum. Since Oct. 1, 1938, auxiliary water-stage recorder 15.2 mi (24.5 km) downstream.

REMARKS.--Water-discharge records good except those below 25,000 ft^3/s (708 m^3/s), which are fair. Slight regulation since 1924 by Wilson Lake and increasing regulation since 1936 as other reservoirs have been built above station. Flow now almost completely regulated.

AVERAGE DISCHARGE.--85 years, 51,870 ft^3/s (1469 m^3/s), 22.82 in/yr (581 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 530,000 ft^3/s (1,500 m^3/s) Mar. 17, 1973 (gage height, 30.03 ft (9.153 m), maximum gage height, 32.5 ft (9.91 m) Mar. 19, 1897; minimum daily, 105 ft^3/s (2.97 m^3/s) Sept. 7, 1969 (computed on basis of Wilson Dam records), minimum gage height, -0.30 ft (-0.914 m) Oct. 8, 1925, caused by filling of Wilson Lake.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1867 reached a stage of 31.1 ft (9.48 m), from National Weather Service records, discharge, 421,000 ft^3/s (1,190 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 237,000 ft^3/s (6710 m^3/s) Mar. 6, maximum gage height, 20.21 ft (6.157 m) Mar. 7; minimum daily, 11,200 ft^3/s (317 m^3/s) Nov. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15000	26500	34800	117000	97600	156000	56000	51600	109000	33700	63400	67800
2	25600	11200	25300	136000	89800	155000	69800	50900	122000	38200	60100	64400
3	31700	18900	27900	124000	73600	163000	77100	51700	121000	40800	62500	73300
4	23200	15300	47200	121000	70700	189000	70000	89800	104000	36000	64300	57100
5	20400	14100	52800	121000	63400	218000	63300	71000	75800	35400	61300	56200
6	26900	14400	48600	121000	52100	233000	50400	50800	68800	37400	57000	56900
7	26100	13800	46800	135000	58800	230000	50100	43600	71900	41600	52000	55000
8	16700	15100	45700	135000	71300	222000	45400	47000	68300	43500	45800	49300
9	25900	15100	77400	128000	69500	206000	50200	46200	59700	38000	45800	44400
10	25800	14600	87900	129000	59300	191000	53900	49000	53100	38700	44400	49300
11	21000	14000	71700	125000	62000	175000	60500	49700	59200	44000	46200	51200
12	19000	13400	64800	122000	62500	155000	110000	41600	48600	57400	47900	50700
13	17600	17000	63600	118000	54200	139000	159000	42500	48500	41200	51300	72700
14	19500	17000	49500	101000	48900	131000	197000	44300	54700	41900	49600	83200
15	18200	14900	41500	93300	53700	111000	182000	44800	44200	43000	45900	66700
16	27500	15200	44400	72900	54400	106000	140000	42100	43600	51600	53400	60900
17	30400	25800	43900	71100	44200	96700	113000	44400	37300	54500	54700	65300
18	29400	25800	47800	62900	43900	76300	93400	47900	39800	50000	44200	62500
19	34000	24900	49100	64600	54300	67400	73200	39600	40900	51600	40200	48800
20	18700	31200	50100	96900	58100	58900	60500	37200	37500	50200	44600	39100
21	18400	32200	52100	142000	47600	66500	58100	36200	35200	56400	51600	53100
22	19600	37900	62200	154000	62200	67000	53900	43000	38200	87200	49400	68600
23	27000	28700	55500	155000	77500	69700	51600	49000	44800	84800	47800	53500
24	25200	19100	52400	158000	86000	72300	48200	65800	44100	89500	47200	53600
25	27800	31600	53100	159000	102000	55500	44400	82500	35900	93900	47100	51900
26	26000	33500	48900	158000	139000	65800	54300	73100	42100	94100	53100	60300
27	15600	35200	53600	151000	153000	65500	59800	64200	37600	95900	58500	50300
28	26300	32100	51200	131000	155000	63400	45100	50300	39600	91200	60700	71000
29	27200	32200	47100	113000	---	69700	43000	51900	42500	87000	57300	86500
30	19000	33600	43500	111000	---	67100	46700	50000	39300	80800	60300	124000
31	17200	---	64600	97700	---	79200	---	75500	---	77800	64100	---
TOTAL	721900	674300	1605000	3724400	2064600	3821000	2279900	1627200	1707200	1807300	1631700	1847600
MEAN	23290	22480	51770	120100	73740	123300	76000	52490	56910	58300	52640	61590
MAX	34000	37900	87900	159000	155000	233000	197000	89800	122000	95900	64300	124000
MIN	15000	11200	25300	62900	43900	55500	43000	36200	35200	33700	40200	39100
CFSM	.76	.73	1.68	3.90	2.39	4.00	2.47	1.70	1.85	1.89	1.71	2.00
IN.	.87	.81	1.94	4.50	2.49	4.61	2.75	1.96	2.06	2.18	1.97	2.23

CAL YR 1978 TOTAL 17070800 MEAN 46770 MAX 174000 MIN 11200 CFSM 1.52 IN 20.61
WTR YR 1979 TOTAL 23512100 MEAN 64420 MAX 233000 MIN 11200 CFSM 2.09 IN 28.39

03589500 TENNESSEE RIVER AT FLORENCE, AL--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Miscellaneous samples of chemical data published for water years 1965 and 1968.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV										
06...	1635	25700	--	7.3	19.0	9.2	80	8	23	5.4
MAR										
07...	1600	230000	179	7.8	10.0	11.8	68	2	21	3.7

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
06...	8.9	19	.4	1.5	88	0	72	7.1	15	11
MAR										
07...	7.6	19	.4	1.3	80	0	66	2.0	13	4.9

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)
NOV										
06...	.1	5.6	117	.16	8120	.66	2.9	1	<50	<1
MAR										
07...	.1	4.7	101	.14	62700	1.1	5.0	<1	<100	<1

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV									
06...	ND	3	30	1	14	.8	ND	90	130
MAR									
07...	ND	4	40	3	ND	<.2	ND	60	20

03591800 BEAR CREEK NEAR HACKLEBURG, AL

LOCATION.--Lat 34°17'01", long 87°46'26", in SW¼ sec. 11, T. 9 S., R. 12 W., Marion County, Hydrologic Unit 06030006, on right bank at downstream side of bridge on Alabama Highway 172, 2 mi (3.2 km) upstream from Bluff Creek, 3.5 mi (5.6 km) east of Hackleburg, and at mile 104.8 (168.6 km).

DRAINAGE AREA.--143 mi^2 (370 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 646.50 ft (197.053 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--23 years, 277 ft^3/s (7.845 m^3/s), 26.31 in/yr (668 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft^3/s (688 m^3/s) Mar. 16, 1973, gage height, 39.00 ft (11.887 m); minimum, 6.1 ft^3/s (0.17 m^3/s) Sept. 18, 19, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 1	1600	3420	96.9	12.41	3.783	Mar. 3	2145	5510	156	17.03	5.191
Feb. 25	0600	4340	123	14.60	4.450	Apr. 13	0245	*6660	189	*19.02	5.797

Minimum daily discharge, 6.5 ft^3/s (0.18 m^3/s) July 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	12	17	2900	246	565	163	178	176	7.5	75	112
2	15	12	15	1800	225	471	384	168	393	7.0	78	196
3	14	12	17	860	220	2100	269	529	360	7.5	69	140
4	12	12	122	571	212	3560	287	645	306	7.0	60	117
5	12	12	45	452	196	1510	303	556	140	6.5	51	100
6	12	12	26	387	196	886	312	459	125	7.5	44	85
7	11	23	23	1220	274	645	298	645	82	17	34	75
8	11	20	39	1210	272	535	293	1040	39	28	30	61
9	11	13	301	727	261	446	303	587	27	135	64	51
10	12	13	199	544	246	443	280	125	31	64	60	42
11	12	13	165	434	233	425	259	72	63	29	60	36
12	12	12	135	366	225	834	2180	70	140	140	68	30
13	57	12	115	325	217	1030	5250	70	30	82	48	860
14	28	12	100	290	207	954	2080	68	19	69	39	792
15	15	13	88	246	196	938	1070	68	17	60	31	547
16	13	14	92	220	186	931	687	68	17	52	27	395
17	12	37	90	222	173	922	538	68	16	45	28	309
18	12	33	81	235	251	915	437	60	15	37	21	261
19	12	15	76	267	264	905	366	54	15	30	16	225
20	12	14	75	1350	261	611	306	54	14	37	16	196
21	12	13	135	2360	333	243	261	54	15	733	22	1520
22	12	13	117	1340	363	199	238	54	17	632	37	1460
23	11	17	108	853	376	330	295	61	66	428	33	721
24	12	17	110	811	617	215	259	87	132	314	122	504
25	12	15	100	629	3490	157	248	79	18	254	168	390
26	12	13	90	526	1910	110	233	70	13	212	189	320
27	12	16	82	468	912	87	230	69	10	191	142	274
28	12	15	76	395	645	78	220	85	8.0	152	120	246
29	12	20	72	341	---	70	207	88	8.0	130	102	212
30	12	29	102	303	---	64	191	90	8.0	108	87	186
31	12	---	638	274	---	61	---	104	---	90	78	---
TOTAL	459	484	3451	22926	13207	21240	18447	6425	2320.0	4112.0	2019	10463
MEAN	14.8	16.1	111	740	472	685	615	207	77.3	133	65.1	349
MAX	57	37	638	2900	3490	3560	5250	1040	393	733	189	1520
MIN	11	12	15	220	173	61	163	54	8.0	6.5	16	30
CFSM	.10	.11	.78	5.18	3.30	4.79	4.30	1.45	.54	.93	.46	2.44
IN.	.12	.13	.90	5.96	3.44	5.53	4.80	1.67	.60	1.07	.53	2.72

CAL YR 1978 TOTAL 45935.8 MEAN 126 MAX 2990 MIN 8.5 CFSM .88 IN 11.95
WTR YR 1979 TOTAL 105553.0 MEAN 289 MAX 5250 MIN 6.5 CFSM 2.02 IN 27.46

03591800 BEAR CREEK NEAR HACKLEBURG, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: December 1965 to September 1967, October 1976 to current year.
WATER TEMPERATURES: March 1965 to March 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 31.0°C on several days in 1966 and 1969; minimum, 0.0°C on several days in 1966, 1969, and 1970.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1968, 1969, 1972-74.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and analyzed by the Geological Survey of Alabama, and the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
NOV												
06...	1205	12	75	7.3	13.0	8.4	27	1	7.1	2.3	3.0	18
DEC												
11...	1045	107	68	7.0	7.5	11.8	24	5	5.9	2.2	1.5	11
JAN												
19...	1300	293	62	7.1	6.5	12.4	26	8	6.1	2.5	1.8	12
MAR												
07...	1120	645	45	7.0	8.0	12.4	17	7	3.9	1.7	1.6	16
APR												
10...	0930	296	41	7.8	12.5	--	17	9	4.3	1.5	1.3	13
MAY												
22...	1730	55	51	7.8	25.0	9.4	18	5	4.6	1.5	3.0	25
JUN												
04...	1130	276	39	7.7	16.0	--	--	--	--	--	--	--
26...	1210	14	42	74.0	18.0	9.2	--	--	--	--	--	--
AUG												
27...	1115	146	63	6.9	23.0	8.1	24	10	5.6	2.3	1.9	14
28...	0830	2.8	67	7.1	25.0	--	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV											
06...	.3	2.2	32	0	26	2.6	1.0	3.7	.1	3.9	47
DEC											
11...	.1	1.9	23	0	19	3.7	8.8	1.9	.0	3.8	40
JAN											
19...	.2	2.0	22	0	18	2.8	7.0	2.7	.0	3.5	40
MAR											
07...	.2	1.4	12	0	10	1.9	6.4	2.4	.1	4.1	32
APR											
10...	.1	1.4	10	0	8	.3	6.0	1.8	.0	4.1	29
MAY											
22...	.3	1.9	16	0	13	.4	4.0	1.9	.0	3.0	29
JUN											
04...	--	--	8	0	7	.3	6.2	--	--	--	--
26...	--	--	12	0	10	.0	--	--	--	--	--
AUG											
27...	.2	1.9	16	0	13	3.2	7.5	4.2	.1	2.8	35
28...	--	--	18	0	15	2.3	8.7	--	--	--	--

03591800 BEAR CREEK NEAR HACKLEBURG, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
NOV											
06...	.06	1.54	1.6	7.3	<1	--	<50	<1	--	ND	--
DEC											
11...	.05	11.6	.25	1.1	<1	--	<50	<1	--	ND	--
JAN											
19...	.05	31.6	.61	2.7	<1	--	<50	<1	--	ND	--
MAR											
07...	.04	55.7	.93	4.1	<1	--	<100	1	--	ND	--
APR											
10...	.04	23.2	.84	3.7	<1	--	50	<1	--	ND	--
MAY											
22...	.04	4.37	.18	.80	ND	--	20	ND	--	ND	--
JUN											
04...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
27...	.05	13.8	.19	.84	1	--	80	1	--	1	--
28...	--	--	--	--	--	0	--	--	<10	--	10

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)
NOV											
06...	--	2	--	--	--	410	--	ND	--	--	--
DEC											
11...	--	1	--	--	--	210	--	<1	--	--	--
JAN											
19...	--	2	--	--	--	730	--	1	--	--	--
MAR											
07...	--	3	--	--	--	40	--	1	--	--	--
APR											
10...	--	4	--	--	--	50	--	1	--	--	--
MAY											
22...	--	3	--	--	--	220	--	ND	--	--	--
JUN											
04...	--	--	--	2000	2000	50	--	--	--	540	40
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
27...	--	2	--	--	--	90	--	3	--	--	--
28...	<10	--	<10	720	560	160	6300	--	<10	130	90

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
NOV											
06...	57	--	.8	--	ND	--	50	10	--	--	--
DEC											
11...	870	--	.2	--	--	--	50	<5	--	--	--
JAN											
19...	29	--	.6	--	--	--	40	<5	--	--	--
MAR											
07...	12	--	<.2	--	ND	--	ND	10	--	--	--
APR											
10...	19	--	.5	--	ND	--	30	10	--	--	--
MAY											
22...	14	--	.2	--	ND	--	30	20	--	--	--
JUN											
04...	500	--	--	--	--	--	--	--	--	101	75
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
27...	10	--	.3	--	ND	--	90	20	--	--	--
28...	40	480	--	.00	--	0	--	--	20	36	.27

03592000 BEAR CREEK NEAR RED BAY, AL

LOCATION.--Lat 34°26'38", long 88°06'56", in NE¼ sec. 21, T. 7 S., R. 15 W., Franklin County, Hydrologic Unit 06030006, on left bank 185 ft (56 m) upstream from bridge on State Highway 24, 108 ft (73 m) shoreward from top of bank, 1.8 mi (2.9 km) east of Red Bay, and at mile 61.9 (99.6 km).

DRAINAGE AREA.--263 mi^2 (681 km^2).

PERIOD OF RECORD.--August 1913 to May 1920, July 1958 to September 1967. October 1967 to September 1968 (annual maximum only). March 1969 to current year. Prior to October 1918 monthly discharge only, published in WSP 1306.

REVISED RECORDS.--WSP 1306: 1920(M). WSP 1726: 1920 (corrected monthly means).

GAGE.--Water-stage recorder. Datum of gage is 506.42 ft (154.357 m) above National Geodetic Vertical Datum, levels by Tennessee Valley Authority. August 1913 to May 1920, nonrecording gage at site 0.7 mi (1.1 km) upstream at various datums. July 1, 1958, to Oct. 27, 1959, nonrecording gage, Oct. 28, 1959, to Sept. 30, 1967, water-stage recorder at site 185 ft (56 m) downstream at present datum.

REMARKS.--Records good. Flow partially regulated by Bear Creek Dam 12.5 mi (20.1 km) upstream since Mar. 14, 1967. Records of specific conductance and water temperatures for the water year 1979 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--25 years (water years 1913-19, 1958-67, 1970-79), 492 ft^3/s (13.93 m^3/s), 25.40 in/yr (645 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,800 ft^3/s (986 m^3/s) Mar. 17, 1973, gage height, 17.62 ft (5.371 m); minimum daily discharge, 10 ft^3/s (0.28 m^3/s) Aug. 15-17, Sept. 17, 1918.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 2,900 ft^3/s (82.1 m^3/s) Jan. 7, gage height 12.59 ft (4.142 m), no peak above base of 4,000 ft^3/s (113 m^3/s); minimum daily discharge, 19 ft^3/s (0.54 m^3/s) Aug. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	57	291	1150	916	1800	307	221	278	38	166	117
2	34	30	398	627	630	1670	575	203	455	35	110	120
3	33	103	322	2020	436	1390	614	247	477	31	96	204
4	33	145	318	2020	413	1090	837	360	474	31	51	356
5	32	143	432	1880	309	1790	893	652	472	31	46	210
6	32	143	325	1810	314	2050	867	1350	362	32	53	188
7	32	145	256	2170	371	2010	850	1650	109	33	87	128
8	32	159	138	1110	556	1940	842	1590	152	34	85	114
9	32	210	440	2030	836	1900	921	1260	89	44	63	114
10	32	207	662	1960	549	1850	1050	638	90	471	51	67
11	32	205	430	1810	444	1790	1050	375	88	939	99	59
12	32	201	331	1710	424	1740	795	385	86	254	85	58
13	35	198	68	1570	480	1700	603	373	84	379	74	383
14	38	173	28	1480	318	1670	1240	362	84	221	214	526
15	34	76	22	1150	331	1630	1290	331	83	197	113	1240
16	65	83	41	477	354	1600	1340	243	83	121	56	1210
17	196	95	61	422	322	1570	1840	184	82	28	44	1230
18	81	91	59	420	354	1540	2050	156	81	44	25	960
19	78	131	59	422	345	1520	912	93	80	46	19	389
20	78	131	61	900	436	1490	2020	92	80	56	25	460
21	79	131	96	1340	723	1480	1980	92	81	127	26	386
22	79	131	137	2010	879	959	1910	94	46	1080	26	1060
23	92	132	135	1810	760	712	929	110	41	1040	63	1570
24	148	129	149	1500	774	615	714	222	127	434	205	1530
25	149	128	191	1890	1110	578	1130	319	267	462	69	1460
26	149	132	190	1900	1630	485	1380	106	77	153	257	1430
27	146	168	187	1810	1900	313	1340	102	71	570	411	956
28	143	135	167	1670	1850	170	1300	144	68	261	348	491
29	148	159	172	1580	---	292	1250	284	41	194	181	303
30	148	245	135	1420	---	307	821	294	40	188	118	300
31	145	---	273	1050	---	304	---	216	---	184	116	---
TOTAL	2428	4216	6594	45118	18764	39955	33650	12748	4648	7758	3382	17619
MEAN	78.3	141	213	1455	670	1289	1122	411	155	250	109	587
MAX	196	245	662	2170	1900	2050	2050	1650	477	1080	411	1570
MIN	32	30	22	420	309	170	307	92	40	28	19	58
CFSM	.30	.54	.81	5.53	2.55	4.90	4.27	1.56	.59	.95	.41	2.23
IN.	.34	.60	.93	6.38	2.65	5.65	4.76	1.80	.66	1.10	.48	2.49

CAL YR 1978 TOTAL 109722 MEAN 301 MAX 1960 MIN 22 CFSM 1.14 IN 15.52
WTR YR 1979 TOTAL 196880 MEAN 539 MAX 2170 MIN 19 CFSM 2.05 IN 27.85

03592200 CEDAR CREEK NEAR PLEASANT SITE, AL

LOCATION.--Lat 34°32'56", long 88°01'09", in SW¼ sec. 9, T. 6 S., R. 14 W., Franklin County, Hydrologic Unit 06030006, on left bank downstream side of pier of highway bridge, 2.6 mi (4.2 km) east of Pleasant Site, 4.3 mi (6.9 km) upstream from Little Bear Creek, and at mile 19.1 (30.7 km).

DRAINAGE AREA.--189 mi^2 (490 km^2).

PERIOD OF RECORD.--October 1976 to current year.
WATER TEMPERATURES: January 1963 to April 1972.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 32.0°C on several days in 1966 and 1969; minimum, freezing point on several days during 1963-71.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1968, 1971-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV										
06...	1315	13	310	8.1	15.0	9.3	140	4	52	3.3
DEC										
11...	1345	--	--	7.9	7.5	11.2	130	24	47	3.3
JAN										
16...	1400	741	282	7.9	4.0	12.8	130	16	48	2.6
MAR										
07...	1245	57	206	7.8	9.5	12.0	96	14	34	2.7
APR										
10...	1050	48	205	8.0	12.0	10.9	120	26	42	2.7
MAY										
22...	1530	184	--	8.0	22.5	8.5	110	0	38	2.5
JUN										
26...	1600	77	207	7.9	26.0	7.4	--	--	--	--
AUG										
27...	1305	76	250	8.1	25.5	8.0	110	3	39	3.0

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
06...	4.3	6	.2	2.0	170	0	139	2.2	1.8	7.3
DEC										
11...	6.1	9	.2	3.1	130	0	107	2.6	15	18
JAN										
16...	4.4	7	.2	1.9	140	0	115	2.8	8.2	10
MAR										
07...	2.6	5	.1	1.0	100	0	82	2.5	10	4.5
APR										
10...	3.1	5	.1	2.0	110	0	90	1.8	9.6	--
MAY										
22...	4.4	8	.2	2.2	128	0	105	2.0	7.2	5.2
JUN										
26...	--	--	--	--	120	0	98	2.4	--	--
AUG										
27...	3.5	6	.1	2.1	130	0	107	1.7	3.7	6.5

03592200 CEDAR CREEK NEAR PLEASANT SITE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
NOV										
06...	.1	4.3	160	.22	5.96	.11	.50	<1	100	<1
DEC										
11...	.0	6.0	167	.23	--	.79	3.5	<1	<50	<1
JAN										
16...	.0	7.0	157	.21	314	1.2	5.4	ND	100	<1
MAR										
07...	.1	5.7	112	.15	17.2	.36	1.6	ND	<100	ND
APR										
10...	.0	5.2	--	--	--	.32	1.4	ND	160	<1
MAY										
22...	.1	4.6	128	.17	63.6	.06	.27	<0	130	<1
JUN										
26...	--	--	--	--	--	--	--	--	--	--
AUG										
27...	.1	2.2	125	.17	25.6	ND	ND	<1	190	<1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
NOV									
06...	ND	5	20	<1	<5	.6	ND	150	ND
DEC									
11...	ND	2	730	<1	54	<.2	--	120	10
JAN									
16...	ND	1	10	2	<5	.4	--	110	ND
MAR									
07...	ND	5	30	1	9	.3	ND	90	10
APR									
10...	ND	3	40	2	10	.5	ND	120	ND
MAY									
22...	ND	10	40	1	130	<.2	ND	130	<5
JUN									
26...	--	--	--	--	--	--	--	--	--
AUG									
27...	ND	1	10	1	<5	<.2	ND	180	60

03592500 BEAR CREEK AT BISHOP, AL

LOCATION.--Lat 34°39'21", long 88°07'21", in SE¼ sec. 5, T. 5 S., R. 15 W., Colbert County, Hydrologic Unit 06030006, on left bank 250 ft (76 m) upstream from highway bridge, 0.5 mi (0.8 km) downstream from Cedar Creek, 0.8 mi (1.3 km) southwest of Bishop, and at mile 27.3 (43.9 km).

DRAINAGE AREA.--667 mi^2 (1,728 km^2).

PERIOD OF RECORD.--August 1926 to June 1928, February 1929 to March 1932, June 1933 to Sept. 30. 1979. Discontinued.

REVISED RECORDS.--WSP 698: 1929. WSP 823: Drainage area. WSP 853: 1927, 1928(M), 1929, 1930(M), 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 419.91 ft (127.989 m) above National Geodetic Vertical Datum. Nonrecording gage prior to June 23, 1928, and Feb. 10, 1929, to Mar. 31, 1932, at site 35 ft (11 m) downstream, and June 7, 1933, to May 28, 1934, at bridge 20 ft (6 m) downstream at datum 5.00 ft (1.524 m) lower.

REMARKS.--Water-discharge record good. Flow partially regulated by Bear Creek Reservoir, 47.3 mi (76.1 km) upstream beginning Mar. 14, 1969.

AVERAGE DISCHARGE.--49 years (water years 1926-27, 1929-31, 1933-79), 1128 ft^3/s (31.94 m^3/s), 22.97 in/yr (583 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,800 ft^3/s (1,720 m^3/s) Mar. 17, 1973, gage height, 24.12 ft (7.352 m), in gage well; 25.2 ft (7.67 m) from floodmarks 20 ft (6.1 m) upstream from gage; minimum discharge, 9.3 ft^3/s (0.26 m^3/s) Sept. 15-17, 1954; minimum gage height, -0.15 ft (-0.046 m) Sept. 1, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,100 ft^3/s (286 m^3/s) Jan. 1, gage height, 15.39 ft (4.691 m), no other peak above base of 7,500 ft^3/s (212 m^3/s); minimum daily discharge, 67 ft^3/s (1.90 m^3/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	393	375	8080	1190	2470	588	784	455	155	450	400
2	152	351	378	5780	1110	2310	2230	499	497	160	400	450
3	156	301	451	4070	964	3040	1910	530	681	160	300	500
4	123	314	1070	3660	890	3480	2030	1430	707	140	250	800
5	73	390	768	3330	764	2400	1720	1500	678	130	180	700
6	71	394	707	2520	718	3220	1320	1850	664	110	170	600
7	68	705	595	5690	1450	3170	1320	2230	588	110	200	450
8	67	737	768	3980	1390	2960	1290	2170	364	120	250	350
9	67	743	2130	4320	1440	2230	1360	2020	365	140	460	250
10	74	788	1790	4270	1230	2290	1450	1430	314	300	270	200
11	73	782	1190	3110	1000	2210	1460	1010	327	2000	307	168
12	70	777	741	2060	916	2050	2770	860	296	1000	524	155
13	89	722	499	2290	674	1970	3720	810	273	1100	326	1580
14	95	757	302	2070	616	1920	2400	780	257	900	293	3180
15	114	460	243	1850	524	1850	2820	737	245	600	375	1870
16	99	466	237	1330	502	1810	2640	688	233	450	286	1990
17	83	460	248	1130	487	1770	2490	594	224	200	170	1860
18	202	431	252	856	574	1740	2670	515	211	150	80	1940
19	138	390	239	899	677	1700	2020	488	207	150	76	1250
20	119	396	237	4670	619	1700	1960	422	196	170	80	1030
21	152	401	557	6210	1160	1740	2420	406	734	250	80	1760
22	178	385	530	4810	1320	1080	2350	462	559	1200	100	1760
23	178	414	463	4570	1170	1770	2320	420	274	2000	200	2460
24	287	401	428	3770	1190	1320	1320	432	351	1700	400	2450
25	384	385	403	3260	2500	977	1360	476	221	1400	250	2290
26	387	385	417	3460	2140	840	1630	529	193	900	450	2120
27	390	598	398	3530	2530	722	1710	401	192	1400	800	1490
28	390	475	385	2840	2490	598	1650	413	191	1000	1010	1210
29	386	431	378	2420	---	463	1580	412	185	700	800	1040
30	392	454	383	2120	---	527	1500	505	170	600	450	865
31	392	---	1430	1590	---	659	---	551	---	500	350	---
TOTAL	5612	15086	18992	104545	32235	56986	58008	26354	10852	19895	10337	37168
MEAN	181	503	613	3372	1151	1838	1934	850	362	642	333	1239
MAX	392	788	2130	8080	2530	3480	3720	2230	734	2000	1010	3180
MIN	67	301	237	856	487	463	588	401	170	110	76	155
CFSM	.27	.75	.92	5.06	1.73	2.76	2.90	1.27	.54	.96	.50	1.86
IN.	.31	.84	1.06	5.83	1.80	3.18	3.24	1.47	.61	1.11	.58	2.07

CAL YR 1978 TOTAL 315324 MEAN 864 MAX 14400 MIN 61 CFSM 1.30 IN 17.59
WTR YR 1979 TOTAL 396070 MEAN 1085 MAX 8080 MIN 67 CFSM 1.63 IN 22.09

RESERVOIRS IN TENNESSEE RIVER BASIN

03574000 GUNTERSVILLE LAKE.--Lat 34°25'17", long 86°23'34", sec. 14, T. 7 S., R. 2 E., Marshall County, Hydrologic Unit 06030001, in powerhouse at Guntersville Dam on Tennessee River, 11 mi (17.7 km) northwest of Guntersville, and at mile 349.0 (561.5 km). DRAINAGE AREA, 24,450 mi^2 (63,330 km^2), approximately. PERIOD OF RECORD, October 1938 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with eighteen 2-section lift gates 40.44 ft (12.32 m) high by 50 ft (15.24 m) wide. Dam completed and storage began Jan. 16, 1939; water in reservoir first reached minimum navigation pool elevation Jan. 27, 1939. Total level pool capacity at elevation 595.44 ft (181.490 m) (top of gates) is 530,400 ft^3/s-day (1,298 hm^3), of which 86,900 ft^3/s-day (212.6 hm^3) is controlled flood storage above elevation 593.00 ft (180.746 m) (minimum navigation pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum elevation 596.29 ft (181.749 m) Mar. 2, 1944; minimum (after start of operation plan in April 1940), 590.65 ft (180.030 m) Nov. 12, 1968. Contents based on backwater profile.

EXTREMES FOR CURRENT YEAR: Maximum midnight contents during year, 605,000 ft^3/s-day (1.480 km^3) Mar. 5; maximum elevation, 595.30 ft (181.447 m) Apr. 13, minimum midnight contents, 434,000 ft^3/s-day (1,062 hm^3) Oct. 4; minimum elevation 592.40 ft (180.564 m) Sept. 13.

03586000 WHEELER LAKE.--Lat 34°47'52", long 87°22'51", SW¼ sec. 9, T. 3 S., R. 8 W., Lawrence County, Hydrologic Unit 06030005, at Wheeler Dam on Tennessee River, 0.8 mi (1.29 km) upstream from Big Nance Creek, 30.1 mi (48.4 km) downstream from Decatur, 74.1 mi (119.2 km) downstream from Guntersville Dam, and at mile 274.9 (442.3 km). DRAINAGE AREA, 29,590 mi^2 (76,640 km^2), approximately. PERIOD OF RECORD, September 1936 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

Reservoir is formed by concrete dam with 60 radial gates 15 ft (4.57 m) high by 40 ft (12.2 m) wide and 2 trashway gates 6 ft (1.82 m) high by 37.5 ft (11.4 m) wide. Storage began Oct. 3, 1936; water in reservoir first reached minimum pool elevation Dec. 10, 1936. Total level pool capacity at elevation 556.28 ft (169.554 m) (top of gates) is 540,000 ft^3/s-day (1,321 hm^3) of which 177,000 ft^3/s-day (433 hm^3) is controlled flood storage above elevation 550.00 ft (167.640 m) (ordinary minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum elevation 557.32 ft (169.871 m) Mar. 1, 1944; minimum (after start of operation plan in August 1937), 548.43 ft (167.162 m) Dec. 9, 1962. Contents based on backwater profile.

EXTREMES FOR CURRENT YEAR: Maximum midnight contents during year, 621,000 ft^3/s-day (1,520 hm^3) Mar. 6; maximum elevation 556.24 ft (169.542 m) June 6, minimum midnight contents 376,000 ft^3/s-day (920 hm^3) Dec. 8; minimum elevation 550.03 ft (167.649 m) Feb. 23.

03589000 WILSON LAKE.--Lat 34°47'46", long 87°37'27", in SE¼ sec. 18, T. 3 S., R. 10 W., Colbert County, Hydrologic Unit 06030005, at cooling-water intake at Wilson Dam on Tennessee River, 2.9 mi (4.7 km) southeast of Florence, 4.1 mi (6.6 km) upstream from Cypress Creek, 15.5 mi (24.9 km) downstream from Wheeler Dam, and at mile 259.4 (417.4 km). DRAINAGE AREA, 30,750 mi^2 (79,642 km^2), approximately. PERIOD OF RECORD, April 1924 to current year. Prior to August 1926 monthend contents only, published in WSP 1306. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

Reservoir is formed by concrete gravity dam with fixed ogee crest. Spillway equipped with 58 Stoney gates 20.54 ft (6.26 m) [18.77 ft (5.72 m) prior to June 1941] high by 38 ft (11.6 m) wide. Storage began Apr. 14, 1924. Revised capacity table used after Dec. 31, 1970. Total capacity at elevation 507.88 ft (154.802 m) (top of gates) is 323,200 ft^3/s-day (791 hm^3) of which 29,800 ft^3/s-day (72.9 hm^3) is controlled flood storage above elevation 504.50 ft (153.772 m) (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 329,800 ft^3/s-day (807 hm^3) Apr. 29, 1963; maximum elevation, 508.35 ft (154.945 m) Feb. 11, 1948; minimum contents, 233,200 ft^3/s-day (571 hm^3) Apr. 6, 1927, elevation, 501.30 ft (152.796 m).

EXTREMES FOR CURRENT YEAR: Maximum contents during year, 322,900 ft^3/s-day (790 hm^3) May 23; elevation, 507.90 ft (154,808 m) May 23; minimum 295,600 ft^3/s-day (723 hm^3) Mar. 23, elevation 504.45 ft (153.756 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Elevation (feet)	Contents (cfs-day)	Change in contents (cfs-day)	Elevation (feet)	Contents (cfs-day)	Change in contents (cfs-day)	Elevation (feet)	Contents (cfs-day)	Change in contents (cfs-day)
	03574000 GUNTERSVILLE LAKE			03586000 WHEELER LAKE			03589000 WILSON LAKE		
Sept. 30	592.75	437,000	.....	553.05	434,000	.....	506.78	313,900	.....
Oct. 31	593.51	467,000	+ 30,000	553.47	459,000	+ 25,000	507.17	317,000	+ 3,100
Nov. 30	593.90	514,000	+ 47,000	555.10	555,000	+ 96,000	507.00	315,700	- 1,300
Dec. 31	593.55	471,000	- 43,000	551.02	408,000	- 147,000	505.68	305,200	- 10,500
CAL YR 1978	.....	.....	0	.....	.....	0	.....	.....	0
Jan. 31	593.11	475,000	+ 4,000	551.41	419,000	+ 11,000	505.80	306,200	+ 1,000
Feb. 28	594.17	527,000	+ 52,000	552.95	485,000	+ 66,000	505.86	306,600	+ 400
Mar. 31	593.25	463,000	- 64,000	551.45	405,000	- 80,000	505.83	306,400	- 200
Apr. 30	594.90	514,000	+ 51,000	555.90	530,000	+ 125,000	507.18	317,100	+ 10,700
May 31	594.78	538,000	+ 24,000	555.87	552,000	+ 22,000	506.91	315,000	- 2,100
June 30	594.75	511,000	- 27,000	555.80	506,000	- 46,000	506.61	313,000	- 2,000
July 31	593.76	484,000	- 27,000	555.55	526,000	+ 20,000	507.30	318,100	+ 5,100
Aug. 31	593.48	468,000	- 16,000	554.40	483,000	- 43,000	506.39	310,800	- 7,300
Sept. 30	595.04	527,000	+ 59,000	556.18	560,000	+ 77,000	507.48	319,500	+ 8,700
WTR YR 1979	.....	.....	+ 90,000	.....	.....	+ 126,000	.....	.....	+ 5,600

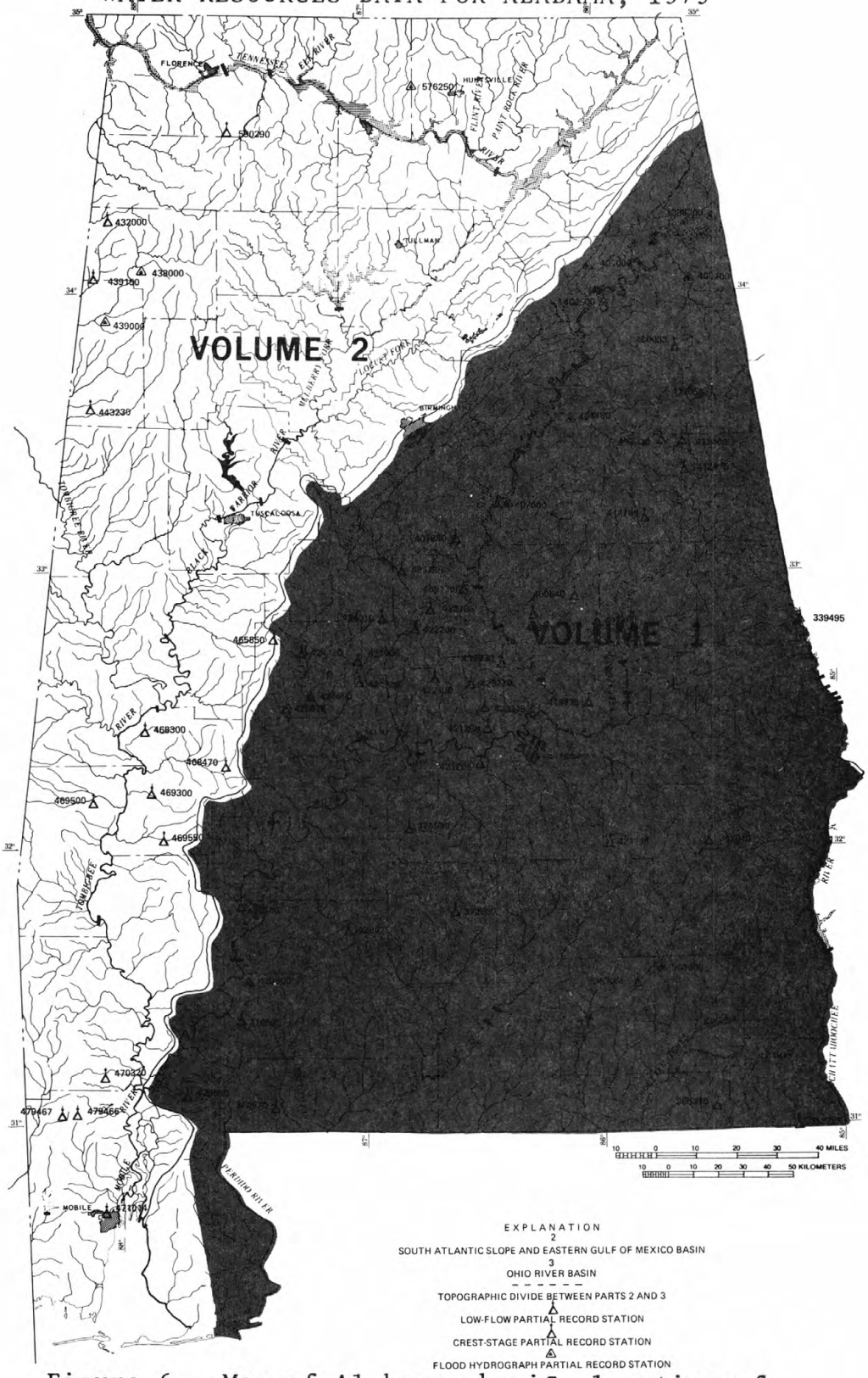

Figure 6.--Map of Alabama showing location of partial-record stations.

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 Geological Survey 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 useable in low-flow or floodflow 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 areal coverage to those events. These measurements and others collected for some special reason are called measurements at miscellaneous sites.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream when continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1979

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements: Date	Measurements: Discharge (ft^3/s)
		Mobile River basin				
02432000	Bull Mountain Creek near Shottsville, AL.	Lat 34°15'52", long 88°07'52", SE¼SW¼ sec. 20, T. 9 S., R. 15 W., Marion County, at county road 0.5 mi (0.8 km) west of Shottsville.	71.6 (187 km^2)	1966-67	10-13-78	19.1
02439150	Sipsey Creek near Detroit, AL.	Lat 34°03'45", long 88°08'43", NE¼ sec. 31, T. 11 S., R. 15 W., at county road bridge, 1 mi (1.6 km) west of highway 17 and 0.7 mi (1.1 km) north of Marion-Lamar County line.	112 (292 km^2)	1966-67	10-13-78	26.9
02465850	Big Brush Creek near Morgan Springs, AL.	Lat 32°44'53", long 87°25'48", center sec. 36, T. 21 N., R. 6 E., Perry County, at bridge on county road 1.2 mi (1.9 km) northwest of Morgan Springs.	.....	.....	11- 7-78	0
02468300	Double Creek near Jefferson, AL.	Lat 32°24'41", long 87°58'20", SE¼ sec. 27, T. 17 N., R. 1 E., Marengo County, at bridge on State Highway 28, approximately 5.0 mi (8.0 km) northwest of Jefferson.	.....	1967, 1969	11- 6-78	0
02468470	Dry Creek near Thomaston, AL.	Lat 32°19'05", long 87°37'42", NE¼ sec. 36, T. 16 N., R. 4 E., Marengo County, at bridge on State Highway 25, 4.0 mi (6.4 km) north of Thomaston.	.....	1967, 1969	11- 6-78	0
02469300	Beaver Creek near Myrtlewood, AL.	Lat 32°13'21", long 87°56'38", SW¼ sec. 36, T. 15 N., R. 1 E., Marengo County, at bridge on State Highway 69, approximately 2.0 mi (3.2 km) south of Myrtlewood, 6.5 mi (10.5 km) northeast of Pennington, and 11 mi (17.7 km) southwest of Linden.	.....	1967, 1969	11- 6-78	0
02471014	Threemile Creek at Crichton in Mobile, AL.	Lat 30°42'28", long 88°07'26", sec. 12, T. 4 S., R. 2 W., Mobile County, at highway 42, 1 mi (1.6 km) west of Crichton section of Mobile.	12.1 (31.3 km^2)	1949, 1953-55, 1975	11- 8-78	21.9
		Pascagoula River basin				
02479466	Puppy Creek on Russell Road near Citronelle, AL.	Lat 31°03'21", long 88°15'00", on line between sec. 11 and sec. 14, T. 1 N., R. 3 W., Mobile County, at bridge on Russell Road, 2.0 mi (3.2 km) south of Citronelle, 11 mi (17.7 km) south of Deer Park.	.....	1949	11- 7-78	1.38
02479467	Tributary to Puppy Creek near Citronelle, AL.	Lat 31°03'21", long 88°16'05", on line between sec. 10 and sec. 15, T. 1 N., R. 3 W., Mobile County, at bridge on Russell Road, 3.0 mi (4.8 km) southwest of Citronelle, 11 mi (17.7 km) south of Deer Park.	.....	.....	11- 7-78	1.8 est.

The data given in the following tables generally comprise 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

02438000 BUTTAHATCHEE RIVER BELOW HAMILTON, AL

LOCATION.--Lat 34°06'22", long 87°56'38", on line between secs. 14 and 15, T. 11 S., R. 14 W., Marion County, Hydrologic Unit 03160103, near right bank on downstream side of bridge on U.S. Highway 78, 0.5 mi (0.8 km) downstream from Woods Creek, 2 mi (3.2 km) south of Hamilton, and at mile 82.6 (132.9 km).

DRAINAGE AREA.--284 mi^2 (736 km^2).

PERIOD OF RECORD.--October 1950 to September 1970 (October 1970 to current year, flood hydrograph only). Monthly discharge only for period October to December 1950, published in WSP 1724.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 360.50 ft (109.880 m) National Geodetic Vertical Datum of 1929. (Levels by Corps of Engineers.) July 7, 1953, to July 10, 1954, nonrecording gage at site 300 ft (91 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years (1950-70), 506 ft^3/s (14.33 m^3/s), 24.20 in/yr (615 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,500 ft^3/s (1,400 m^3/s) Mar. 16, 1973, gage height, 35.49 ft (10.817 m); 1950-70, minimum, 19 ft^3/s (0.54 m^3/s) Sept. 2-5, 15, 1954, gage height, 0.78 ft (0.238 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 7,000 ft^3/s (198 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 1	0600	8790	249	14.35	4.374	Feb. 25	0545	8680	246	14.23	4.337
Jan. 21	0430	8810	250	14.37	4.380	Mar. 4	0100	*16200	459	*21.22	6.468

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge
12-30	1800	2.63	407	01-20	2100	11.52	6310	03-04	0100	21.22	16200
12-30	2400	3.35	740	01-20	2400	12.74	7340	03-04	0300	20.58	15400
								03-04	0600	18.89	13500
12-31	0600	5.51	1930	01-21	0200	13.52	8020	03-04	0900	16.11	10500
12-31	1200	5.58	1970	01-21	0430	14.37	8810	03-04	1200	12.96	7530
12-31	1800	5.01	1630	01-21	0600	14.29	8740	03-04	1600	10.24	5290
12-31	2400	9.05	4380	01-21	1200	12.09	6780	03-04	2400	7.79	3480
				01-21	1600	10.44	5440				
				01-21	2000	9.05	4380	03-05	1200	6.21	2380
01-01	0300	12.80	7390	01-21	2400	8.06	3670	03-05	2400	5.42	1870
01-01	0500	14.03	8490								
01-01	0600	14.35	8790	01-22	1200	6.15	2340	03-06	2400	4.61	1410
01-01	1000	13.53	8030	01-22	2400	5.35	1830				
01-01	1300	13.75	8230					04-11	2400	3.34	735
01-01	1800	12.95	7520	01-23	2400	5.23	1760				
01-01	2400	11.34	6160					04-12	0400	6.46	2550
				02-24	1200	3.97	1060	04-12	0600	12.09	6780
				02-24	2400	9.32	4580	04-12	0800	14.16	8620
01-02	0100	10.96	5860					04-12	1000	14.40	8840
01-02	0600	9.10	4420	02-25	0200	12.38	7030	04-12	1400	13.39	7900
01-02	1200	7.08	2980	02-25	0400	13.89	8360	04-12	1800	14.20	8650
01-02	1800	5.86	2150	02-25	0545	14.23	8680	04-12	2000	15.61	10000
01-02	2400	5.17	1730	02-25	0900	13.43	7940	04-12	2200	17.92	12400
				02-25	1200	12.39	7040	04-12	2400	19.62	14300
				02-25	1400	11.26	6100				
01-03	0600	4.71	1460	02-25	1800	9.38	4630	04-13	0100	20.20	15000
				02-25	2400	7.65	3380	04-13	0600	21.19	16100
01-19	1200	3.57	847					04-13	0900	20.91	15800
01-19	2400	4.61	1410	02-26	1200	5.95	2200	04-13	1300	20.21	15000
				02-26	2400	5.14	1710	04-13	1600	18.71	13300
								04-13	1900	16.21	10600
01-20	0200	5.58	1970	02-27	2400	4.33	1260	04-13	2200	13.60	8100
01-20	0500	9.21	4500					04-13	2400	12.01	6720
01-20	0600	10.50	5500	03-02	2400	3.39	759				
01-20	0900	13.48	7990	03-03	1200	5.26	1780	04-14	0100	11.33	6160
01-20	1115	14.17	8620	03-03	1400	9.85	4990	04-14	0400	9.90	5020
01-20	1200	14.15	8610	03-03	1600	13.13	7680	04-14	1200	7.83	3510
01-20	1400	13.76	8240	03-03	1800	16.73	11200	04-14	2400	6.49	2570
01-20	1800	12.45	7090	03-03	2000	18.81	13400				
				03-03	2345	21.03	16000				
				03-03	2400	21.00	15900	04-15	2400	5.13	1700

MOBILE RIVER BASIN

02439000 BUTTAHATCHEE RIVER NEAR SULLIGENT, AL

LOCATION.--Lat 33°55'08", long 88°07'47", in NE¼ sec. 19, T. 13 S., R. 15 W., Lamar County, Hydrologic Unit 03160103, near left bank on downstream side of bridge on State Highway 17, 1 mi (1.6 km) upstream from Bogue Creek, 1.5 mi (2.4 km) northwest of Sulligent, 2 mi (3.2 km) downstream from Beaver Creek, and at mile 56.7 (91.2 km).

DRAINAGE AREA.--472 mi^2 (1.222 km^2).

PERIOD OF RECORD.--March 1939 to September 1959. October 1959 to September 1960, annual maximum only. October 1971 to current year (flood hydrograph only).

GAGE.--Water-stage recorder. Datum of gage is 287.58 ft (87.654 m) National Geodetic Datum of 1929. Prior to June 1, 1942, nonrecording gage at site 500 ft (152 m) upstream at datum 1.00 ft (0.305 m) higher. July 1, 1942 to September 30, 1971, nonrecording gage at present site and datum. November 3, 1948, to September 30, 1971, supplemental nonrecording gage on side channel at datum 10.00 ft (3.048 m) lower. Since August 12, 1971, supplemental water-stage recorder on side channel at datum 10.00 ft (3.048 m) lower.

REMARKS.--Records good. Discharge figures computed by summation of flow in main and side channels and include flow of unnamed tributary entering river from left bank a short distance downstream from the station. No gage-height record for the period Mar. 12 to June 20.

AVERAGE DISCHARGE.--20 years (March 1939 to September 1959), 747 ft^3/s (21.16 m^3/s), 21.49 in/yr (546 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,100 ft^3/s (1,702 m^3/s) Mar. 17, 1973; maximum gage height, 17.31 ft (5.276 m) Mar. 17, 1973; 1939-59, minimum discharge observed, 32 ft^3/s (0.906 m^3/s) Sept. 15, 16, 1954, gage height, 2.30 ft (0.701 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 21	1000	10200	289	15.17	4.624	Apr. 3	0600	4530	128	14.72	4.487
Feb. 25	2100	8310	235	14.89	4.538	Apr. 13	1900	*15900	450	*15.44	4.706
Mar. 4	1800	14400	408	15.30	4.663						

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

Date	Time	Gage height	Discharge	Date	Time	Gage height	discharge	Date	Time	Gage height	Discharge
01-19	0600	9.08	1020	02-26	0600	15.01	7410	04-04	0600	14.65	3850
01-19	1200	8.95	992	02-26	1200	15.03	6640	04-04	1200	14.54	3620
01-19	1800	9.12	1020	02-26	1800	14.94	5770	04-04	1800	14.44	3420
01-19	2400	9.96	1200	02-26	2400	14.77	4900	04-04	2400	14.39	3340
01-20	0600	12.26	1820	02-27	0600	14.56	4090	04-05	2400	13.94	2750
01-20	1200	13.89	2770	02-27	1200	14.28	3340				
01-20	1800	14.38	3470	02-27	1800	13.96	2840	04-06	2400	12.56	1880
01-20	2400	14.93	5470	02-27	2400	13.59	2540				
								04-09	2400	12.85	2020
				02-28	0600	13.18	2250				
01-21	0600	15.14	8460	02-28	1200	12.80	2010	04-10	2400	11.24	1480
01-21	0800	15.13	9490	02-28	1800	12.42	1840				
01-21	0900	15.13	9850	02-28	2400	12.08	1730	04-11	2400	10.25	1250
01-21	1000	15.17	10200								
01-21	1100	15.15	10200	03-03	0600	10.44	2140	04-12	0600	14.72	4570
01-21	1200	15.15	10200	03-03	1200	11.32	2870	04-12	1200	14.55	4260
01-21	1300	15.15	10100	03-03	1800	14.47	5570	04-12	1800	14.81	4970
01-21	1400	15.14	10100	03-03	2400	14.83	11000	04-12	2400	15.18	8260
01-21	1800	15.15	9890								
01-21	2400	15.15	9850	03-04	1800	15.30	14400				
								04-13	0600	15.25	12800
01-22	0600	15.12	9540	03-07	1800	13.20	2280	04-13	1200	15.31	13700
01-22	1200	15.09	8440	03-07	2400	12.93	2100	04-13	1800	15.42	15600
01-22	1800	15.00	7320					04-13	1900	15.44	15900
01-22	2400	14.85	6230	03-08	0600	12.66	1940	04-13	2000	15.44	15900
				03-08	1200	12.39	1840	04-13	2400	15.42	15300
01-23	0600	14.66	5200	03-08	1800	12.09	1730				
01-23	1200	14.43	4300	03-08	2400	11.81	1640	04-14	0600	15.33	14100
01-23	1800	14.21	3620					04-14	1200	15.23	12000
01-23	2400	13.99	3110	03-31	0600	7.94	816	04-14	1800	15.13	9590
				03-31	1200	7.90	810	04-14	2400	15.09	7960
01-24	0600	13.81	2810	03-31	1800	7.84	817				
01-24	1200	13.71	2670	03-31	2400	7.83	856				
01-24	1800	13.68	2630					04-15	0600	15.02	6870
01-24	2400	13.61	2580	04-01	0600	9.53	1160	04-15	1200	14.92	6050
				04-01	1200	12.01	1800	04-15	1800	14.77	5250
02-23	0600	9.30	1060	04-01	1800	13.26	2840	04-15	2400	14.62	4610
02-23	1200	9.35	1070	04-01	2400	13.65	3590				
02-23	1800	9.45	1100					04-16	0600	14.46	4060
02-23	2400	9.62	1130	04-02	0100	13.68	3650	04-16	1200	14.28	3540
				04-02	0500	13.74	3840	04-16	1800	14.09	3060
02-24	0600	9.95	1200	04-02	0600	13.83	3910	04-16	2400	13.90	2830
02-24	1200	10.31	1320	04-02	1200	13.96	3920				
02-24	1800	10.85	1910	04-02	1800	14.04	3800				
02-24	2400	13.22	2800	04-02	2400	14.39	4100	04-17	0600	13.66	2600
								04-17	1200	13.39	2410
02-25	0600	14.27	4100	04-03	0600	14.72	4530	04-17	1800	13.11	2210
02-25	1200	14.41	5900	04-03	1200	14.80	4510	04-17	2400	12.83	2030
02-25	1800	14.71	7720	04-03	1800	14.79	4420				
02-25	2000	14.85	8230	04-03	2400	14.74	4110				
02-25	2100	14.89	8310								
02-25	2400	15.01	8300								

TENNESSEE RIVER BASIN

03576250 LIMESTONE CREEK NEAR ATHENS, AL

LOCATION.--Lat 34°45'06", long 86°49'24", in SW¼ sec. 26, T. 3 S., R. 3 W., Limestone County, Hydrologic Unit 06030003, on downstream side of U.S. Highway 72 bridge between Athens and Huntsville, and at mile 17.0 (27.4 km).

DRAINAGE AREA.--119 mi^2 (308 km^2).

PERIOD OF RECORD.--October 1939 to September 1970. (October 1970 to current year, flood hydrograph only). Converted to crest-stage partial-record station September 30, 1979. Prior to October 1966 published by Tennessee Valley Authority, Division of Water Planning, Hydraulic Data Branch.

GAGE.--Water-stage recorder. Datum of gage is 626.34 ft (190.908 m) National Geodetic Vertical Datum of 1929 (levels by TVA).

REMARKS.--Records good.

AVERAGE DISCHARGE.--31 years (1939-70), 194 ft^3/s (5.494 m^3/s), 33.14 in/yr (562 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,800 ft^3/s (1,300 m^3/s) Mar. 16, 1973, gage height, 17.28 ft (5.267 m); 1939-70, minimum daily, 8.0 ft^3/s (0.227 m^3/s) Sept. 2, 3, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft^3/s (90.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 1	2000	4470	127	8.98	2.737	Mar. 4	0600	*5610	159	*9.70	2.957
Jan. 21	1300	3380	95.7	8.07	2.460	Apr. 13	0200	5320	151	9.53	2.905
Feb. 25	1800	3510	99.4	8.19	2.496						

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge
12-30	2400	2.18	243	01-22	0600	5.16	1220	03-04	0400	9.60	5440
				01-22	1200	4.35	870	03-04	0600	9.70	5610
12-31	0600	3.44	549	01-22	1800	3.85	686	03-04	0800	9.65	5520
12-31	1200	4.30	850	01-22	2400	3.59	598	03-04	1200	9.34	5020
12-31	1800	4.26	835					03-04	1600	8.61	3960
12-31	2400	4.26	835	02-23	2400	2.46	294	03-04	2000	7.36	2710
								03-04	2400	5.92	1640
01-01	0600	5.64	1480	02-24	0600	2.49	299	03-05	0600	4.69	1010
01-01	1200	8.24	3560	02-24	1200	2.49	299	03-05	1200	4.06	760
01-01	1800	8.90	4350	02-24	1800	2.48	297	03-05	1800	3.62	608
01-01	2000	8.98	4470	02-24	2400	3.21	477	03-05	2400	3.37	526
01-01	2400	8.64	3990								
				02-25	0600	7.08	2470	04-11	2400	1.95	201
01-02	0600	8.06	3370	02-25	1200	7.82	3140				
01-02	1200	6.04	1710	02-25	1700	8.15	3470	04-12	0600	2.13	234
01-02	1800	4.78	1050	02-25	1800	8.19	3510	04-12	1200	5.17	1230
01-02	2400	3.98	732	02-25	1900	8.10	3420	04-12	1800	7.57	2900
				02-25	2400	6.78	2240	04-12	2000	8.33	3650
01-19	2400	2.22	250					04-12	2200	9.03	4540
				02-26	0600	5.22	1260	04-12	2400	9.40	5110
01-20	0600	3.28	498	02-26	1200	4.38	882				
01-20	1200	5.04	1170	02-26	1800	3.82	675	04-13	0200	9.53	5320
01-20	1800	6.31	1890	02-26	2400	3.49	565	04-13	0400	9.37	5060
01-20	2400	6.49	2020					04-13	0600	9.27	4910
				03-02	2400	2.35	274	04-13	1000	9.45	5190
01-21	0600	7.74	3060					04-13	1200	9.25	4880
01-21	1200	8.03	3340					04-13	1600	8.42	3750
01-21	1300	8.07	3380	03-03	0600	2.31	266	04-13	2000	7.55	2880
01-21	1400	8.04	3350	03-03	1200	2.42	286	04-13	2400	6.59	2090
01-21	1800	7.92	3230	03-03	1800	6.27	1860				
01-21	2400	6.71	2180	03-03	2400	9.54	5340	04-14	0600	5.18	1240
								04-14	1200	4.47	919
								04-14	1800	3.98	732
								04-14	2400	3.63	611

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, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1979

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (ft)	Discharge (ft^3/s)
		Mobile River basin					
02443230	Mud Creek near Fernbank, Ala.	Lat 33°36'32", long 88°09'45", in SE¼ sec. 1, T. 17 S., R. 16 W., Lamar County, 3.0 mi (4.8 km) northwest of Fernbank at county road crossing, and 7.0 mi (11.3 km) above mouth.	35.8 (92.7 km^2)	1971-72 1971-73 1971-74 1971-75 1971-76 1971-77 1971-78 1971-79	10- 4-71 3-16-73 12-26-73 3-13-75 10-17-75 3- 5-77 5- 9-78 4-13-79	33.44 34.40 33.88 34.46 33.63 33.64 33.32 34.91	b1,860 b3,800 b2,560 b3,980 b2,140 b2,160 b1,680 5,340
02469500	Tuckabum Creek near Butler, Ala.	Lat 32°11'00", long 88°10'12", in S½ sec. 15, T. 14 N., R. 2 W., Choctaw County, on left bank, 150 ft (46 m) upstream from bridge on State Highway 17, 2.5 mi (4.0 km) upstream from Yantley Creek, 4 mi (6 km) downstream from Boguelichitto Creek, and 7 mi (11 km) northeast of Butler.	112 (290 km^2)	1954-70†, 1971-79	3- 4-79	19.63	11,600
02469550	Horse Creek near Sweetwater, Ala.	Lat 32°02'57", long 87°52'12", in SW¼ sec. 34, T. 13 N., R. 2 E., Marengo County, near right bank on downstream side of bridge on Marengo County Highway 25, 0.5 mi (0.8 km) downstream from Mill Creek, 0.8 mi (1.3 km) south of Exmoor, 1.2 mi (1.9 km) north of Hoboken, 3 mi (5 km) upstream from Sweetwater Creek, and 3.5 mi (5.6 km) south of Sweetwater.	52.8 (136.8 km^2)	1959-70†, 1971-79	3- 8-79	18.66	28,100
02470320	Bates Creek near Sims Chapel, Ala.	Lat 31°12'31", long 88°06'46", in S½ sec. 19, T. 3 N., R. 1 W., Washington County, about 7.5 mi (12.1 km) northwest of Calvert, near Sims Chapel.	51.8 (134.2 km^2)	1970-79	3- 4-79	41.51	8,420
		Tennessee River basin					
03590290	Spring Creek near Spring Valley, Ala.	Lat 34°37'42", long 87°37'19", in SW¼NW¼NE¼ sec. 18, T. 5 S., R. 10 W., Colbert County, on county road 77, 5.5 mi (8.8 km) north of Littleville and 2.5 mi (4.0 km) south of Spring Valley.	27.1	1977-79	3- 4-77 5- 9-78 4-13-79	21.08 19.15	4,860 <2,500 2,750

† Operated as a continuous-record gaging station.
b Revised.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin				
02437795 West Branch Buttahatchee River	Buttahatchee River	Lat 34°07'42", long 87°44'15", in NW¼ sec. 6, T. 11 S., R. 11 W., Marion County at bridge on U.S. Highway 278, 0.4 mi (0.6 km) north of Whitehouse.	38.8 (100 km^2)	.....	6-12-79 8-29-79	22.1 35.0
02437805 Barn Creek	Buttahatchee River	Lat 34°08'09", long 87°48'00", in NE¼NW¼NE¼ sec. 4, T. 10 S., R. 12 W., Marion County, at bridge on U.S. Highway 278, 3.8 mi (6.1 km) west of Whitehouse.	.....	.....	6-13-79 9-29-79	7.00 9.23
02437815 Buttahatchee River	Tombigbee River	Lat 34°08'10", long 87°52'10", in NE¼NE¼ sec. 2, T. 11 S., R. 13 W., Marion County, at U.S. Highway 278, 2.2 mi (3.5 mi) northwest of Pearces Mill.	134 (347 km^2)	1966-67	6-12-79 8-29-79	55.5 112
02437825 Camp Creek	Buttahatchee River	Lat 34°08'50", long 87°52'10", in NW¼SE¼ sec. 35, T. 10 S., R. 13 W., Marion County, at county road, 0.5 mi (0.8 km) north of U.S. Highway 278, 0.2 mi (0.3 km) upstream from mouth, and 6.6 mi (10.6 km) east of Hamilton.	18.1 (46.9 km^2)	1966-67	6-13-79 8-29-79	9.88 8.36
02437868 Williams Creek	Buttahatchee River	Lat 34°10'13", long 87°58'50", in SE¼SW¼ sec. 23, T. 12 S., R. 14 W., Marion County, at County Highway 1, and 2.0 mi (3.2 km) north of Hamilton.	26.4 (68.4 km^2)	1966-67	6-13-79 8-28-79	a15.6 a14.6
02437900 Woods Creek	Buttahatchee River	Lat 34°07'33", long 87°54'16", in NE¼SW¼SE¼ sec. 4, T. 11 S., R. 13 W., Marion County, at county road, 5 mi (8 km) southeast of Hamilton.	14.1 (36.5 km^2)	1959-65‡ 1966-70	6-13-79 8-29-79	a10.3 a6.28

‡ Operated as a continuous-record station.
a Base flow.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		Mobile River basin--Continued				
02438450 Buttahatchee River	Tombigbee River	Lat 34°05'25", long 88°00'43", in SW¼SW¼NE¼ sec. 21, T. 11 S., R. 14 W., Marion County, at county road, 5.0 mi (8 km) southwest of Hamilton.	286 (740 km²)	.....	6-13-79 8-28-79	140 194
02438550 Buttahatchee River	Tombigbee River	Lat 34°01'07", long 88°03'12", in SE¼SW¼NW¼ sec. 18, T. 12 S., R. 14 W., Lamar County, at County Highway 16, 0.6 mi (1 km) east of Henson Springs.	329 (852 km²)	1973	6-12-79 8-28-79	184 217
02438852 Beaver Creek	Buttahatchee River	Lat 33°58'03", long 87°56'27", in NW¼SE¼ sec. 31, T. 12 S., R. 13 W., Marion County, on county road, 1.5 mi (2.4 km) west of Guin.	26.2 (67.9 km²)	1949	6-13-79 8-30-79	a15.3 a8.88
02441920 Luxapallila Creek	Tombigbee River	Lat 33°53'22", long 87°50'25", in NW¼ sec. 31, T. 13 S., R. 12 W., Fayette County, 11.5 mi (18.5 km) north of Fayette.	61.0 (158 km²)	1967-68	6- 8-79 8-30-79	a37.2 a21.2
02445000 Lubbub Creek	Tombigbee River	Lat 33°14'47", long 88°04'53", in SE¼NE¼ sec. 10, T. 21 S., R. 15 W., Pickens County, on County Highway 12, 1.0 mi (1.6 km) southeast of Carrollton.	112 (290 km²)	1949, 1954-64,‡ 1977-78	11- 8-78 9-17-79	a13.7 437
02445245 New River	Sipsey River	Lat 33°55'47", long 87°40'47", in SE¼SE¼SW¼ sec. 10, T. 13 S., R. 11 W., Marion County, at U.S. Highway 78, 8.0 mi (13 km) east of Winfield.	59.3 (154 km²)	1942, 1946-47, 1974, 1978	6-12-79 8-27-79	a25.2 52.5
02445320 Sipsey River	Tombigbee River	Lat 33°50'45", long 87°43'26", in SE¼ sec. 7, T. 14 S., R. 11 W., Fayette County, 12.7 mi (20.4 km) northeast of Fayette.	154 (399 km²)	1967-68, 1978	6-12-79 8-27-79	a66.1 119
02445330 Boxes Creek	Sipsey River	Lat 33°40'28", long 87°37'25", in SE¼NW¼NE¼ sec. 19, T. 14 S., R. 10 W., Fayette County, at county road, 700 ft (214 m) northwest of Johnson Cemetary, and 3.8 mi (6.1 km) southwest of Howard.	7.43 (19.2 km²)	.....	8- 3-79	0.23
02445500 Sipsey River	Tombigbee River	Lat 33°40'10", long 87°48'59", in SW¼ sec. 8, T. 16 S., R. 12 W., Fayette County, at county road 1.0 mi (1.6 km) southeast of Fayette.	276 (715 km²)	1939-59,‡ 1967, 1975	6-13-79 8-30-79	134 a97.3
02447000 Sipsey River	Tombigbee River	Lat 33°02'31", long 88°21'45", in NW¼NE¼ sec. 29, T. 24 N., R. 1 W., Pickens County at State Highway 14, 2.5 mi (4.0 km) northwest of Pleasant Ridge.	753 (1950 km²)	1939-59,‡ 1977-78	2-14-79 8-15-79 9-10-79	1330 a287 356
02448985 Noxubee River	Tombigbee River	Lat 32°49'36", long 88°10'58", in NE¼NW¼SW¼ sec. 3, T. 21 N., R. 2 W., Sumter County, at county road 1400 ft (427 m) upstream from mouth, and 1.4 mi (2.2 km) northwest of Gainesville.	1460 (3780 km²)	1978	1-11-79 4-14-79	4530 124000
02449300 Tombigbee River	Mobile River	Lat 32°44'13", long 88°05'58", in SE¼NE¼SE¼ sec. 5, T. 20 N., R. 1 W., Sumter County, at bridge on Interstate Highways 20 and 59, 3.5 mi (5.6 km) northeast of Epes.	.....	.....	4-16-79	234000
02449870 Blue Spring	Blue Spring Creek	Lat 34°08'08", long 86°32'16", in NE¼NW¼SE¼ sec. 28, T. 10 S., R. 1 Blount County, 4.8 mi (7.7 km) northeast of Blountsville.	.....	1967-74,‡ 1977-78	10-27-78	a0.64

‡ Operated as a continuous-record station.
a Base flow.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
02449890 Big Spring	Unnamed tributary	Lat 34°03'18", long 86°39'07", in NE¼NE¼NW¼ sec. 28, T. 11 S., R. 1 W., Blount County, 3.8 mi (6.1 km) southeast of Blountsville.	.....	1967-71, 1973-75, 1977	10-27-78	a5.32
02450160 Marriott Creek	Mulberry Fork	Lat 33°56'53", long 86°51'37", in S½ sec. 33, T. 12 S., R. 3 W., Cullman County at State Highway 91 at Black Bottom, 4.0 mi (6.4 km) northwest of Blount Springs.	24 (62.2 km^2)	1967-68, 1978	6-18-79 9- 4-79	a3.32 57.9
02450600 Clear Creek	Sipsey Fork	Lat 34°08'49", long 87°29'33", in SE¼SW¼ sec. 28, T. 10 S., R. 9 W., Winston County, at bridge on U.S. Highway 278, 5.0 mi (8 km) west of Double Springs.	22.2 (57.8 km^2)	1968	6- 7-79 9- 5-79	a16.4 a23.9
02450800 Clear Creek	Sipsey Fork	Lat 34°07'30", long 87°25'50", in NE¼ sec. 1, T. 11 S., R. 9 W., Winston County, at County Highway 25, 2.3 mi (3.7 km) southwest of Double Springs.	89.6 (232 km^2)	1954-57, 1966-67	6- 7-79 9- 5-79	a28.4 69.6
02450850 Clear Creek	Sipsey Fork	Lat 34°03'10", long 87°23'10", in NW¼ sec. 33, T. 11 S., R. 8 W., Winston County at State Highway 195, 1.5 mi (2.4 km) north of Poplar Springs.	116 (300 km^2)	1949, 1966-67	6- 7-79 9- 5-79	a53.8 97.3
02451580 Crooked Creek	Brushy Fork	Lat 34°06'58", long 87°03'11", between secs. 3 and 4, T. 11 S., R. 5 W., Cullman County, at county road, 3.3 mi (5.3 km) southwest of Logan.	54.2 (140 km^2)	1967-68	6- 7-79 9- 5-79	a37.9 a38.9
02451770 Ryan Creek	Sipsey Fork	Lat 34°07'16", long 86°53'57", in SW¼ sec. 31, T. 10 S., R. 3 W., Cullman County, at County Highway 22, 4.5 mi (7.2 km) southwest of Cullman.	42.8 (111 km^2)	1967-68	6- 7-79 9- 5-79	a49.0 a21.1
02452495 Leeth Creek	Sipsey Fork	Lat 33°52'54", long 87°03'19", in NW¼SW¼ sec. 27, T. 13 S., R. 5 W., Walker County, on County Highway 9, 6 mi (9.6 km) north of Sipsey.	4.75 (12.4 km^2)	.....	6- 7-79 9- 5-79	a3.36 a1.49
02452540 Mathis Creek	Mulberry Fork	Lat 33°47'31", long 87°06'08", in NE¼SE¼SW¼ sec. 30, T. 14 S., R. 5 W., Walker County, at county road 1000 ft (305 m) south of U.S. Highway 78, and 3.5 mi (5.6 km) northwest of Sumiton.	2.94 (7.62 km^2)	1978	6-18-79 9- 5-79	0.02 0.53
02452660 Splunge Creek	Blackwater Creek	Lat 34°01'00", long 87°29'00", in NW¼ sec. 9, T. 12 S., R. 9 W., Winston County, at county road, 0.7 mi (1.1 km) north of Ashbank.	36.5 (94.5 km^2)	1966-67	6- 7-79 8-30-79	a31.6 a22.6
02452701 Blackwater Creek	Mulberry Fork	Lat 34°00'30", long 87°27'33", in NW¼ sec. 14, T. 12 S., R. 9 W., Winston County, at Old Union Church Road, 2.0 mi (3.2 km) east of Ashbank.	91.0 (236 km^2)	1966-67	6- 7-79 8-30-79	a21.1 a8.83
02453020 Blackwater Creek	Mulberry Fork	Lat 33°53'05", long 87°09'41", in NW¼ sec. 27, T. 13 S., R. 6 W., Walker County, at State Highway 69, 7.8 mi (13 km) north of Jasper.	213 (552 km^2)	1949, 1967-68	6- 8-79 9- 5-79	a135 303
02453384 Cane Creek	Mulberry Fork	Lat 33°47'54", long 87°16'35", in SW¼SW¼NE¼ sec. 28, T. 14 S., R. 7 W., Walker County, at State Highway 269 at Cameron.	16.2 (42.0 km^2)	.....	6- 8-79 8-29-79	3.47 0

a Base flow.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
02453828 West Fork Lost Creek	Lost Creek	Lat 33°50'28", long 87°27'23", in SW¼NE¼SW¼ sec. 11, T. 14 S., R. 9 W., Walker County, at county road 1.6 mi (2.6 km) northwest of Townley.	6.75 (17.5 km^2)	.....	8-31-79	1.02
02453839 Lost Creek	Mulberry Fork	Lat 38°53'14", long 87°29'52", in NE¼NE¼SE¼ sec. 29, T. 13 S., R. 9 W., Walker County, at county road, 2.0 mi (3.2 km) east of Carbon Hill.	30.8 (79.8 km^2)	1978	6- 7-79 8-30-79	a16.3 a6.67
02453900 Cheatam Creek	Lost Creek	Lat 33°53'29", long 87°26'59", in NE¼ sec. 26, T. 13 S., R. 9 W., Walker County, at bridge on county road, 1.2 mi (1.9 km) upstream from mouth, 4.5 mi (7.2 km) east of Carbon Hill.	4.70 (12.2 km^2)	1978	6-15-79 9- 4-79	0.40 6.43
02453950 Lost Creek	Mulberry Fork	Lat 33°48'56", long 87°23'02", in NW¼ sec. 21, T. 14 S., R. 8 W., Walker County at U.S. Highway 78, 6.0 mi (9.6 km) west of Jasper.	115 (298 km^2)	1942-45, 1949, 1972, 1978	6-15-79	27.4
02454000 Lost Creek	Mulberry Fork	Lat 33°45'50", long 87°21'30", in SE¼ sec. 3, T. 15 S., R. 8 W., Walker County, at State Highway 69, 6.5 mi (10.5 km) southwest of Jasper.	134 (347 km^2)	1951-66,‡ 1973-74, 1978	6- 7-79 8-29-79	a56.9 a44.1
02454072 Black Branch	Cane Creek	Lat 34°44'17", long 87°24'55", in SW¼NW¼SE¼ sec. 18, T. 15 S., R. 8 W., Walker County, at county road, 0.2 mi (0.3 km) south of Coal Valley, 2.5 mi (4 km) northwest of Oakman, and 3.5 mi (5.6 km) northeast of Corona.	3.30 (8.55 km^2)	1978	6-18-79 9- 4-79	0.07 12.4
02454095 Cane Creek	Lost Creek	Lat 33°41'15", long 87°18'50", in NE¼NW¼ sec. 6, T. 16 S., R. 7 W., Walker County, at bridge on county road, 3 mi (4.8 km) southwest of Parrish.	23.4 (60.6 km^2)	1978	6- 8-79 6-15-79 0- 4-79	a0.84 a2.90 38.3
02454155 Wolf Creek	Lost Creek	Lat 33°47'21", long 87°31'20", in NW¼SE¼NW¼ sec. 31, T. 14 S., R. 9 W., Walker County, at State Highway 102, 6.3 mi (10.1 km) southwest of Townley.	9.93 (25.7 km^2)	.....	8-31-79	a3.26
02454175 Wolf Creek	Lost Creek	Lat 33°42'34", long 87°28'39", in SE¼ sec. 28, T. 15 S., R. 9 W., Walker County, at State Highway 18, 0.1 mi (0.2 km) upstream from Frost Creek, and 0.5 mi (0.8 km) west of Corona.	45.3 (117 km^2)	1978	6-14-79 9- 5-79	a1.84 65.6
02454185 Blue Water Creek	Wolf Creek	Lat 33°40'00", long 87°29'49", in SE¼NE¼SE¼ sec. 8, T. 16 S., R. 9 W., Fayette County, at county road 3.2 mi (5.1 km) south-southwest of Corona, and 6 mi (9.7 km) east-northeast of Berry.	0.35 (0.907 km^2)	1978	6-14-79 9- 5-79	a0.04 a1.80
02454190 Unnamed tributary	Blue Water Creek	Lat 33°39'46", long 87°25'22", in NE¼SW¼SW¼ sec. 7, T. 16 S., R. 8 W., Walker County, at Blue Water Trace Road, 1500 ft (457 m) upstream from mouth, 2.2 mi (3.5 km) southwest of Enoe, and 4 mi (6.4 km) southwest of Oakman.	0.49 (1.27 km^2)	1978	6-13-79 9- 5-79	a0.04 a0.52

‡ Operated as a continuous-record station.
a Base flow.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
02454200 Wolf Creek	Lost Creek	Lat 33°40'20", long 87°23'15", in NW¼ sec. 9, T. 16 S., R. 8 W., Walker County, at State Highway 69, 3 mi (4.8 km) south of Oakman.	85.0 (220 km^2)	1959-70,† 1973	6- 7-79 6-13-79 8-30-79 9- 6-79	a19.4 a7.26 a6.16 82.3
02454420 Cove Spring	Little Cove Creek	Lat 34°06'30", long 86°15'10", in SW¼SW¼NE¼ sec. 6, T. 11 S., R. 4 E., Etowah County, 3.9 mi (6.3 km) northeast of Walnut Grove.	.....	1965, 1968, 1970-74,‡ 1977-78	10-26-78	a1.70
02454500 Locust Fork	Black Warrior River	Lat 34°08'00", long 86°23';2", in SE¼ sec. 25, T. 10 S., R. 2 E., Blount County, at bridge on State Highway 75, 0.5 mi (0.8 km) downstream from Mud Creek, 1.5 mi (2.4 km) upstream from Slab Creek, and 2.4 mi (3.9 km) northwest of Snead.	147 (381 km^2)	1952-57‡	6- 8-79 8-31-79	130 a14.6
02455204 Blackburn Fork	Locust Fork	Lat 35°51'23", long 86°33'47", in SW¼ sec. 32, T. 13 S., R. 1 E., Blount County, at bridge on State Highway 75, 3.5 mi (5.6 km) northeast of Remlap.	78.4 (203 km^2)	.....	6- 8-79 8-31-79	163 a1.10
02455270 Calvert Prong	Locust Fork	Lat 33°56'05", long 86°34'57", in NW¼ sec. 6, T. 13 S., R. 1 E., Blount County, at county road, 3.0 mi (4.8 km) northeast of Locust Fork.	81.0 (210 km^2)	1967-68	6- 8-79 8-31-79	165 a18.0
02456997 Robinwood Spring	Robinwood Spring Branch	Lat 33°37'00", long 86°44'14", in SE¼NW¼ sec. 27, T. 16 S., R. 2 W., Jefferson County, 0.5 mi (0.8 km) east of Robinwood.	.....	1968-71, 1973-78	10-24-78	a0.77
02462040 Rock Creek	Valley Creek	Lat 33°29'01", long 87°06'14", in NW¼SE¼SW¼ sec. 7, T. 18 S., R. 5 W., Jefferson County, at county road approximately 3 mi (4.8 km) northeast of Oak Grove.	30.7 (79.5 km^2)	1970, 1978	6-18-79 8-31-79	a23.3 51.2
02462050 Valley Creek	Black Warrior River	Lat 33°29'32", long 87°09'47", in NW¼ sec. 10, T. 18 S., R. 6 W., Jefferson County, at county road, 1.5 mi (2.4 km) downstream from Rock Creek, and 2.9 mi (4.7 km) north of Oak Grove.	190 (492 km^2)	1964, 1973	3- 4-79 6- 4-79 8-27-79	13700 a208 325
02462080 Mud Creek	Valley Creek	Lat 33°27'38", long 87°11'52", in SE¼ sec. 19, T. 18 S., R. 6 W., Jefferson County, at county road, 6.0 mi (9.6 km) south of Oak Grove.	46.2 (120 km^2)	1944, 1967-68, 1973-74, 1978	6- 4-79 8-27-79	a24.1 a26.2
02462255 Unnamed tributary	Shoal Creek	Lat 33°34'21", long 87°17'48", in SW¼SE¼SW¼ sec. 17, T. 17 S., R. 8 W., Walker County at county road, 1.5 mi (2.4 km) southwest of Tutwiler School, and 6.5 mi (10.5 km) east of Wiley.	0.76 (1.97 km^2)	1978	6-14-79 9- 4-79	a0.95 2.69
02462257 Unnamed tributary	Unnamed tributary	Lat 33°34'24", long 87°17'53", in SE¼SW¼SW¼ sec. 8, T. 17 S., R. 7 W., Walker County, about county road, 1.5 mi (2.4 km) southwest of Tutwiler School, and 6.5 mi (10.5 km) east of Wiley.	0.33 (0.855 km^2)	1978	9- 4-79	a0.03
02462480 Big Yellow Creek	Black Warrior River	Lat 33°34'18", long 87°24'10", in NE¼NW¼ sec. 17, T. 17 S., R. 8 W., Tuscaloosa County, at State Highway 69, 0.4 mi (0.6 km) northeast of Whitson.	14.4 (37.3 km^2)	1967, 1973-74	6- 5-79 8-30-79	a2.96 a0.81

‡ Operated as a continuous-record station.
a Base flow.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		Mobile River basin--Continued				
02462490 Little Yellow Creek	Big Yellow Creek	Lat 33°34'01", long 87°24'37", in SW¼NE¼ sec. 18, T. 17 S., R. 8 W., Tuscaloosa County, at State Highway 69, 0.2 mi (0.3 km) sougheast of Whitson.	15.0 (38.8 km²)	1968, 1973-74, 1977	6- 8-79 8-28-79	a5.81 a2.82
02462625 Blue Creek	Black Warrior River	Lat 33°29'02", long 87°28'18", in NW¼NW¼ sec. 15, T. 18 S., R. 9 W., Tuscaloosa County, about 0.25 mi (0.4 km) downstream from bridge on county road 1.6 mi (2.6 km) east-southeast of Windham Springs.	13.2 (34.2 km²)	1973-74, 1977	6- 8-79 8-28-79	a4.36 a1.39
02462650 Blue Creek	Black Warrior River	Lat 33°27'01", long 87°24'51", in SW¼NE¼ sec. 30, T. 18 S., R. 8 W., Tuscaloosa County, at Watermelon Road, 0.7 mi (1.1 km) downstream from Lick Creek, and 6 mi (9.6 km) southeast of Windham Springs.	38.3 (99.2 km²)	1973-74, 1977	6- 8-79 8-28-79	a7.38 a2.71
02462685 Davis Creek	Black Warrior River	Lat 33°17'13", long 87°11'50", in NE¼ sec. 19, T. 20 S., R. 6 W., Tuscaloosa County, at County Highway 116, at Abernant.	17.2 (44.5 km²)	1956-59	6- 5-79 8-28-79	a5.64 a2.68
02462800 Davis Creek	Black Warrior River	Lat 33°18'30", long 87°13'10", in SE¼ sec. 12, T. 20 S., R. 7 W., Tuscaloosa County, at county road 0.6 mi (0.9 km) downstream from Texas Creek, and 2 mi (3.2 km) northwest of Abernant.	45.2 (117 km²)	1956-71,‡ 1972-73	6- 6-79 8-29-79	a16.5 a6.33
02462812 Hannah Mill Creek	Davis Creek	Lat 33°19'32", long 87°15'22", in SW¼SE¼ sec. 3, T. 20 S., R. 7 W., Tuscaloosa County, at county road, 2.5 mi (4.0 km) southeast of Burchfield.	7.09 (18.4 km²)	1978	6- 5-79 8-27-79	a4.96 a4.39
02462828 Cane Creek	Davis Creek	Lat 33°21'08", long 87°18'46", in NE¼NW¼ sec. 31, T. 19 S., R. 7 W., Tuscaloosa County, 1.0 mi (1.6 km) northwest of Burchfield, and 2.0 mi (3.2 km) north-northeast of Searles.	0.15 (0.389 km²)	1978	6- 5-79 8-27-79	a1.19 a0.36
02462840 Davis Creek	Black Warrior River	Lat 33°23'20", long 87°18'30", in SW¼ sec. 17, T. 19 S., R. 7 W., Tuscaloosa County, at county road, 3.2 mi (5.2 km) north of Kellerman.	87.1 (226 km²)	1973-74	6- 5-79 8-29-79	a44.2 a15.1
02462970 Yellow Creek	Black Warrior River	Lat 33°25'23", long 87°27'49", in NE¼SW¼NE¼ sec. 3, T. 19 S., R. 9 W., Tuscaloosa County, at logging road in Gulf States Forest Reserve, 5.0 mi (8.0 km) south-southwest of Windham Springs.	0.55 (1.42 km²)	1977	6-11-79	a0.69
02462980 Yellow Creek	Black Warrior River	Lat 33°23'26", long 87°28'30", in NE¼NE¼SE¼ sec. 16, T. 19 S., R. 9 W., Tuscaloosa County, at logging road in Gulf States Forest Reserve, 7.5 mi (12.1 km) south of Windham Springs.	3.64 (9.43 km²)	1977-78	10- 4-78 11-15-78 8-28-79	a1.86 a2.24 a3.20
02462985 Unnamed tributary	Yellow Creek	Lat 33°23'18", long 87°27'51", in NW¼SE¼ sec. 15, T. 19 S., R. 9 W., Tuscaloosa County, at logging road in Gulf States Forest Reserve, 7.5 mi (12.1 km) south of Windham Springs.	2.49 (6.45 km²)	1977-78	11- 6-78	a1.59
02462991 Unnamed tributary	Yellow Creek	Lat 33°21'38", long 87°27'39", in SW¼NE¼SE¼ sec. 27, T. 19 S., R. 9 W., Tuscaloosa County, 40 ft (12.2 m) upstream from mouth, 5 mi (8 km) north of Lake Nicol Dam, and 9 mi (14.5 km) south-southeast of Windham Springs.	1.49 (3.86 km²)	1977-78	10- 6-78 11- 6-78 12- 7-78 1- 8-79 1-31-79 3- 2-79 3-29-79 5- 1-79 5-22-79 6- 5-79 6-27-79 8- 3-79 9- 4-79	a1.24 a1.33 a1.84 4.36 3.14 3.69 2.61 4.09 a2.86 a2.97 a2.26 a1.98 a2.46

‡ Operated as a continuous-record station.
a Base flow.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
02463090 Cypress Creek	Yellow Creek	Lat 33°15'38", long 87°27'58", in NE¼NE¼SE¼ sec. 34, T. 20 S., R. 9 W., Tuscaloosa County, at coal haul road, 300 ft (91 m) upstream from mouth, 2 mi (3.2 km) northeast of Holt.	2.56 (6.63 km^2)	1977	6- 5-79	a2.68
02463200 Hurricane Creek	Black Warrior River	Lat 33°13'15", long 87°19'00", in NW¼ sec. 18, T. 21 S., R. 7 W., Tuscaloosa County, at county road 1.5 mi (2.4 km) upstream from Little Hurricane Creek, and 3.0 mi (4.8 km) north of Cedar Cove.	29.0 (75.1 km^2)	1956-61,‡ 1978	6- 4-79 8-27-79	a11.3 a6.87
02463500 Hurricane Creek	Black Warrior River	Lat 33°13'45", long 87°26'55", in S½ sec. 14, T. 21 S., R. 9 W., Tuscaloosa County, at State Highway 116, 2.8 mi (7.3 km) southeast of Holt.	108 (280 km^2)	1942-45, 1949, 1952-69,‡ 1972, 1978	6- 4-79 8-27-79	a57.1 a60.1
02463540 North River	Black Warrior River	Lat 33°46'06", long 87°36'05", on line between secs. 5 and 8, T. 15 S., R. 10 W., Fayette County, at county road, 13.2 mi (21.2 km) northeast of Fayette.	13.1 (33.9 km^2)	1967-68	6- 4-79	a2.64
02463580 Unnamed tributary	Cane Creek	Lat 33°42'46", long 87°34'02", in SE¼SE¼ sec. 27, T. 15 S., R. 10 W., Fayette County, at county road 4.0 mi (6.4 km) northeast of Berry.	1.31 (3.39 km^2)	1978	6-14-79 9- 5-79	a0.20 3.30
02463583 Cane Creek	North River	Lat 33°41'58", long 87°34'31", in SW¼NE¼SW¼ sec. 34, T. 15 S., R. 10 W., Fayette County, at bridge on county road, 2.4 mi (3.9 km) south of Pea Ridge.	.....	.....	6-14-79	a0.32
02463585 Cane Creek	North River	Lat 33°42'00", long 87°35'19", in NW¼SE¼ sec. 33, T. 15 S., R. 10 W., Fayette County, at county road 3 mi (4.8 km) north of Berry.	5.91 (15.3 km^2)	1978	6-14-79 9- 5-79	a0.33 10.9
02463605 Ellis Creek	North River	Lat 33°42'10", long 87°38'19", in NW¼SE¼ sec. 36, T. 15 S., R. 11 W., Fayette County at county road 0.5 mi (0.8 km) southeast of Zion Church, and 3.5 mi (5.6 km) north of Bankston.	2.46 (6.37 km^2)	1978	6-14-79 9- 5-79	a0.57 2.50
02463835 Unnamed tributary	Freeman Creek	Lat 33°33'56", long 87°38'40", in NW¼NW¼ sec. 24, T. 17 S., R. 11 W., Tuscaloosa County, at end of dirt road 1.5 mi (2.4 km) northeast of New Lexington.	0.44 (1.14 km^2)	1978	6- 6-79 8-30-79	a0.23 a0.27
02463840 Little Tyro Creek	Tyro Creek	Lat 33°36'02", long 87°30'25", in SW¼NW¼ sec. 5, T. 17 S., R. 9 W., Tuscaloosa County, 0.7 mi (1.1 km) upstream from Poplar Hollow Branch, 1.0 mi (1.6 km) northwest of Sandtown, and 4.9 mi (7.9 km) northeast of Sterling.	0.26 (0.673 km^2)	1977	6-13-79 8-29-79	a0.15 a0.11
02463850 Tyro Creek	North River	Lat 33°33'58", long 87°34'34", in SW¼ sec. 15, T. 17 S., R. 10 W., Tuscaloosa County, at county road 2.4 mi (3.9 km) upstream from mouth, and 4.5 mi (7.2 km) east of New Lexington.	21.5 (55.7 km^2)	1968, 1977	6- 7-79 8-29-79	a13.3 a0.98
02463880 Unnamed tributary	Bear Creek	Lat 33°33'49", long 87°32'12", in NE¼SE¼SW¼ sec. 13, T. 17 S., R. 10 W., Tuscaloosa County, at ford on farm road crossing, 0.6 mi (1.0 km) north of Liberty Hill Church, and 7.0 mi (11.3 km) east of New Lexington.	3.11 (8.06 km^2)	1977	6-13-79 8-29-79	0.61 0.15

‡ Operated as a continuous-record station.
a Base flow.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
02463890 Dry Branch	Bear Creek	Lat 33°32'33", long 87°32'22", in SE¼SW¼ sec. 25, T. 17 S., R. 10 W., Tuscaloosa County, at county road 0.8 mi (1.3 km) south of Liberty Hill Church, 0.9 mi (1.4 km) upstream from mouth, and approximately 11.5 mi (18.9 km) northeast of Samantha.	0.72 (1.86 km^2)	1977-78	10- 3-78	0
					11- 3-78	0
					12- 5-78	a0.04
					1- 4-79	1.24
					2- 9-79	1.78
					3- 1-79	3.06
					3-26-79	1.10
					4-27-79	a0.60
					6- 6-79	a0.16
					8-29-79	a0.01
02464020 Johnson Branch	Cripple Creek	Lat 33°30'32", long 87°32'24", in SW¼NW¼ sec. 1, T. 18 S., R. 10 W., Tuscaloosa County, at bridge on county road, 1.3 mi (2.1 km) northeast from Oregonia Church.	2.71 (7.02 km^2)	1977	6- 7-79	a0.91
					8-29-79	a0.09
02464025 Cripple Creek	North River	Lat 33°29'24", long 87°33'46", in SE¼SE¼ sec. 10, T. 18 S., R. 10 W., Tuscaloosa County, at bridge on State Highway 38, 4.0 mi (6.4 km) west of Windham Springs.	12.2 (31.6 km^2)	1977	6- 7-79	a4.20
					8-30-79	a0.89
02464035 Cripple Creek	North River	Lat 33°28'25", long 87°34'06", in SE¼NW¼NE¼ sec. 22, T. 18 S., R. 10 W., Tuscaloosa County, 2.1 mi (3.4 km) east of Samantha post office.	.....	1978	10- 3-78	a0.08
					11- 3-78	0.13
					12- 6-78	a3.44
					1- 5-79	22.2
					2- 9-79	42.2
					2-28-79	53.3
					3-28-79	22.4
					4-25-79	18.9
					5-25-79	a3.68
					6-25-79	a2.02
					7-30-79	12.4
					8-29-79	a1.12
02464143 Unnamed tributary	Turkey Creek	Lat 33°23'55", long 87°29'11", in NW¼ sec. 16, T. 19 S., R. 9 W., Tuscaloosa County at logging road in Gulf States Forest Reserve 2.3 mi (3.7 km) south of Piney Woods Church, and 16 mi (25.7 km) northeast of Tuscaloosa.	0.79 (2.05 km^2)	1977	6-12-79	a0.77
					9- 4-79	0
02464145 Turkey Creek	North River	Lat 33°24'32", long 87°30'45", in E½ sec. 7, T. 19 S., R. 9 W., Tuscaloosa County, at bridge on State Highway 69, approximately 14 mi (22.5 km) north of Tuscaloosa.	6.13 (15.9 km^2)	1977-78	10- 2-78	a1.16
					11- 6-78	a1.71
					11-15-78	a1.75
					12- 6-78	a2.46
					1- 3-79	15.4
					1-30-79	15.2
					2-27-79	19.6
					3-28-79	8.68
					4-27-79	12.2
					5-23-79	a5.84
					6- 4-79	a4.71
					9- 4-79	a2.90
02464300 Binion Creek	North River	Lat 33°26'33", long 87°39'54", on line between secs. 34 and 35, T. 18 S., R. 11 W., Tuscaloosa County, at bridge on county road 4 mi (6.4 km) northwest of Samantha.	19.0 (49.2 km^2)	1968	6- 6-79	a17.6
					8-27-79	a14.3
02464313 Barbee Creek	Binion Creek	Lat 33°31'47", long 87°39'30", in NW¼ sec. 35, T. 17 S., R. 11 W., Tuscaloosa County, at county road 8.5 mi (13.7 km) northwest of Samantha.	1.85 (4.79 km^2)	1977	6- 6-79	a1.95
					8-30-79	a1.10
02464317 Barbee Creek	Binion Creek	Lat 33°30'27", long 87°38'48", on line between secs. 1 and 12, T. 18 S., R. 11 W., Tuscaloosa County, at bridge on county road 4.0 mi (6.4 km) south of New Lexington.	5.19 (13.4 km^2)	1977	6- 6-79	a2.93
					8-30-79	a1.99
02464640 Carrolls Creek	North River	Lat 33°20'23", long 87°39'26", in sec. 2, T. 20 S., R. 11 W., Tuscaloosa County, at county road 9 mi (14.5 km) southeast of Brownville.	5.64 (14.6 km^2)	.....	6- 7-79	a4.13
					8-27-79	a2.07

a Base flow.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
02464800 North River	Black Warrior River	Lat 33°16'54", long 87°31'06", in SE¼NW¼NW¼ sec. 32, T. 20 S., R. 9 W., Tuscaloosa County, below spillway of Lake Tuscaloosa Dam, 4.0 mi (6.4 km) northeast of Northport.	417 (1080 km^2)	.....	8-27-79	a65.1
02465374 Big Sandy Creek	Black Warrior River	Lat 33°06'03", long 87°19'35", in sec. 25, T. 22 S., R. 8 W., Tuscaloosa County, above mouth of Big Sandy Spring, 4.5 mi (7.2 km) south of Coaling.	.....	1956-57, 1969, 1974-75	11- 1-78	a1.64
02465375 Big Sandy Spring	Big Sandy Creek	Lat 33°06'02", long 87°19'32", in NW¼ sec. 25, T. 22 S., R. 8 W., Tuscaloosa County, at mouth of spring 4.5 mi (7.2 km) south of Coaling.	.....	1944-45, 1956-60, 1969, 1974-75, 1977	11- 1-78	a13.5
02465376 Big Sandy Creek	Black Warrior River	Lat 33°06'06", long 87°19'36", in sec. 25, T. 22 S., R. 8 W., Tuscaloosa County, just below mouth of Big Sandy Spring, 4.5 mi (7.2 km) south of Coaling.	.....	1956-57, 1969, 1974-75	11- 1-78	a15.1
		Tennessee River basin				
03568712 Phillips Spring	Unnamed tributary	Lat 34°37'40", long 85°36'06", in NE¼ sec. 5, T. 5 S., R. 10 E., DeKalb County, 3.3 mi (5.3 km) northeast of Hammondville.	.....	1965, 1967-71, 1973-78	10-25-78	a1.47
03572160 Brown Spring	Bengis Creek	Lat 34°53"53", long 85°48'52", in NW¼ sec. 5, T. 2 S., R. 8 E., Bengis Reservation, Jackson County, 2.4 mi (3.9 km) northeast of Stevenson.	.....	1966, 1968-71, 1973-75, 1977-78	10-25-78	a0.39
03572210 Flat Rock Creek	Coon Creek	Lat 34°45'55", long 85°42'25", in NW¼ sec. 21, T. 3 S., R. 9 E., Jackson County, at bridge on State Highway 117 at Flat Rock.	28.3 (73.7 km^2)	1953, 1973-74	6- 5-79 8-29-79	49.4 a3.08
03572230 Dry Creek	Coon Creek	Lat 34°47'00", long 85°47'00", in NE¼ sec. 15, T. 3 S., R. 8 E., Jackson County, at bridge on county road 2 mi (3.2 km) southwest of Sulphur Springs School, and 3 mi (4.8 km) upstream from mouth.	9.5 (24.7 km^2)	1973-74	6- 5-79 8-29-79	22.8 a3.58
03572400 Bryant Creek	Tennessee River	Lat 34°38'48", long 85°50'34", in NW¼ sec. 31, T. 4 S., R. 8 E., at bridge on State Highway 71, 2.3 mi (3.7 km) south of Pisgah, and 5.7 mi (9.2 km) southwest of Rosalie.	41.8 (109 km^2)	1953-54, 1957, 1963-65, 1973-74	6- 6-79 8-29-79	104 a5.76
03572700 South Sauty Creek	Tennessee River	Lat 34°29'58", long 85°57'52", in NW¼ sec. 24, T. 6 S., R. 6 E., at Mantheny bridge on county line road between Jackson and DeKalb Counties, and 2.5 mi (4.0 km) southeast of Macedonia.	102 (266 km^2)	1963-65, 1973-75	6- 5-79 8-29-79	262 a30.1
03576143 Hughes Spring	Unnamed tributary	Lat 34°25'01", long 86°35'38", in NW¼ sec. 24, T. 7 S., R. 1 W., Morgan County, 4 mi (6.4 km) south of Morgan City, and 6.3 mi (10.1 km) east of Florette.	.....	1968-69, 1971, 1974-75, 1977-78	10-24-78	a0.33
03576175 Cave Spring	Unnamed tributary	Lat 34°32'46", long 86°51'04", in NE¼SW¼ sec. 4, T. 6 S., R. 3 W., Morgan County, 1,000 ft (305 m) upstream from Wheeler Reservation, and 3.4 mi (5.5 km) northeast of Priceville.	.....	1968-71, 1973-75, 1977	10-24-78	a0.50

a Base flow.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Tennessee River basin--Continued				
03583250 Blowing Spring	Holland Creek	Lat 34°59'30", long 86°52'47", in NW¼NE¼ sec. 6, T. 1 S., R. 3 W., Limestone County, at U.S. Highway 31, 1,000 ft (305 m) south of the Alabama-Tennessee State line, and 2 mi (3.2 km) west of Ardmore.	.....	1968-71, 1973-75, 1977-78	10-26-78	a1.06
03585528 Wheeler Spring	Wheeler Branch	Lat 34°39'09", long 87°15'06", in SE¼ sec. 34, T. 4 S., R. 7 W., Lawrence County, 200 ft (61.0 m) south of State Highway 20, at Wheeler.	.....	1968-71, 1973-75, 1977-78	10-24-78	a0.14
03585638 Blowing Spring	First Creek	Lat 34°51'52", long 87°18'14", in SE¼NE¼ sec. 19, T. 2 S., R. 7 W., Lauderdale County, 1,000 ft (305 m) north of county road and 2.7 mi (4.3 km) north of Rogersville.	.....	1956, 1968-71, 1973, 1975, 1977-78	10-25-78	a0.13
03590740 Rock Spring	Unnamed tributary	Lat 34°51'27", long 87°54'09", in SW¼NW¼NW¼ sec. 27, T. 2 S., R. 13 W., Lauderdale County, 2 mi (3.2 km) southwest of Rhodesville.	.....	1967-71, 1973-75, 1977-78	10-25-78	a1.5
03591825 Bear Creek	Tennessee River	Lat 34°18'59", long 87°51'30", in SW¼NE¼SW¼ sec. 36, T. 8 S., R. 13 W., Franklin County, at Military Bridge, on Military Road, 3.0 mi (4.8 km) northwest of Hackleburg.	182 (471 km^2)	.....	6- 4-79 8-28-79	435 153
03592607 Buzzard Roost Spring	Buzzard Roost Creek	Lat 34°45'36", long 88°01'26", in sec. 32, T. 3 S., R. 14 W., Colbert County, at Natchez Trace 0.2 mi (0.3 km) south of U.S. Highway 72, and 3 mi (4.8 km) west of Cherokee.	.....	1968-71, 1973-75, 1977-78	10-25-78	a0.54

a Base flow.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02437795 WEST BRANCH BUTTAHATCHEE RIVER AT WHITEHOUSE, AL (Lat 34 07 42 Long 087 44 15)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
12...	1145	22	29	6.3	20.0	5	0	4	4.0	2.9
AUG										
29...	0815	35	42	7.0	22.0	11	0	9	1.8	4.4

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
12...	--	--	--	--	--	940	820	120	--	--
AUG										
29...	0	<10	<10	<10	<10	1800	1700	130	1800	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
12...	70	20	50	--	--	--	--	12	.72
AUG									
29...	70	20	50	50	.00	0	<10	167	16

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02437805 BARN CREEK AT U.S. HIGHWAY 278 NEAR HAMILTON, AL (Lat 34 08 09 Long 087 48 00)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN 13...	0850	7.0	47	6.6	20.0	18	0	15	7.2	7.0
AUG 29...	0945	9.2	39	7.2	23.0	16	0	13	1.6	5.9

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN 13...	--	--	--	--	--	1200	730	470	--	--
AUG 29...	0	<10	40	10	20	1100	660	440	28000	100

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 13...	110	10	100	--	--	--	--	11	.21
AUG 29...	110	10	100	340	.00	0	20	10	.25

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02437815 BUTTAHATCHEE RIVER NEAR PEARCE'S MILL, AL (Lat 34 08 10 Long 087 52 10)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
12...	1645	55	35	6.2	25.0	8	0	7	8.1	3.7
AUG										
29...	1130	112	38	7.2	24.0	12	0	10	1.2	6.2

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
12...	--	--	--	--	--	2900	2600	280	--	--
AUG										
29...	0	<10	10	<10	<10	1400	1200	190	8700	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
12...	80	30	50	--	--	--	--	11	1.6
AUG									
29...	--	0	90	190	.00	0	20	34	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02437825 CAMP CREEK NEAR HAMILTON, AL (Lat 34 08 50 Long 087 52 10)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
13...	1100	9.9	32	6.7	19.0	10	0	8	3.2	4.2
AUG										
29...	1330	8.4	43	7.2	25.5	11	0	9	1.1	8.7

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
13...	--	--	--	--	--	690	560	130	--	--
AUG										
29...	0	<10	<10	<10	<10	1300	1300	30	3400	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
13...	70	10	60	--	--	--	--	12	.32
AUG									
29...	150	0	150	400	.00	0	20	160	3.6

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02437868 WILLIAMS CREEK ABOVE HAMILTON, AL (Lat 34 10 13 Long 087 58 50)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
13...	0920	15	19	6.5	18.0	4	0	3	2.0	1.7
AUG										
28...	1145	15	28	7.2	23.5	10	0	8	1.0	1.4

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
13...	--	--	--	--	--	610	490	120	--	--
AUG										
28...	0	<10	<10	<10	<10	670	510	160	2900	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
13...	50	0	50	--	--	--	--	5	.21
AUG									
28...	50	0	50	180	.00	0	<10	13	.53

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02437900 WOODS CREEK NEAR HAMILTON, AL (Lat 34 07 33 Long 087 54 16)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
13...	1330	10	20	5.9	21.5	3	0	2	6.0	2.1
AUG										
29...	1430	6.3	20	7.2	--	--	--	--	--	1.3

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
13...	--	--	--	--	--	1100	1000	100	--	--
AUG										
29...	0	<10	<10	<10	30	1100	970	130	2700	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
13...	110	10	100	--	--	--	--	8	.22
AUG									
29...	80	0	80	90	.00	0	10	8	.14

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02438450 BUTTAHATCHEE RIVER AT FULTON BRIDGE, AL (Lat 34 05 25 Long 088 00 43)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN 13...	1130	140	43	6.8	23.0	8	0	7	2.0	2.9
AUG 28...	1315	194	42	7.2	25.5	11	0	9	1.1	6.3

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN 13...	--	--	--	--	--	1100	890	210	--	--
AUG 28...	0	<10	<10	<10	<10	2800	2700	100	1700	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 13...	60	0	60	--	--	--	--	22	8.3
AUG 28...	100	30	70	230	.00	0	20	81	42

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02438550 BUTTAHATCHEE RIVER AT HENSON SPRINGS, AL (Lat 34 01 07 Long 088 03 12)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
12...	1145	184	43	6.6	23.0	8	0	7	3.2	2.7
AUG										
28...	1445	217	46	7.0	26.5	13	0	11	2.1	6.7

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
12...	--	--	--	--	--	2800	2800	40	--	--
AUG										
28...	0	<10	<10	<10	<10	3600	3500	90	3300	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
12...	170	50	120	--	--	--	--	76	38
AUG									
28...	170	40	130	100	.00	0	<10	123	72

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02438852 BEAVER CREEK WEST OF GUIN, AL (Lat 33 58 03 Long 087 56 27)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
13...	1330	15	25	6.7	24.0	6	0	5	1.9	.9
AUG										
30...	0815	8.9	24	7.0	22.5	9	0	7	1.4	2.8

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
13...	--	--	--	--	--	970	850	120	--	--
AUG										
30...	1	<10	<10	<10	<10	1100	970	130	1900	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
13...	210	20	190	--	--	--	--	8	.33
AUG									
30...	190	0	190	30	.00	0	10	8	.19

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02441920 LUXAPALLILA CREEK NEAR GLEN ALLEN, AL (Lat 33 53 22 Long 087 50 25)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
08...	1030	37	46	6.7	22.0	10	0	8	3.2	4.8
AUG										
30...	0945	21	58	7.1	23.0	15	0	12	1.9	8.2

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
08...	--	--	--	--	--	1000	710	290	--	--
AUG										
30...	0	<10	<10	<10	<10	770	520	250	1400	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
08...	210	30	180	--	--	--	--	12	1.2
AUG									
30...	--	0	190	130	.00	0	<10	9	.51

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02445000 LUBBUB CREEK NEAR CARROLLTON, AL (Lat 33 15 Long 088 05)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
OCT												
03...	1550	21	52	6.7	21.5	7.0	5.4	.4	14	0	11	4.5
NOV												
08...	1500	13	40	6.0	15.0	35	6.7	1.4	14	0	11	22
FEB												
12...	1045	158	27	5.6	5.5	7.0	12.1	2.6	5	0	4	20
AUG												
14...	1030	60	28	5.9	23.0	20	5.3	1.3	8	0	7	16
SEP												
17...	1215	437	25	5.6	20.0	25	6.2	2.1	4	0	3	16

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT												
03...	--	--	.12	.11	--	.38	.49	.61	2.7	.17	--	.12
NOV												
08...	--	--	.00	.03	--	.28	.31	.31	1.4	.11	--	.00
FEB												
12...	--	--	.00	.01	.00	.00	.00	.00	.00	.02	--	.01
AUG												
14...	--	--	.09	.05	.06	.46	.51	.60	2.7	.09	.28	.01
SEP												
17...	.00	.01	.01	.03	.04	.77	.80	.81	3.6	.11	.34	.03

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02445245 NEW RIVER NEAR WINFIELD, AL (Lat 33 55 47 Long 087 40 47)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
12...	1045	25	330	7.6	23.0	58	0	48	2.3	110
AUG										
27...	1245	52	284	7.2	24.0	24	0	20	2.4	79

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
12...	--	--	--	--	--	530	450	80	--	--
AUG										
27...	0	<10	<10	<10	<10	4300	4200	60	5700	10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
12...	370	10	360	--	--	--	--	9	.61
AUG									
27...	520	80	440	210	.00	0	20	127	18

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02445320 SIPSEY RIVER NEAR HUBBERTVILLE, AL (Lat 33 50 45 Long 087 43 26)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
12...	1330	66	230	7.6	22.0	38	0	31	1.5	69
AUG										
27...	1445	119	300	7.5	24.5	39	0	32	2.0	85

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
12...	--	--	--	--	--	480	340	140	--	--
AUG										
27...	0	<10	<10	<10	<10	1700	1600	90	2900	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
12...	170	20	150	--	--	--	--	8	1.4
AUG									
27...	420	90	330	160	.00	0	10	80	26

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02445330 BOXES CREEK NEAR HOWARD, AL (Lat 33 49 28 Long 087 37 25)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
AUG 31...	1115	.23	285	6.9	25.0	60	120	110	.0	.0	21

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
AUG 31...	17	4.7	8	.2	7.6	2.9	21	0	17	4.2	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
AUG 31...	111	2.0	.1	5.0	193	174	.26	.12	.14	690

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
AUG 31...	660	30	1500	1400	110	80	50	30	31	.02

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02445500 SIPSEY RIVER AT FAYETTE, AL (Lat 33 40 10 Long 087 48 59)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
13...	1230	134	125	7.0	22.0	21	0	17	3.4	32
AUG										
30...	1130	97	191	7.4	24.5	24	0	20	1.5	58

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
13...	--	--	--	--	--	850	410	440	--	--
AUG										
30...	0	<10	<10	<10	<10	620	400	220	2700	10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
13...	200	20	180	--	--	--	--	10	3.6
AUG									
30...	190	10	180	320	.00	0	20	13	3.4

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02447000 SIPSEY RIVER NEAR PLEASANT RIDGE, AL (Lat 33 02 Long 088 07)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
OCT												
03...	0930	192	88	6.8	21.0	3.0	6.4	.2	20	0	16	5.1
FEB												
14...	1330	1330	53	6.3	7.0	7.0	11.6	1.2	6	0	5	4.8
AUG												
15...	0945	287	58	6.7	25.5	10	7.2	.7	16	0	13	5.1
SEP												
10...	1200	356	55	6.8	25.0	15	7.1	.8	12	0	10	3.0

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT												
03...	--	--	.12	.00	--	.18	.18	.30	1.3	.01	--	.01
FEB												
14...	--	--	.07	.01	--	.11	.12	.19	.84	.01	--	.02
AUG												
15...	--	--	.24	.02	.02	.32	.34	.58	2.6	.03	.09	.02
SEP												
10...	.17	.01	.18	.02	.02	.37	.39	.57	2.5	.05	.15	.02

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02450160 MARRIOTT CREEK AT BLACK BOTTOM NEAR BLOUNT SPRINGS, AL (Lat 33 56 53 Long 086 51 37)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 18...	1430	3.3	200	5.9	22.5	2	75	70	.0	.0	12
SEP 04...	1330	57	111	7.4	23.5	10	45	39	.0	.0	7.6

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 18...	11	4.1	10	.2	5.8	1.7	6	0	5	12	.0
SEP 04...	6.3	3.1	13	.2	4.5	1.4	7	0	6	.4	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 18...	75	2.3	.1	9.7	--	119	.16	1.06	.09	40
SEP 04...	40	1.9	.1	10	81	75	.11	12.7	.15	380

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 18...	30	10	140	110	30	--	0	960	1	.01
SEP 04...	310	70	570	470	100	--	0	950	23	3.6

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02450180 MULBERRY FORK NEAR ARKADELPHIA, AL (Lat 33 52 19 Long 086 55 20)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN 07...	1215	450	85	7.5	24.0	36	0	30	1.8	--
SEP 04...	1230	900	80	7.4	24.0	42	0	34	2.7	9.4

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN 07...	--	--	--	--	--	1500	1300	190	--	--
SEP 04...	0	<10	<10	<10	<10	110	--	--	8900	10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 07...	120	90	30	--	--	--	--	44	53
SEP 04...	80	--	--	380	.00	0	20	140	340

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02450600 CLEAR CREEK NEAR NATURAL BRIDGE, AL (Lat 34 08 49 Long 087 29 33)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
07...	0900	16	32	7.1	20.0	10	0	8	1.3	5.1
SEP										
05...	1210	23	31	6.5	24.0	8	0	7	4.0	3.3

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
07...	--	--	--	--	--	1200	880	320	--	--
SEP										
05...	0	<10	<10	<10	<10	1300	1100	250	2900	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
07...	70	10	60	--	--	--	--	9	.39
SEP									
05...	60	20	40	170	.00	0	<10	20	1.3

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02450800 CLEAR CREEK NEAR DOUBLE SPRINGS, AL (Lat 34 07 30 Long 087 25 50)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
07...	1005	28	29	7.0	20.0	14	0	11	2.2	4.0
SEP										
05...	1050	69	34	7.3	23.5	14	0	11	1.1	2.6

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
07...	--	--	--	--	--	1100	960	140	--	--
SEP										
05...	0	<10	<10	<10	<10	1400	1100	280	2800	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
07...	50	10	40	--	--	--	--	12	.91
SEP									
05...	70	30	40	150	.00	0	<10	23	4.3

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02450825 CLEAR CREEK AT NEW HOPE CHURCH NEAR POPLAR SPRINGS, AL (Lat 34 04 52 Long 087 25 22)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
07...	1215	54	27	6.9	21.0	10	0	8	2.0	3.8
SEP										
05...	0920	97	54	7.0	23.0	16	0	13	2.6	5.4

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
07...	--	--	--	--	--	1300	1000	260	--	--
SEP										
05...	0	<10	<10	10	<10	1400	1000	390	16000	10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
07...	70	10	60	--	--	--	--	14	2.0
SEP									
05...	80	30	50	800	.00	0	50	30	7.9

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02451580 CROOKED CREEK NEAR LOGAN, AL (Lat 34 06 58 Long 087 03 11)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
07...	1540	38	54	7.0	22.0	16	0	13	2.6	2.5
SEP										
05...	1350	38	48	6.6	24.5	16	0	13	6.4	3.3

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
07...	--	--	--	--	--	--	--	190	--	--
SEP										
05...	0	<10	30	<10	<10	630	320	310	20000	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
07...	--	--	20	--	--	--	--	14	1.4
SEP									
05...	50	30	20	160	.00	0	20	20	2.1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02451770 RYAN CREEK NEAR CULLMAN, AL (Lat 34 07 16 Long 086 53 57)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
07...	1640	49	74	7.1	22.0	24	0	20	3.1	6.9
SEP										
05...	1400	21	88	6.4	--	50	0	41	32	5.4

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
07...	--	--	--	--	--	850	610	240	--	--
SEP										
05...	0	<10	10	<10	<10	1200	1100	70	16000	20

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
07...	60	10	50	--	--	--	--	28	3.7
SEP									
05...	110	60	50	230	.00	0	20	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02451952 SIPSEY FORK BELOW LEWIS SMITH DAM NEAR JASPER, AL (Lat 33 56 29 Long 087 06 21)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
JUN								
07...	1000	4320	42	5.5	13.0	10	0	8
SEP								
05...	1300	9060	40	6.4	11.0	18	0	15

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN							
07...	51	290	220	70	10	0	10
SEP							
05...	11	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02452495 LEETH CREEK NEAR SIPSEY, AL (Lat 33 52 54 Long 087 03 19)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
07...	1425	3.4	360	7.1	22.0	22	0	18	2.8	140
SEP										
05...	1015	1.4	498	6.7	24.0	54	0	44	17	190

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
07...	--	--	--	--	--	500	470	30	--	--
SEP										
05...	0	<10	<10	<10	<10	370	330	40	6800	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
07...	2100	1900	220	--	--	--	--	11	.10
SEP									
05...	1900	100	1800	520	.00	0	20	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02452540 MATHIS CREEK NEAR SUMITON, AL (Lat 33 47 31 Long 087 06 08)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
18...	1130	.02	92	7.4	22.0	0	28	11	.0	.0	4.0
SEP											
05...	1010	.53	108	6.6	25.0	20	35	16	.0	.0	5.6

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
18...	4.4	5.8	30	.5	7.2	1.4	21	0	17	1.3	.0
SEP											
05...	5.0	4.8	22	.4	6.2	1.4	23	0	19	9.2	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
18...	22	2.2	.0	6.9	--	57	.09	.00	.03	150
SEP										
05...	24	3.3	.1	9.8	70	65	.10	.10	.03	420

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
18...	130	20	170	100	70	20	10	10	5	.00
SEP										
05...	380	40	930	900	30	50	30	20	2	.00

MOBILE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02452660 SPLUNGE CREEK AT ASHBANK, AL (Lat 34 01 00 Long 087 29 00)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN 07...	1445	31	42	6.1	22.0	14	0	11	18	3.0
AUG 30...	1145	22	49	6.3	25.0	14	0	11	11	6.4

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN 07...	--	--	--	--	--	2200	2100	150	--	--
AUG 30...	0	<10	<10	<10	<10	1600	1400	210	1200	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 07...	300	40	260	--	--	--	--	15	1.3
AUG 30...	170	10	160	130	.00	0	<10	15	.92

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02452701 BLACKWATER CREEK NEAR NAUVOO, AL (Lat 34 00 30 Long 087 27 33)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN 07...	1645	21	25	5.8	22.0	8	0	7	20	4.0
AUG 30...	0945	8.8	30	6.4	23.5	11	0	9	7.0	3.1

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN 07...	--	--	--	--	--	2500	2100	390	--	--
AUG 30...	0	<10	<10	<10	<10	2300	2200	150	14000	10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 07...	140	20	120	--	--	--	--	9	.51
AUG 30...	230	10	220	290	.00	0	20	7	.17

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02453000 BLACKWATER CREEK NEAR MANCHESTER, AL (Lat 33 54 30 Long 087 15 25)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
JUN												
08...	0830	100	104	6.4	23.0	--	--	--	--	--	--	--
15...	1215	60	98	7.5	23.5	39	23	.0	.0	6.6	5.5	2.3
AUG												
31...	0810	447	72	5.5	22.5	--	--	--	--	--	--	--
SEP												
04...	0950	816	98	6.8	24.0	33	19	.0	.0	5.8	4.4	2.8

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
JUN												
08...	--	--	--	--	19	0	16	12	26	--	--	--
15...	11	.2	3.6	1.3	20	0	16	1.0	25	1.7	.1	6.1
AUG												
31...	--	--	--	--	6	0	5	30	17	--	--	--
SEP												
04...	15	.2	4.4	1.6	16	0	13	4.1	24	3.2	.0	7.1

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
JUN												
08...	--	--	--	--	--	--	--	--	--	1100	270	830
15...	59	.09	9.56	100	--	--	--	--	--	1300	510	790
AUG												
31...	--	--	--	--	0	<10	<10	<10	<10	2500	2400	150
SEP												
04...	58	.08	128	340	--	--	--	--	--	1000	710	290

DATE	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN											
08...	--	--	90	20	70	--	--	--	--	6	1.6
15...	--	--	40	10	30	--	--	--	--	4	.65
AUG											
31...	8600	20	330	150	180	520	.00	0	20	29	35
SEP											
04...	--	--	170	40	130	--	--	--	--	16	35

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02453020 BLACKWATER CREEK NEAR JASPER, AL (Lat 33 53 05 Long 087 09 41)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
08...	1115	135	109	6.8	24.5	20	0	16	5.1	28
SEP										
05...	1200	300	92	6.8	23.5	16	0	13	4.1	20

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
08...	--	--	--	--	--	880	340	540	--	--
SEP										
05...	0	<10	10	20	30	650	--	--	29000	20

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
08...	50	10	40	--	--	--	--	5	1.8
SEP									
05...	100	--	--	780	.00	0	120	12	9.7

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02453384 CANE CREEK AT CAMERON, AL (Lat 33 47 54 Long 087 16 35)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
08...	1000	3.5	40	7.7	21.5	125	0	103	4.0	81
AUG										
29...	1000	.00	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
08...	--	--	--	--	--	280	200	80	--	--
AUG										
29...	0	<10	40	<10	20	--	--	--	34000	20

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
08...	30	0	30	--	--	--	--	6	.06
AUG									
29...	--	--	--	800	.00	0	60	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02453828 WEST FORK LOST CREEK NEAR TOWNLEY, AL (Lat 33 50 28 Long 087 27 23)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
AUG 31...	1540	1.0	57	6.8	25.0	20	15	0	.0	.0	2.5

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
AUG 31...	2.1	4.1	35	.5	5.6	1.5	22	0	18	5.6

DATE	SULFIDE DIS-SOLVED (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
AUG 31...	.0	7.7	2.1	.1	46	41	.06	.12	.01	230

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
AUG 31...	210	20	620	470	150	70	10	60	7	.02

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02453839 LOST CREEK EAST OF CARBON HILL, AL (Lat 33 53 14 Long 087 29 52)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 07...	1000	16	505	6.4	22.0	--	--	--	--	--	--
AUG 30...	1345	6.7	690	6.9	25.0	--	--	--	--	--	--
SEP 04...	1105	6.7	530	6.8	23.0	5	220	140	.0	.0	40

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN 07...	--	--	--	--	--	95	0	78	61	--	160
AUG 30...	--	--	--	--	--	130	0	107	26	--	230
SEP 04...	29	18	15	.5	3.4	97	0	80	25	.0	170

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)
JUN 07...	--	--	--	--	--	--	--	--	--	--
AUG 30...	--	--	--	--	--	--	--	--	--	--
SEP 04...	4.3	.1	7.9	342	337	.47	6.19	.69	150	130

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)
JUN 07...	--	--	--	--	--	--	470	380	90	--
AUG 30...	--	0	<10	40	20	20	330	280	50	4300
SEP 04...	20	--	--	--	--	--	450	390	60	--

DATE	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 07...	--	200	20	180	--	--	--	--	7	.31
AUG 30...	20	260	0	260	970	.00	0	100	13	.24
SEP 04...	--	--	0	370	--	--	--	--	6	.11

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02453900 CHEATHAM CREEK NEAR CARBON HILL, AL (Lat 33 53 29 Long 087 26 59)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 15...	1415	.40	70	6.8	20.0	5	21	15	.0	.0	3.7
SEP 04...	1245	6.4	86	4.8	23.0	0	20	18	.0	.0	3.8

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 15...	2.9	2.6	20	.2	4.0	1.4	8	0	7	2.0	.0
SEP 04...	2.5	1.7	15	.2	3.0	1.3	2	0	2	51	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 15...	19	2.6	.1	8.1	--	45	.06	.05	.34	180
SEP 04...	27	2.6	.1	8.5	52	50	.07	.90	.31	1000

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 15...	150	30	630	490	140	170	10	160	9	.01
SEP 04...	30	970	290	110	180	--	0	500	1	.02

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02454000 LOST CREEK NEAR OAKMAN, AL (Lat 33 45 50 Long 087 21 30)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
07...	0930	56	315	6.9	22.5	54	0	44	11	91
AUG										
29...	1400	44	557	7.5	25.0	120	0	98	6.1	190

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)
JUN									
07...	--	--	--	--	--	750	640	110	--
AUG									
29...	0	<10	50	10	10	730	600	130	250000

DATE	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
07...	--	110	30	80	--	--	--	11	1.7
AUG									
29...	10	220	40	180	990	0	50	26	3.1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02454072 BLACK BRANCH NEAR OAKMAN, AL (Lat 34 44 17 Long 087 24 55)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
18...	1400	.06	1930	3.1	25.0	0	690	690	6.3	313	130
SEP											
04...	1045	12	1210	7.2	23.5	1	700	550	.0	.0	130

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
18...	89	66	17	1.1	71	4.6	0	0	0	.0	.0
SEP											
04...	91	35	10	.6	39	4.3	180	0	148	18	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
18...	1100	1.6	.4	36	--	1470	2.00	.24	.19	30000
SEP										
04...	610	2.2	.1	10	1040	982	1.41	33.7	2.5	1300

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
18...	3000	27000	2100	0	2000	11000	0	11000	6	.00
SEP										
04...	1200	100	650	640	10	1300	0	1300	16	.52

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02454095 CANE CREEK NEAR PARRISH, AL (Lat 33 41 15 Long 087 18 50)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 15...	1115	2.9	1510	7.5	21.0	5	800	660	.0	.0	140
SEP 04...	1430	38	670	6.9	24.0	5	340	280	.0	.0	63

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 15...	110	47	11	.7	52	4.9	170	0	139	8.6	.0
SEP 04...	45	20	11	.5	22	2.0	81	0	66	16	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 15...	760	3.4	.2	3.7	--	1170	1.59	9.16	3.4	90
SEP 04...	310	2.6	.1	12	498	499	.68	51.1	1.0	270

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 15...	50	40	110	110	1	80	40	40	12	.09
SEP 04...	210	60	310	280	30	--	0	520	5	.51

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02454155 WOLF CREEK AT ALABAMA HIGHWAY 102 NEAR TOWNLEY, AL (Lat 33 47 21 Long 087 31 20)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
AUG 31...	1415	3.3	41	6.7	24.0	80	12	0	.0	.0	2.2

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
AUG 31...	1.6	2.3	27	.3	3.5	1.2	16	0	13	5.1

DATE	SULFIDE DIS-SOLVED (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
AUG 31...	.0	6.3	1.0	.0	10	33	.05	.36	.04	950

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
AUG 31...	920	30	1700	1600	110	60	20	40	32	.29

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02454175 WOLF CREEK AT CORONA, AL (Lat 33 42 34 Long 087 28 39)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 14...	1120	1.8	230	6.6	21.0	5	72	47	.0	.0	13
SEP 05...	1050	66	125	6.3	23.0	40	48	34	.0	.0	8.7

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 14...	9.6	17	33	.9	19	1.7	30	0	25	12	.0
SEP 05...	6.4	4.2	16	.3	5.5	1.3	17	0	14	14	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 14...	79	1.9	.1	9.8	145	147	.20	.70	.08	170
SEP 05...	40	2.4	.0	12	89	84	.12	15.9	.04	700

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 14...	150	20	660	560	100	190	20	170	7	.03
SEP 05...	650	50	1600	1500	130	140	10	130	26	4.6

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02454185 BLUE WATER CREEK NEAR BERRY, AL (Lat 33 40 00 Long 087 29 49)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 14...	1330	.04	36	6.2	24.0	10	10	2	.0	.0	1.5
SEP 05...	1300	1.8	26	5.9	23.0	20	8	1	.0	.0	1.2

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 14...	1.5	1.8	26	.2	3.6	.8	10	0	8	10	.0
SEP 05...	1.1	1.6	29	.3	2.4	.8	8	0	7	16	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 14...	5.7	1.3	.0	9.5	26	27	.04	.00	.00	190
SEP 05...	5.4	1.5	.0	9.7	28	25	.04	.14	.00	220

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 14...	180	10	570	430	140	70	10	60	7	.00
SEP 05...	180	40	460	370	90	60	10	50	3	.01

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02454190 UNNAMED TRIBUTARY TO BLUE WATER CREEK NEAR OAKMAN, AL (Lat 33 39 46 Long 087 25 22)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
13...	1415	.04	380	5.9	26.0	3	160	150	.0	.0	24
SEP											
05...	1425	.52	250	5.9	24.0	5	110	100	.0	.0	16

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
13...	24	5.2	7	.2	7.2	2.0	14	0	11	28	.0
SEP											
05...	17	4.2	8	.2	5.8	1.6	8	0	7	16	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
13...	160	1.2	.1	14	279	244	.38	.03	.00	170
SEP										
05...	110	.9	.0	13	183	168	.25	.26	.02	140

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
13...	160	10	3900	600	3300	3600	200	3400	17	.00
SEP										
05...	110	30	540	290	250	--	0	630	9	.01

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02454200 WOLF CREEK NEAR OAKMAN, AL (Lat 33 40 20 Long 087 23 15)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
07...	1245	19	307	6.9	22.5	--	--	--	--	--	--
13...	1135	7.3	360	6.2	22.0	5	120	110	.0	.0	23
AUG											
30...	1000	6.2	295	6.2	25.0	--	--	--	--	--	--
SEP											
06...	1000	82	175	6.3	23.0	20	67	54	.0	.0	12

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
07...	--	--	--	--	--	--	20	0	16	4.0	--
13...	16	24	29	.9	29	4.9	22	0	18	22	.0
AUG											
30...	--	--	--	--	--	--	21	0	17	21	--
SEP											
06...	9.0	8.4	21	.4	9.9	1.5	16	0	13	13	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)
JUN											
07...	120	--	--	--	--	--	--	--	--	--	--
13...	150	1.8	.1	9.6	235	242	.32	4.63	.31	130	110
AUG											
30...	120	--	--	--	--	--	--	--	--	--	--
SEP											
06...	58	2.0	.1	12	122	112	.17	27.1	.33	490	440

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)
JUN										
07...	--	--	--	--	--	--	510	450	60	--
13...	20	--	--	--	--	--	340	300	40	--
AUG										
30...	--	0	<10	80	40	40	460	300	160	67000
SEP										
06...	50	--	--	--	--	--	1100	980	120	--

DATE	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
07...	--	--	0	240	--	--	--	--	12	.63
13...	--	260	30	230	--	--	--	--	14	.28
AUG										
30...	40	220	0	220	4500	.00	0	130	9	.15
SEP										
06...	--	190	20	170	--	--	--	--	18	4.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02454500 LOCUST FORK BELOW SNEAD, AL (Lat 34 08 00 Long 086 23 12)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN 08...	0820	130	103	7.1	21.0	34	0	28	4.3
AUG 31...	1030	14	238	7.9	23.0	98	0	80	2.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 08...	--	810	550	260	50	20	30	14	4.9
AUG 31...	6.9	220	120	100	50	20	30	8	.32

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02455000 LOCUST FORK NEAR CLEVELAND, AL (Lat 34 02 00 Long 086 34 00)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
08...	1420	280	97	7.3	22.0	24	0	20	1.9	13
AUG										
31...	1415	36	178	7.1	27.0	68	0	56	8.6	24

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
08...	--	--	--	--	--	1000	850	150	--	--
AUG										
31...	0	<10	<10	<10	<10	1800	1700	60	4600	20

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
08...	80	40	40	--	--	--	--	32	24
AUG									
31...	50	10	40	260	.00	0	10	10	.97

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02455204 BLACKBURN FORK NEAR REMLAP, AL (Lat 33 51 23 Long 086 33 47)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN									
08...	1010	163	41	6.9	25.5	12	0	10	2.4
AUG									
31...	1200	1.1	254	7.6	26.0	160	0	131	6.4

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
08...	6.5	170	130	40	20	10	10	--	--
AUG									
31...	8.2	630	560	70	80	30	50	11	.03

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02455270 CALVERT PRONG CREEK NEAR LOCUST FORK, AL (Lat 33 56 05 Long 086 34 57)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
08...	1310	165	146	7.3	23.5	52	0	43	4.2	19
AUG										
31...	1315	18	--	7.4	25.0	120	0	98	7.6	42

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
08...	--	--	--	--	--	870	700	170	--	--
AUG										
31...	2	<10	30	10	<10	250	200	50	21000	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
08...	90	30	60	--	--	--	--	19	8.5
AUG									
31...	70	40	30	680	.00	0	30	8	.39

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02455500 LOCUST FORK AT TRAFFORD, AL (Lat 33 49 49 Long 086 45 21)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN 08...	1200	1520	128	7.3	24.0	42	0	34	3.4

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 08...	18	1000	840	160	110	50	60	37	152

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02456000 TURKEY CREEK AT MORRIS, AL (Lat 33 44 25 Long 086 48 45)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
13...	1050	134	270	7.5	20.0	110	0	90	5.6	40
AUG										
29...	1430	70	228	8.1	25.0	82	0	67	1.0	35

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
13...	--	--	--	--	--	950	930	20	--	--
AUG										
29...	0	<10	20	20	<10	14000	14000	90	23000	20

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
13...	210	40	170	--	--	--	--	32	12
AUG									
29...	420	370	50	480	.00	0	80	714	135

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02456050 TURKEY CREEK UPSTREAM FROM KIMBERLY, AL (Lat 33 45 32 Long 086 49 37)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
13...	1215	141	320	8.0	22.0	110	0	90	1.8	55
AUG										
30...	1100	72	275	7.6	25.0	82	0	67	3.3	49

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
13...	--	--	--	--	--	910	870	40	--	--
AUG										
30...	0	<10	30	30	10	5900	5800	70	47000	30

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
13...	210	40	170	--	--	--	--	24	9.1
AUG									
30...	270	200	70	1100	.00	0	90	426	83

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02456330 CROOKED CREEK NEAR MORRIS, AL (Lat 33 44 10 Long 086 52 99)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
13...	1345	1.9	640	7.9	23.0	44	0	36	.9	230
AUG										
30...	1145	.92	850	7.1	27.5	52	0	43	6.6	380

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
13...	--	--	--	--	--	450	430	20	--	--
AUG										
30...	1	<10	<10	30	<10	270	220	50	16000	20

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
13...	1400	0	1400	--	--	--	--	16	.08
AUG									
30...	1600	100	1500	2200	.00	0	40	12	.03

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02457000 FIVEMILE CREEK AT KETONA, AL (Lat 33 36 05 Long 086 45 20)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
13...	0945	26	310	7.7	20.0	170	0	139	5.4	5.0
AUG										
29...	1330	16	290	8.0	26.0	170	0	139	2.7	6.2

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
13...	--	--	--	--	--	120	100	20	--	--
AUG										
29...	0	<10	70	<10	<10	730	700	30	3100	20

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
13...	10	0	10	--	--	--	--	12	.84
AUG									
29...	40	30	10	1800	.00	0	30	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02457700 FIVEMILE CREEK NEAR LINN CROSSING, AL (Lat 33 40 18 Long 086 57 52)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
14...	1100	67	620	7.2	22.5	140	0	115	14	160
AUG										
30...	1340	32	375	7.3	26.0	100	0	82	8.0	78

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
14...	--	--	--	--	--	330	300	30	--	--
AUG										
30...	2	<10	10	10	20	5500	5500	30	16000	10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
14...	130	20	110	--	--	--	--	11	2.0
AUG									
30...	220	170	50	270	.00	0	110	246	21

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462040 ROCK CREEK NEAR HOPKINS, AL (Lat 33 29 01 Long 087 06 14)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 18...	1100	23	1570	7.6	19.5	5	160	0	.0	.0	25
AUG 31...	1240	51	701	7.5	22.0	5	130	9	.0	.0	20

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 18...	24	340	82	12	340	4.9	490	6	412	20	.0
AUG 31...	19	98	62	3.8	100	3.7	140	0	115	7.3	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 18...	420	11	.6	9.1	---	1080	1.46	67.1	.45	150
AUG 31...	220	5.6	.3	9.5	453	448	.62	62.6	.56	4500

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)
JUN 18...	80	70	--	--	--	--	260	250	10	--
AUG 31...	4400	70	0	<10	30	10	13000	13000	20	27000

DATE	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 18...	--	370	30	340	--	--	--	--	13	.82
AUG 31...	10	770	280	490	370	.00	0	40	273	38

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462050 VALLEY CREEK AT TOADVINE ROAD NEAR OAK GROVE, AL (Lat 33 29 32 Long 087 09 47)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
04...	1110	208	655	8.0	24.5	170	0	139	2.7	160
AUG										
27...	1145	324	450	8.4	27.0	88	4	79	.6	100

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
04...	--	--	--	--	--	280	80	200	--	--
AUG										
27...	0	<10	20	20	10	2100	2100	50	2500	50

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
04...	270	0	270	--	--	--	--	7	3.9
AUG									
27...	170	150	20	820	.00	0	400	81	71

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462080 MUD CREEK NEAR OAK GROVE, AL (Lat 33 27 38 Long 087 11 52)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN									
04...	1330	24	910	6.0	24.0	9	0	7	14
AUG									
27...	1000	26	710	6.8	25.5	28	0	23	7.1

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
04...	440	160	40	120	6200	500	5700	2	.13
AUG									
27...	350	520	510	10	4500	500	4000	32	2.2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462255 UNNAMED TRIBUTARY TO WALKER COUNTY SHOAL CREEK NEAR TUTWILER SCHOOL, AL (Lat 33 34 21 Long 087 17 48)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
14...	1100	.94	43	6.9	20.5	5	12	3	.0	.0	1.9
SEP											
04...	1150	2.7	48	6.7	22.5	20	14	6	.0	.0	2.2

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
14...	1.8	3.0	32	.4	4.2	1.2	11	0	9	2.2	.1
SEP											
04...	2.0	2.4	26	.3	3.6	1.2	10	0	8	3.2	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
14...	7.3	1.9	.0	10	28	33	.04	.07	.04	110
SEP										
04...	9.9	1.7	.0	11	--	35	.05	.26	.08	210

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
14...	80	30	260	150	110	240	210	30	3	.01
SEP										
04...	170	40	350	290	60	20	0	20	19	.14

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462257 TRIBUTARY TO UNNAMED TRIBUTARY TO WALKER COUNTY SHOAL CREEK NEAR TUTWILER SCHOOL, AL
(Lat 33 34 24 Long 087 17 53)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 14...	1200	.20	42	6.9	20.5	20	12	2	.0	.0	2.1
SEP 04...	1600	.03	39	7.0	22.0	40	12	1	.0	.0	2.2

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 14...	1.6	2.7	31	.3	3.8	1.1	12	0	10	2.4	.0
SEP 04...	1.5	2.3	28	.3	3.4	1.1	13	0	11	2.1	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 14...	6.7	1.4	.0	12	32	34	.04	.02	.04	430
SEP 04...	6.4	1.4	.0	12	--	33	.04	.00	.00	220

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 14...	380	50	800	760	40	10	2	8	11	.01
SEP 04...	160	60	350	290	60	--	0	6	10	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462480 BIG YELLOW CREEK NEAR WHITSON, AL (Lat 33 34 18 Long 087 24 10)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
05...	0830	2.9	42	6.9	21.0	16	0	13	3.2	4.0
AUG										
30...	1300	.81	46	6.7	26.5	18	0	15	5.7	3.6

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
05...	--	--	--	--	--	880	590	290	--	--
AUG										
30...	0	<10	40	20	20	930	370	560	36000	20

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
05...	50	10	40	--	--	--	--	8	.06
AUG									
30...	--	0	70	500	.00	0	60	2	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462490 LITTLE YELLOW CREEK NEAR WHITSON, AL (Lat 33 34 01 Long 087 24 37)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 08...	1200	5.8	151	6.5	25.5	5	56	53	.0	.0	8.8
AUG 28...	0850	2.8	157	5.3	24.0	3	54	52	.0	.0	8.3

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 08...	8.3	2.3	8	.1	3.8	1.5	4	0	3	2.0	.0
AUG 28...	8.0	1.6	6	.1	3.7	2.1	2	0	2	16	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 08...	58	1.7	.0	7.8	--	92	.13	1.44	.11	190
AUG 28...	63	1.1	.1	5.7	95	93	.13	.72	.18	130

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 08...	160	30	460	420	40	1900	0	1900	6	.09
AUG 28...	110	20	190	160	30	2400	100	2300	8	.06

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462625 BLUE CREEK NEAR WINDHAM SPRINGS, AL (Lat 33 29 02 Long 087 28 18)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
08...	1500	4.4	260	--	25.0	10	110	99	.0	.0	20
AUG											
28...	1100	1.4	593	6.8	24.0	8	310	290	.0	.0	57

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
08...	15	4.0	7	.2	5.6	1.6	16	0	13	--	.0
AUG											
28...	41	6.6	4	.2	9.4	2.8	24	0	20	6.1	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
08...	100	1.6	.0	7.9	--	159	.22	1.89	.32	190
AUG										
28...	300	1.6	.1	7.2	471	429	.64	1.78	.16	240

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
08...	160	30	540	520	20	190	0	190	10	.12
AUG										
28...	220	20	340	330	10	850	0	850	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462650 BLUE CREEK NEAR SPENCER HILL, AL (Lat 33 27 01 Long 087 24 51)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
08...	0915	7.4	155	7.2	24.0	5	60	48	.0	.0	10
AUG											
28...	1310	2.7	407	7.0	28.0	5	190	180	.0	.0	33

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
08...	8.5	2.8	9	.2	4.0	1.2	14	0	11	1.4	.0
AUG											
28...	26	5.0	5	.2	7.3	2.3	16	0	13	2.6	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
08...	56	1.7	.0	7.3	104	95	.14	2.08	.16	120
AUG										
28...	180	1.7	.1	5.3	284	261	.39	2.07	.17	910

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
08...	90	30	310	220	90	30	0	30	6	.12
AUG										
28...	900	10	2400	2400	10	180	30	150	10	.07

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462685 DAVIS CREEK AT ABERNANT, AL (Lat 33 17 13 Long 087 11 50)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
05...	1400	5.6	195	6.8	22.0	76	0	62	19	31
AUG										
28...	1305	2.7	220	6.7	24.0	93	0	76	30	22

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
05...	--	--	--	--	--	750	290	460	--	--
AUG										
28...	1	<10	<10	<10	<10	750	470	280	900	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
05...	110	0	110	--	--	--	--	24	.37
AUG									
28...	140	60	80	40	.00	0	<10	25	.18

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462800 DAVIS CREEK BELOW ABERNANT, AL (Lat 33 18 30 Long 087 13 10)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
06...	0850	16	170	6.3	22.0	40	0	33	32	47
AUG										
29...	0820	6.3	270	6.6	23.0	53	0	43	21	75

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
06...	--	--	--	--	--	820	440	380	--	--
AUG										
29...	0	<10	20	40	<10	750	440	310	12000	40

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
06...	270	10	260	--	--	--	--	5	.22
AUG									
29...	460	30	430	1500	.00	0	50	8	.14

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462812 HANNAH MILL CREEK NEAR BURCHFIELD, AL (Lat 33 19 32 Long 087 15 22)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 05...	0815	5.0	1040	3.5	18.5	0	410	410	2.0	99	60
AUG 27...	0830	4.4	990	3.1	23.0	40	390	390	2.1	104	59

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN 05...	62	17	8	.4	20	2.8	0	0	0	.0
AUG 27...	58	18	9	.4	21	2.7	0	0	0	.0

DATE	SULFIDE DIS-SOLVED (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
JUN 05...	.0	520	1.7	.2	16	805	716	1.09	10.9	.20
AUG 27...	.0	500	1.9	.2	17	--	660	.90	7.84	.29

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 05...	7400	100	7300	8400	1000	7400	0	20000	48	.65
AUG 27...	10000	900	9100	7600	5300	2300	0	19000	247	2.9

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462828 CANE CREEK NEAR SEARLES, AL (Lat 33 21 08 Long 087 18 46)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)
JUN 05...	1045	1.2	716	3.7	20.5	5	300	300	2.0	99
AUG 27...	1010	.36	880	3.5	24.5	5	390	390	1.7	84

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
JUN 05...	51	42	3.5	2	.1	8.1	4.6	0	0	0
AUG 27...	67	54	5.0	3	.1	12	6.8	0	0	0

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
JUN 05...	.0	.0	340	.9	.2	38	--	493	.77	1.85
AUG 27...	.0	.0	430	1.4	.3	51	668	630	.91	.65

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN 05...	3.1	0	8300	120	50	70	3100	200	2900
AUG 27...	9.0	0	8600	210	150	60	4900	500	4400

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462840 DAVIS CREEK NEAR ANTIOCH CHURCH NEAR SEARLES, AL (Lat 33 23 20 Long 087 18 30)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN											
05...	1115	44	440	6.7	23.0	--	--	20	0	16	6.4
AUG											
28...	1030	15	639	4.2	26.0	.0	.0	0	0	0	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)
JUN										
05...	180	--	--	--	--	--	240	210	30	--
AUG										
28...	300	1	<10	<10	10	<10	100	30	70	6900

DATE	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
05...	--	2200	0	2100	--	--	--	--	2	.24
AUG										
28...	<10	--	0	100	380	.00	0	30	5	.20

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462970 YELLOW CREEK NEAR WINDHAM SPRINGS, AL (Lat 33 25 23 Long 087 27 49)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 11...	1130	.70	11	5.2	20.5	30	2	0	.0	.0	.4

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 11...	.3	.7	38	.2	.2	5	0	4	50	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 11...	2.2	1.2	.0	5.2	13	13	.02	.02	.00	160

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 11...	150	10	980	760	220	80	0	70	5	.01

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462973 TRIBUTARY TO YELLOW CREEK NEAR WINDHAM SPRINGS, AL (Lat 33 25 07 Long 087 27 21)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 11...	0930	.78	9	4.6	18.0	20	1	1	.0	.0	.2

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 11...	.1	.7	57	.3	.2	0	0	0	.0	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 11...	2.6	1.1	.0	5.8	14	11	.02	.03	.00	150

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 11...	100	50	380	230	150	20	0	20	6	.01

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462980 YELLOW CREEK ABOVE NORTHPORT, AL (Lat 33 23 26 Long 087 28 30)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)
OCT											
05...	0845	3.8	10	5.4	14.5	50	--	2	0	.0	.0
NOV											
06...	1200	2.2	8	5.3	17.0	--	--	--	--	.0	.0
JAN											
29...	1100	6.6	13	--	4.5	--	12.5	--	--	.0	.0
MAR											
01...	1110	4.2	15	5.6	12.0	--	9.8	--	--	.0	.0
15...	1000	7.2	12	5.7	10.5	20	10.7	2	0	.0	.0
APR											
30...	1100	8.8	11	5.5	13.5	30	9.8	2	1	.0	.0
MAY											
23...	1130	6.6	11	5.8	18.5	--	8.4	--	--	.0	.0
JUN											
05...	1230	7.5	11	6.2	18.5	--	--	--	--	--	--
AUG											
01...	0930	4.2	10	5.4	22.5	45	8.0	2	0	.0	.0
28...	0800	3.2	10	5.2	19.0	35	8.3	2	1	.0	.0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
OCT											
05...	.5	.3	1.0	43	.3	1.3	.3	3	0	2	19
NOV											
06...	--	--	--	--	--	--	--	2	0	2	16
JAN											
29...	--	--	--	--	--	--	--	5	0	4	--
MAR											
01...	--	--	--	--	--	--	--	3	0	2	12
15...	.4	.3	.9	42	.3	1.3	.4	5	0	4	16
APR											
30...	.4	.3	.8	40	.2	1.1	.3	2	0	2	10
MAY											
23...	--	--	--	--	--	--	--	2	0	2	5.1
JUN											
05...	--	--	--	--	--	--	--	3	0	2	3.0
AUG											
01...	.4	.3	.8	40	.2	1.1	.3	2	0	2	13
28...	.4	.2	.8	46	.3	1.0	.2	1	0	1	10

DATE	SULFIDE DIS-SOLVED (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)
OCT											
05...	.0	.2	1.3	.0	5.6	11	.03	.23	.01	.01	--
NOV											
06...	--	.8	--	--	--	--	--	--	--	--	--
JAN											
29...	--	2.3	--	--	--	--	--	--	--	--	--
MAR											
01...	--	2.5	--	--	--	--	--	--	--	--	--
15...	.0	1.1	1.3	.0	5.4	12	.02	.23	.01	.01	--
APR											
30...	.0	1.2	1.3	.0	5.0	10	.01	.24	.00	.00	.00
MAY											
23...	--	.8	--	--	--	--	--	--	--	--	--
JUN											
05...	--	1.1	--	--	--	--	--	--	--	--	--
AUG											
01...	.0	.7	1.2	.0	5.9	11	.01	.12	--	.03	.09
28...	.0	.4	1.3	.0	6.1	10	.02	.16	.00	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462980 YELLOW CREEK ABOVE NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	BORON, RECOV. FM BOTTOM MATERIAL (UG/G AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)
OCT											
05...	--	--	30	--	--	--	--	--	--	--	--
MAR											
15...	120	80	40	--	--	--	--	--	--	--	--
APR											
30...	140	100	40	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	190	140	50	900	1	1	0	20	7	0	0
28...	260	220	40	--	--	--	--	--	--	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
APR											
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	1	<10	0	30	<10	0	0	0	<10	5	1
28...	--	--	--	--	--	--	--	--	--	--	--

DATE	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)
OCT											
05...	--	--	--	--	80	--	--	--	--	--	--
MAR											
15...	--	--	460	390	70	--	--	--	--	--	--
APR											
30...	--	--	530	470	60	--	--	--	--	--	--
JUN											
05...	--	--	780	650	130	--	--	--	--	--	--
AUG											
01...	4	<10	900	800	100	5000	2	1	1	10	0
28...	--	--	640	490	150	--	--	--	--	--	--

DATE	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL (UG/L AS SE)
OCT											
05...	--	--	--	--	0	--	--	--	--	--	--
MAR											
15...	--	--	30	0	30	--	--	--	--	--	--
APR											
30...	--	--	--	0	30	--	--	--	--	--	--
JUN											
05...	--	--	30	10	20	--	--	--	--	--	--
AUG											
01...	0	0	50	30	20	60	<.5	.0	<.5	.09	0
28...	--	--	30	10	20	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462980 YELLOW CREEK ABOVE NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR)	STRONTIUM, SUSPENDED RECOV. (UG/L AS SR)	STRONTIUM, DISSOLVED (UG/L AS SR)	STRONTIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
APR											
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	0	0	0	10	7	3	<10	30	10	20	<10
28...	--	--	--	--	--	--	--	--	--	--	--

DATE	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)	CARBON, ORGANIC TOTAL (MG/L AS C)	PHENOLS (UG/L)
AUG												
01...	<.4	<.3	<.4	<.3	.5	<.4	.5	<.4	.05	.19	13	2

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT				
05...	0845	3.8	6	.06
MAR				
15...	1000	7.2	3	.06
APR				
30...	1100	8.8	5	.12
MAY				
23...	1130	6.6	6	.11
JUN				
05...	1230	7.5	16	.32
AUG				
28...	0800	3.2	4	.03

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462980 YELLOW CREEK ABOVE NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JUN 6,78	JUL 12,78	AUG 9,78	SEP 1,78	OCT 5,78	NOV 13,78
TIME	0845	1030	0930	0815	1145	1230
TOTAL COUNT	396	424	299	327	288	969
DIVERSITY: PHYLUM	0.0	0.0	0.0	0.0	0.0	0.0
.CLASS	0.0	0.0	0.1	0.0	0.0	0.0
..ORDER	2.0	2.1	2.4	1.8	1.8	2.1
...FAMILY	2.5	2.8	3.1	2.4	2.5	2.8
....GENUS	4.0	3.6	4.4	4.3	3.9	3.6
....GENUS-INSECTA	4.0	3.6	4.3	4.3	3.9	3.6
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA						
.OLIGOCHAETA						
..UNKNOWN ORDER						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	--	1	--	--
ARTHROPODA (ARTHROPODS)						
.ARACHNIDA						
..HYDRACARINA						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	2	--	--	--
.CRUSTACEA						
..DECAPODA						
...ASTACIDAE						
....UNKNOWN GENUS	--	--	--	--	--	--
.INSECTA						
..COLEOPTERA						
...DRYOPIDAE						
....HELICHUS	--	--	--	--	--	--
...ELMIDAE						
....ANCYRONYX	--	--	--	--	--	--
....GONIELMIS	--	--	4	--	1	--
....MICROCYLLOEPUS	--	1	--	--	--	--
....OPTIOSERVUS	14	4	6	9	18	21
....OULIMNIUS	34	33	13	20	23	40
....PROMORESIA	--	1	--	--	--	--
....STENELMIS	47	72	7	15	12	36
...PTILODACTYLIDAE						
....ANCHYTARSUS	--	--	--	10	--	59
.....A.BICOLOR	23	24	17	--	33	--
..DIPTERA						
...CERATOPOGONIDAE=HELEIDAE						
....UNKNOWN GENUS	--	--	--	--	--	3
...CHIRONOMIDAE						
....ABLABESMYIA	1	--	4	3	4	--
....CHAETOCLADIUS	--	--	--	4	3	2
....CHIRONOMUS	--	--	--	--	--	--
....CLADOTANYTARSUS	--	--	--	--	--	--
....CONCHAPELOPIA	2	17	9	--	--	--
....CONCHAPELOPIA,ARCTO,RHEO	--	--	--	27	8	65
....CORYNONEURA	--	--	--	--	--	--
....CRICOTOPUS	17	--	--	24	--	--
....CRYPTOCHIRONOMUS	--	--	--	--	--	--
....DEMICRYPTOCHIRONOMUS	--	--	--	--	--	--
....EUKIEFFERIELLA	18	87	4	4	16	277
....GLYPTOTENDIPES	--	--	--	--	--	--
....LABRUNDINIA	--	--	2	--	--	--
....LARSIA	1	--	--	--	--	--
....MICROPSECTRA	16	--	9	39	12	--
....MICROTENDIPES	--	--	--	--	--	--
....NILOTANYPUS	--	--	--	--	--	--
....ORTHOCLADIUS	4	--	2	--	--	12
....PAGASTIELLA	--	--	--	--	--	--
....PARAMETRIOCNEMUS	--	--	--	--	--	--
....PARATANYTARSUS	--	--	2	14	--	--
....PENTANEURA	1	--	--	9	--	--
....POLYPEDILUM	20	42	11	8	15	--
....PRODIAMESA	--	--	--	--	--	--
....PSECTROCLADIUS	2	3	3	13	66	2
....PSEUDOCHIRONOMUS	--	--	--	--	--	--
....RHEOCRICOTOPUS	--	--	--	35	6	4
....RHEOTANYTARSUS	14	--	19	--	--	--
....SMITTIA	--	--	--	--	1	7
....STEMPELLINA	--	--	--	--	--	--
....STEMPELLINELLA	--	--	--	--	--	--
....STENOCHIRONOMUS	--	--	1	--	1	--
....SYMPOTTHASTIA	--	--	--	--	--	--
....TANYTARSUS	9	--	--	--	--	--
....THIENEMANNIELLA	1	--	--	--	--	13

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462980 YELLOW CREEK ABOVE NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	JUN 6,78 0845	JUL 12,78 1030	AUG 9,78 0930	SEP 1,78 0815	OCT 5,78 1145	NOV 13,78 1230
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
....TRICHOCLADIUS	42	--	26	--	--	--
....TRISSOCLADIUS	--	--	--	--	--	--
....UNKN ORTHOCLADIINAE #1	--	--	--	--	--	--
....UNKNOWN GENUS #1	--	--	--	--	--	--
....XENOCHIRONOMUS	--	--	--	--	--	--
....ZAVRELIA	--	--	--	--	--	--
....ZAVRELIMYIA	--	--	1	1	--	--
...EMPIDIDAE						
....HEMERODROMIA	--	3	--	--	--	6
....UNKNOWN GENUS	--	--	--	--	--	--
...SIMULIIDAE						
....PROSIMULIUM	--	--	--	--	--	--
....SIMULIUM	16	17	15	7	11	84
...TABANIDAE						
....TABANUS	3	--	--	--	1	--
...TIPULIDAE						
....ANTOCHA	--	2	1	--	--	--
....DICRANOTA	--	--	3	--	--	--
....HEXATOMA	--	--	--	6	2	--
....TIPULA	--	--	--	--	--	--
..EPHEMEROPTERA						
...BAETIDAE						
....BAETIS	--	--	--	5	--	--
...HEPTAGENIIDAE						
....STENONEMA	43	24	41	34	10	91
...LEPTOPHLEBIIDAE						
....LEPTOPHLEBIA	--	1	--	--	--	--
....PARALEPTOPHLEBIA	--	--	--	--	--	--
...SIPHLONURIDAE						
....AMELETUS	--	--	--	--	--	6
..MEGALOPTERA						
...CORYDALIDAE						
....CHAULIODES	--	--	4	--	--	--
....CORYDALUS	--	--	--	2	4	8
.....C.CORNUTUS	--	7	3	--	--	--
....NIGRONIA	--	13	4	2	1	2
...SIALIDAE						
....SIALIS	--	--	--	1	2	2
..PLECOPTERA						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	--	--	--	--
...CHLOROPERLIDAE						
....HASTAPERLA	37	32	27	--	--	--
...LEUCTRIDAE						
....LEUCTRA	--	--	--	3	4	--
...PELTOPERLIDAE						
....PELTOPERLA	--	4	3	2	3	--
...PERLIDAE						
....(NEO)PHASGANOPHORA	--	--	--	--	--	--
....ACRONEURIA	13	17	26	16	12	58
....NEOPERLA	--	--	--	--	--	--
...TAENIOPTERYGIDAE						
....TAENIOPTERYX	--	--	--	--	--	73
..TRICHOPTERA						
...BRACHYCENTRIDAE						
....MICRASEMA	--	--	1	3	--	--
....UNKNOWN GENUS	--	--	--	--	--	--
...HYDROPSYCHIDAE						
....CHEUMATOPSYCHE	18	19	22	2	18	75
....DIPLECTRONA	--	--	--	--	--	--
....HYDROPSYCHE	--	--	4	1	--	14
...HYDROPTILIDAE						
....HYDROPTILA	--	--	3	7	--	1
...LEPTOCERIDAE						
....TRIAENODES	--	--	--	--	--	1
...LIMNEPHILIDAE						
....UNKNOWN GENUS	--	--	--	--	--	--
...MOLANNIDAE						
....MOLANNA	--	--	--	--	--	--
...ODONTOCERIDAE						
....PSILOTRETA	--	--	--	--	--	--
...PHILOPOTAMIDAE						
....CHIMARRA	--	--	--	--	--	--
...PSYCHOMYIIDAE						
....UNKNOWN GENUS	--	--	--	--	--	--
...RHYACOPHILIDAE						
....RHYACOPHILA	--	1	--	--	1	7

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462980 YELLOW CREEK ABOVE NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	DEC 7,78	JAN 29,79	MAR 1,79	MAR 15,79	APR 30,79
TIME	1230	1100	1110	1000	1100
TOTAL COUNT	182	249	413	378	1962
DIVERSITY: PHYLUM	0.0	0.1	0.0	0.0	0.0
.CLASS	0.0	0.1	0.0	0.0	0.6
..ORDER	2.1	1.8	1.8	1.2	1.7
...FAMILY	2.7	2.8	3.0	2.2	2.7
....GENUS	4.2	3.9	4.6	2.7	3.5
....GENUS-INSECTA	4.2	3.8	4.6	2.7	3.4
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	3	--	--	--
ARTHROPODA (ARTHROPODS)					
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	280
.CRUSTACEA					
..DECAPODA					
...ASTACIDAE					
....UNKNOWN GENUS	--	1	--	--	--
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	2	1	--	--	--
...ELMIDAE					
....ANCYRONYX	--	1	--	--	--
....GONIELMIS	--	--	--	--	--
....MICROCYLLOEPUS	--	7	--	--	--
....OPTIOSERVUS	23	14	8	--	16
....OULIMNIUS	26	10	3	--	32
....PROMORESIA	--	--	--	--	--
....STENELMIS	3	3	31	--	16
...PTILODACTYLIDAE					
....ANCHYTARSUS	--	19	--	--	56
.....A.BICOLOR	7	--	13	27	--
..DIPTERA					
...CERATOPOGONIDAE=HELEIDAE					
....UNKNOWN GENUS	--	--	11	--	88
...CHIRONOMIDAE					
....ABLABESMYIA	1	--	--	--	--
....CHAETOCLADIUS	8	2	13	19	--
....CHIRONOMUS	--	--	1	--	--
....CLADOTANYTARSUS	--	--	9	--	24
....CONCHAPELOPIA	8	--	20	21	12
....CONCHAPELOPIA,ARCTO,RHEO	--	22	--	--	--
....CORYNONEURA	2	--	3	--	12
....CRICOTOPUS	--	1	7	1	--
....CRYPTOCHIRONOMUS	--	--	1	--	--
....DEMICRYPTOCHIRONOMUS	1	--	--	--	8
....EUKIEFFERIELLA	4	54	14	22	28
....GLYPTOTENDIPES	--	--	2	--	--
....LABRUNDINIA	--	--	--	--	--
....LARSIA	1	--	--	--	--
....MICROPSECTRA	4	12	13	--	260
....MICROTENDIPES	3	--	5	--	--
....NILOTANYPUS	--	--	--	--	4
....ORTHOCLADIUS	1	--	--	--	16
....PAGASTIELLA	--	--	--	--	4
....PARAMETRIOCNEMUS	--	--	--	--	32
....PARATANYTARSUS	--	--	2	--	--
....PENTANEURA	--	--	--	--	--
....POLYPEDILUM	1	1	4	--	84
....PRODIAMESA	--	--	3	--	--
....PSECTROCLADIUS	3	--	--	--	--
....PSEUDOCHIRONOMUS	--	--	2	--	--
....RHEOCRICOTOPUS	3	1	--	3	--
....RHEOTANYTARSUS	--	--	3	--	--
....SMITTIA	13	3	--	--	--
....STEMPELLINA	1	1	3	--	--
....STEMPELLINELLA	--	--	--	--	4
....STENOCHIRONOMUS	--	1	--	--	--
....SYMPOTTHASTIA	--	--	--	--	4
....TANYTARSUS	2	--	8	--	28
....THIENEMANNIELLA	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462980 YELLOW CREEK ABOVE NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	DEC 7,78 1230	JAN 29,79 1100	MAR 1,79 1110	MAR 15,79 1000	APR 30,79 1100
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
....TRICHOCLADIUS	--	--	--	--	--
....TRISSOCLADIUS	--	--	--	2	--
....UNKN ORTHOCLADIINAE #1	--	--	--	1	--
....UNKNOWN GENUS #1	--	--	--	--	16
....XENOCHIRONOMUS	--	--	--	1	--
....ZAVRELIA	--	--	23	--	--
....ZAVRELIMYIA	--	--	--	--	--
...EMPIDIDAE					
....HEMERODROMIA	--	--	3	--	--
....UNKNOWN GENUS	--	1	--	--	--
...SIMULIIDAE					
....PROSIMULIUM	--	--	52	--	--
....SIMULIUM	5	35	43	203	520
...TABANIDAE					
....TABANUS	1	--	--	--	--
...TIPULIDAE					
....ANTOCHA	--	--	--	--	--
....DICRANOTA	1	3	--	18	--
....HEXATOMA	--	--	--	--	--
....TIPULA	1	2	--	--	--
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	--	--	--	3	--
...HEPTAGENIIDAE					
....STENONEMA	13	3	14	3	--
...LEPTOPHLEBIIDAE					
....LEPTOPHLEBIA	--	--	--	--	--
....PARALEPTOPHLEBIA	--	--	29	--	--
...SIPHLONURIDAE					
....AMELETUS	--	1	--	--	--
..MEGALOPTERA					
...CORYDALIDAE					
....CHAULIODES	--	--	--	--	--
....CORYDALUS	--	3	--	--	--
.....C.CORNUTUS	1	--	3	1	--
....NIGRONIA	--	--	--	--	--
...SIALIDAE					
....SIALIS	--	--	1	1	4
..PLECOPTERA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	2	--	160
...CHLOROPERLIDAE					
....HASTAPERLA	--	--	--	--	--
...LEUCTRIDAE					
....LEUCTRA	--	--	--	4	--
...PELTOPERLIDAE					
....PELTOPERLA	--	4	2	1	4
...PERLIDAE					
....(NEO)PHASGANOPHORA	12	1	21	27	--
....ACRONEURIA	2	25	--	--	218
....NEOPERLA	--	--	5	--	--
...TAENIOPTERYGIDAE					
....TAENIOPTERYX	--	--	--	--	--
..TRICHOPTERA					
...BRACHYCENTRIDAE					
....MICRASEMA	--	--	--	--	--
....UNKNOWN GENUS	--	--	1	--	--
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	25	7	22	9	--
....DIPLECTRONA	--	--	1	1	--
....HYDROPSYCHE	--	3	--	2	32
...HYDROPTILIDAE					
....HYDROPTILA	--	--	--	--	--
...LEPTOCERIDAE					
....TRIAENODES	--	--	--	--	--
...LIMNEPHILIDAE					
....UNKNOWN GENUS	--	--	1	1	--
...MOLANNIDAE					
....MOLANNA	1	--	--	--	--
...ODONTOCERIDAE					
....PSILOTRETA	--	--	6	--	--
...PHILOPOTAMIDAE					
....CHIMARRA	--	--	--	1	--
...PSYCHOMYIIDAE					
....UNKNOWN GENUS	--	--	--	1	--
...RHYACOPHILIDAE					
....RHYACOPHILA	3	4	5	5	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462985 TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL (Lat 33 23 18 Long 087 27 51)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
05...	1230	1.9	8	6.4	15.5	30	8.5	2	0	.0	.0	.3
NOV												
06...	1230	1.6	9	5.2	16.0	--	--	--	--	.0	.0	--
JAN												
29...	1200	5.8	13	--	5.5	--	12.0	--	--	.0	.0	--
MAR												
01...	1230	6.6	14	6.9	13.0	--	9.8	--	--	.0	.0	--
15...	1200	5.9	11	5.7	10.5	10	11.0	2	1	.0	.0	.4
APR												
30...	1300	4.4	10	5.5	14.0	15	10.0	3	1	.0	.0	.4
MAY												
23...	1230	3.9	10	5.2	18.0	--	8.9	--	--	.0	.0	--
JUN												
05...	1145	3.6	10	5.8	18.0	--	--	--	--	--	--	--
AUG												
01...	1045	--	8	5.4	21.0	25	8.0	1	0	.0	.0	.3
28...	0930	2.1	8	5.3	20.0	25	9.0	2	1	.0	.0	.3

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
OCT											
05...	.2	.9	52	.3	1.1	.2	3	0	2	1.9	.0
NOV											
06...	--	--	--	--	--	--	2	0	2	20	--
JAN											
29...	--	--	--	--	--	--	6	0	5	--	--
MAR											
01...	--	--	--	--	--	--	4	0	3	.8	--
15...	.3	.8	40	.2	1.1	.3	2	0	2	6.4	.0
APR											
30...	.4	.8	37	.2	1.1	.3	2	0	2	10	.2
MAY											
23...	--	--	--	--	--	--	2	0	2	20	--
JUN											
05...	--	--	--	--	--	--	3	0	2	7.6	--
AUG											
01...	.1	.9	58	.4	1.2	.2	2	0	2	13	.0
28...	.3	.9	45	.3	1.2	.3	1	0	1	8.0	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)
OCT											
05...	1.3	1.3	.0	6.3	--	14	.02	.07	.00	.00	--
NOV											
06...	.8	--	--	--	--	--	--	--	--	--	--
JAN											
29...	2.8	--	--	--	--	--	--	--	--	--	--
MAR											
01...	2.4	--	--	--	--	--	--	--	--	--	--
15...	.8	1.3	.0	5.8	15	11	.02	.24	.00	.01	--
APR											
30...	1.3	1.3	.0	5.6	--	11	.01	.13	.00	.00	.00
MAY											
23...	.8	--	--	--	--	--	--	--	--	--	--
JUN											
05...	1.8	--	--	--	--	--	--	--	--	--	--
AUG											
01...	1.2	1.1	.0	6.5	--	11	.01	.06	.03	.01	.03
28...	2.1	1.2	.0	6.8	14	13	.02	.08	.01	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462985 TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	BORON, RECOV. FM BOTTOM MATERIAL (UG/G AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)
OCT											
05...	--	--	40	--	--	--	--	--	--	--	--
MAR											
15...	110	60	50	--	--	--	--	--	--	--	--
APR											
30...	100	40	60	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	150	90	60	270	1	1	0	10	2	0	0
28...	180	130	50	--	--	--	--	--	--	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
APR											
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	0	<10	0	10	<10	0	0	0	<10	2	1
28...	--	--	--	--	--	--	--	--	--	--	--

DATE	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)
OCT											
05...	--	--	--	--	50	--	--	--	--	--	--
MAR											
15...	--	--	160	110	50	--	--	--	--	--	--
APR											
30...	--	--	200	130	70	--	--	--	--	--	--
JUN											
05...	--	--	290	200	90	--	--	--	--	--	--
AUG											
01...	1	<10	320	230	90	1100	2	2	0	10	0
28...	--	--	260	140	120	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462985 TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)
OCT											
05...	--	--	--	--	0	--	--	--	--	--	--
MAR											
15...	--	--	20	0	20	--	--	--	--	--	--
APR											
30...	--	--	10	0	20	--	--	--	--	--	--
JUN											
05...	--	--	30	0	30	--	--	--	--	--	--
AUG											
01...	0	0	30	20	10	20	<.5	.0	<.5	.00	0
28...	--	--	20	10	9	--	--	--	--	--	--

DATE	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR)	STRON-TIUM, SUS-PENDED RECOV. (UG/L AS SR)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	STRON-TIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
APR											
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	0	0	0	20	20	3	<10	10	9	1	<10
28...	--	--	--	--	--	--	--	--	--	--	--

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)	CARBON, ORGANIC TOTAL (MG/L AS C)	PHENOLS (UG/L)
AUG												
01...	<.4	<.3	<.4	<.3	.6	.4	.6	.5	.08	.18	3.1	2

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
05...	1230	1.9	8	.04
NOV				
06...	1230	1.6	1	.00
15...	1200	5.9	10	.16
MAY				
23...	1230	3.9	6	.06
JUN				
05...	1145	3.6	4	.04
AUG				
28...	0930	2.1	5	.03

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462985 TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DIATOM SPECIES ENUMERATION

NOV. 28, 1977

ORGANISM NAME	CELLS/CM2	PER CENT
BACILLARIOPHYTA		
.BACILLARIOPHYCEAE		
..EUNOTIALES		
...EUNOTIACEAE		
....EUNOTIA		
.....E.CURVATA	7	2
.....E.EXIGUA	8	2
.....E.FLEXUOSA	5	1
.....E.PECTINALIS V.MINOR	410	91
..FRAGILARIALES		
...FRAGILARIACEAE		
....TABELLARIA		
.....T.FLOCCULOSA	7	2
..NAVICULALES		
...GOMPHONEMACEAE		
....GOMPHONEMA		
.....G.PARVULUM	11	2
...NAVICULACEAE		
....NAVICULA		
.....N.RADIOSA		0
....NEIDIUM		
.....N.APICULATUM		0

DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

ORDER 0.3
FAMILY 0.3
GENERA 0.3
SPECIES 0.6

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462985 TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	MAR 31,78	JUN 6,78	JUL 12,78	AUG 9,78	SEP 1,78	OCT 5,78
TIME	1200	1015	0900	1000	0900	1230
TOTAL COUNT	123	745	286	64	251	737
DIVERSITY: PHYLUM	0.0	0.0	0.1	0.0	0.2	0.0
.CLASS	0.0	0.0	0.1	0.0	0.2	0.0
..ORDER	2.0	1.7	1.4	0.7	1.7	1.4
...FAMILY	3.1	2.1	0.0	0.9	2.1	2.1
....GENUS	3.3	3.2	0.0	2.1	3.5	3.1
....GENUS-INSECTA	3.3	3.2	2.7	2.1	3.4	3.1
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA						
.OLIGOCHAETA						
..UNKNOWN ORDER	--	--	3	--	--	--
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	--	--	6	--
ARTHROPODA (ARTHROPODS)						
.CRUSTACEA						
..DECAPODA						
...ASTACIDAE						
....UNKNOWN GENUS	--	--	1	--	--	--
..ISOPODA						
...ASELLIDAE						
....ASELLUS	--	--	--	--	--	--
....LIRCEUS	--	--	--	--	--	--
.INSECTA						
..COLEOPTERA						
...DRYOPIDAE						
....HELICHUS	--	--	--	1	--	2
...ELMIDAE						
....ANCYRONYX						
.....A.VARIEGATA	--	--	--	--	--	--
....OPTIOSERVUS	2	136	102	18	71	216
....OULIMNIUS	39	94	88	32	58	203
....PROMORESIA	2	--	--	--	--	--
....STENELMIS	--	4	6	5	6	7
...PSEPHENIDAE						
....PSEPHENUS	--	1	--	--	1	2
...PTILODACTYLIDAE						
....ANCHYTARSUS	--	--	--	--	3	55
.....A.BICOLOR	16	32	17	--	--	--
..DIPTERA						
...CERATOPOGONIDAE=HELEIDAE						
....UNKNOWN GENUS	4	3	--	2	3	6
...CHIRONOMIDAE						
....ABLABESMYIA	--	5	--	--	--	--
....APSECTROTANYPUS	--	--	--	1	--	--
....CHAETOCLADIUS	--	--	--	--	4	19
....CLADOTANYTARSUS	--	--	--	--	--	--
....CONCHAPELOPIA	--	32	1	--	3	--
....CONCHAPELOPIA,ARCTO,RHEO	--	--	--	--	5	5
....CORYNONEURA	--	--	--	--	--	--
....CRICOTOPUS	--	6	--	--	--	--
....CRYPTOCHIRONOMUS	1	3	--	--	3	--
....DEMICRYPTOCHIRONOMUS	--	--	--	1	--	--
....EUKIEFFERIELLA	3	20	3	--	--	5
....LARSIA	--	--	--	--	--	--
....LAUTERBORNIELLA	--	--	--	--	--	--
....MICROPSECTRA	--	--	--	--	--	6
....NANOCLADIUS	--	--	--	--	--	--
....ORTHOCLADIUS	--	--	--	--	13	3
....PARACHIRONOMUS	--	--	2	--	--	--
....PARAMETRIOCNEMUS	--	--	--	--	--	--
....PARATANYTARSUS	--	--	--	--	13	--
....PENTANEURA	--	--	--	--	--	1
....POLYPEDILUM	--	101	2	--	13	110
....PSECTROCLADIUS	1	17	--	--	--	--
....PSUEDORTHOCLADIUS	--	--	--	--	--	--
....RHEOCRICOTOPUS	--	--	--	--	2	--
....RHEOTANYTARSUS	--	--	--	--	--	3
....ROBACKIA	--	--	--	--	--	--
....SMITTIA	--	--	--	--	--	8
....TANYTARSUS	--	7	--	--	--	--
....THIENEMANNIELLA	--	--	--	--	--	--
....TRICHOCLADIUS	--	29	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	1	--
....ZAVRELIA	--	--	--	--	--	--
...EMPIDIDAE						
....HEMERODROMIA	--	--	--	--	1	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462985 TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	MAR 31,78	JUN 6,78	JUL 12,78	AUG 9,78	SEP 1,78	OCT 5,78
TIME	1200	1015	0900	1000	0900	1230
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
...SIMULIIDAE						
....SIMULIUM	8	7	--	--	--	13
...TABANIDAE						
....TABANUS	--	4	--	--	--	1
...TIPULIDAE						
....ANTOCHA	--	--	8	--	1	--
....DICRANOTA	4	2	--	--	--	--
....HEXATOMA	--	--	2	--	4	9
....TIPULA	--	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--	--
..EPHEMEROPTERA						
...BAETIDAE						
....BAETIS	--	--	--	--	3	--
....PSEUDOCLOEON	--	--	--	--	5	--
....UNKNOWN GENUS	--	--	--	--	--	--
...HEPTAGENIIDAE						
....RHITHROGENA	--	--	--	--	--	--
....STENONEMA	13	10	11	--	4	9
...LEPTOPHLEBIIDAE						
....UNKNOWN GENUS	--	--	--	--	--	--
...SIPHLONURIDAE						
....AMELETUS	--	--	--	--	--	--
..HEMIPTERA						
...VELIIDAE						
....RHAGOVELIA	--	--	--	--	1	--
..MEGALOPTERA						
...CORYDALIDAE						
....NIGRONIA	7	--	2	--	--	4
...SIALIDAE						
....SIALIS	--	--	--	--	--	1
..ODONATA						
...AESHNIDAE						
....BOYERIA	--	--	1	--	--	1
..PLECOPTERA						
...CHLOROPERLIDAE						
....HASTAPERLA	10	--	23	2	--	--
....UNKNOWN GENUS	--	217	--	--	--	--
...LEUCTRIDAE						
....LEUCTRA	--	--	--	--	24	4
...PELTOPERLIDAE						
....PELTOPERLA	3	--	2	--	--	6
...PERLIDAE						
....(NEO)PHASGANOPHORA	--	7	7	--	--	--
....ACRONEURIA	8	6	--	2	1	18
....UNKNOWN GENUS	--	--	--	--	--	--
...PERLODIDAE						
....ISOGENUS	--	--	--	--	--	--
....ISOPERLA	1	--	--	--	--	--
...TAENIOPTERYGIDAE						
....TAENIOPTERYX	--	--	--	--	--	--
..TRICHOPTERA						
...CALAMOCERATIDAE						
....ANISOCENTROPUS	--	--	--	--	--	--
...GLOSSOSOMATIDAE						
....GLOSSOSOMA	--	--	--	--	--	--
...HYDROPSYCHIDAE						
....CHEUMATOPSYCHE	--	2	--	--	1	10
....DIPLECTRONA	--	--	--	--	--	--
....HYDROPSYCHE	--	--	--	--	--	2
...HYDROPTILIDAE						
....HYDROPTILA	--	--	--	--	1	--
....ORTHOTRICHIA	--	--	2	--	--	--
...LEPIDOSTOMATIDAE						
....LEPIDOSTOMA	--	--	--	--	--	--
...LIMNEPHILIDAE						
....NEOPHYLAX	--	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--	--
...PHILOPOTAMIDAE						
....DOLOPHILODES	--	--	--	--	--	--
....WORMALDIA	--	--	--	--	--	--
...POLYCENTROPODIDAE						
....POLYCENTROPUS	--	--	--	--	--	--
...RHYACOPHILIDAE						
....RHYACOPHILA	1	--	3	--	--	8

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462985 TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	NOV 13,78	JAN 29,79	MAR 1,79	MAR 15,79	MAR 31,79	APR 30,79
TIME	1330	1200	1230	1200	1200	1300
TOTAL COUNT	679	507	388	99	123	700
DIVERSITY: PHYLUM	0.0	0.0	0.0	0.0	0.0	0.4
.CLASS	0.0	0.0	0.0	0.0	0.0	0.4
..ORDER	0.8	1.2	1.2	1.0	2.0	2.0
...FAMILY	1.6	2.0	2.0	1.8	3.1	3.2
....GENUS	2.4	2.8	3.1	1.8	3.3	4.1
....GENUS-INSECTA	2.4	2.8	3.1	1.8	3.3	4.0
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA						
.OLIGOCHAETA						
..UNKNOWN ORDER	--	--	--	--	--	--
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	--	--	--	60
ARTHROPODA (ARTHROPODS)						
.CRUSTACEA						
..DECAPODA						
...ASTACIDAE						
....UNKNOWN GENUS	--	--	--	--	--	--
..ISOPODA						
...ASELLIDAE						
....ASELLUS	--	--	--	--	--	2
....LIRCEUS	1	1	--	--	--	--
.INSECTA						
..COLEOPTERA						
...DRYOPIDAE						
....HELICHUS	--	--	--	--	--	--
...ELMIDAE						
....ANCYRONYX						
.....A.VARIEGATA	--	--	22	--	--	--
....OPTIOSERVUS	78	43	137	--	2	--
....OULIMNIUS	377	226	--	67	39	116
....PROMORESIA	--	--	--	--	2	--
....STENELMIS	23	4	91	--	--	2
...PSEPHENIDAE						
....PSEPHENUS	2	3	13	10	--	34
...PTILODACTYLIDAE						
....ANCHYTARSUS	90	--	--	2	--	74
.....A.BICOLOR	--	47	23	--	16	--
..DIPTERA						
...CERATOPOGONIDAE=HELEIDAE						
....UNKNOWN GENUS	2	--	--	--	4	28
...CHIRONOMIDAE						
....ABLABESMYIA	--	--	1	--	--	--
....APSECTROTANYPUS	--	--	--	--	--	--
....CHAETOCLADIUS	1	5	--	--	--	--
....CLADOTANYTARSUS	--	--	6	--	--	18
....CONCHAPELOPIA	--	3	2	--	--	--
....CONCHAPELOPIA,ARCTO,RHEO	3	--	--	--	--	10
....CORYNONEURA	--	--	--	--	--	22
....CRICOTOPUS	--	--	--	--	--	--
....CRYPTOCHIRONOMUS	--	3	--	--	1	--
....DEMICRYPTOCHIRONOMUS	--	--	--	--	--	--
....EUKIEFFERIELLA	38	13	4	--	3	4
....LARSIA	--	1	--	--	--	--
....LAUTERBORNIELLA	--	--	1	--	--	--
....MICROPSECTRA	--	6	3	--	--	82
....NANOCLADIUS	--	--	3	--	--	--
....ORTHOCLADIUS	--	--	--	--	--	--
....PARACHIRONOMUS	--	--	--	--	--	--
....PARAMETRIOCNEMUS	--	--	--	--	--	4
....PARATANYTARSUS	--	--	--	--	--	--
....PENTANEURA	--	--	--	--	--	4
....POLYPEDILUM	--	5	--	--	--	46
....PSECTROCLADIUS	--	--	--	--	1	--
....PSUEDORTHOCLADIUS	--	--	9	--	--	--
....RHEOCRICOTOPUS	--	--	--	--	--	--
....RHEOTANYTARSUS	--	1	--	--	--	8
....ROBACKIA	--	--	7	--	--	22
....SMITTIA	19	91	--	2	--	--
....TANYTARSUS	--	--	--	--	--	--
....THIENEMANNIELLA	4	1	2	--	--	2
....TRICHOCLADIUS	--	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--	--
....ZAVRELIA	--	1	--	--	--	--
...EMPIDIDAE						
....HEMERODROMIA	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462985 TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	NOV 13,78 1330	JAN 29,79 1200	MAR 1,79 1230	MAR 15,79 1200	MAR 31,79 1200	APR 30,79 1300
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
...SIMULIIDAE						
....SIMULIUM	4	18	13	7	8	10
...TABANIDAE						
....TABANUS	5	--	--	--	--	6
...TIPULIDAE						
....ANTOCHA	3	--	--	--	--	--
....DICRANOTA	1	8	--	3	4	2
....HEXATOMA	3	--	--	--	--	2
....TIPULA	--	--	--	--	--	2
....UNKNOWN GENUS	--	--	--	--	--	10
..EPHEMEROPTERA						
...BAETIDAE						
....BAETIS	--	--	--	--	--	--
....PSEUDOCLOEON	--	--	--	--	--	--
....UNKNOWN GENUS	1	--	--	--	--	2
...HEPTAGENIIDAE						
....RHITHROGENA	--	--	--	--	--	8
....STENONEMA	6	--	10	--	13	8
...LEPTOPHLEBIIDAE						
....UNKNOWN GENUS	--	--	--	--	--	2
...SIPHLONURIDAE						
....AMELETUS	--	--	1	--	--	--
..HEMIPTERA						
...VELIIDAE						
....RHAGOVELIA	--	--	--	--	--	--
..MEGALOPTERA						
...CORYDALIDAE						
....NIGRONIA	--	--	--	--	7	--
...SIALIDAE						
....SIALIS	--	--	--	--	--	--
..ODONATA						
...AESHNIDAE						
....BOYERIA	1	--	--	--	--	--
..PLECOPTERA						
...CHLOROPERLIDAE						
....HASTAPERLA	--	--	--	--	10	4
....UNKNOWN GENUS	2	--	--	--	--	--
...LEUCTRIDAE						
....LEUCTRA	1	12	--	1	--	40
...PELTOPERLIDAE						
....PELTOPERLA	--	1	3	1	3	40
...PERLIDAE						
....(NEO)PHASGANOPHORA	--	2	2	--	--	--
....ACRONEURIA	3	--	1	--	8	22
....UNKNOWN GENUS	--	--	--	3	--	--
...PERLODIDAE						
....ISOGENUS	--	--	29	--	--	--
....ISOPERLA	--	--	--	--	1	--
...TAENIOPTERYGIDAE						
....TAENIOPTERYX	1	--	--	--	--	--
..TRICHOPTERA						
...CALAMOCERATIDAE						
....ANISOCENTROPUS	--	1	--	--	--	--
...GLOSSOSOMATIDAE						
....GLOSSOSOMA	--	--	--	--	--	2
...HYDROPSYCHIDAE						
....CHEUMATOPSYCHE	2	1	--	--	--	--
....DIPLECTRONA	--	5	1	--	--	--
....HYDROPSYCHE	--	--	--	--	--	--
...HYDROPTILIDAE						
....HYDROPTILA	--	--	--	--	--	--
....ORTHOTRICHIA	--	--	--	--	--	--
...LEPIDOSTOMATIDAE						
....LEPIDOSTOMA	--	--	1	--	--	--
...LIMNEPHILIDAE						
....NEOPHYLAX	--	--	1	1	--	--
....UNKNOWN GENUS	--	--	1	--	--	--
...PHILOPOTAMIDAE						
....DOLOPHILODES	--	--	--	--	--	2
....WORMALDIA	--	--	1	--	--	--
...POLYCENTROPODIDAE						
....POLYCENTROPUS	1	--	--	--	--	--
...RHYACOPHILIDAE						
....RHYACOPHILA	7	5	--	2	1	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL (Lat 33 21 38 Long 087 27 39)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
06...	1400	1.2	23	6.6	14.0	5	8.3	8	0	.0	.0	1.4
NOV												
06...	1030	1.3	27	5.5	16.0	--	--	--	--	.0	.0	--
DEC												
07...	1000	1.8	73	5.9	11.0	--	10.0	--	--	.0	.0	--
JAN												
08...	1330	4.4	53	6.1	7.0	20	--	14	9	.0	.0	2.4
31...	1000	3.1	58	5.6	5.0	--	11.8	--	--	.0	.0	--
MAR												
02...	1245	3.7	54	6.2	13.0	--	--	--	--	.0	.0	--
29...	1415	2.6	34	6.1	16.5	--	9.2	--	--	.0	.0	--
MAY												
01...	1100	4.1	27	6.2	16.0	20	--	7	1	.0	.0	1.2
22...	1000	2.9	31	6.0	19.5	--	7.8	--	--	.0	.0	--
JUN												
05...	0945	2.9	30	6.6	24.0	--	--	--	--	--	--	--
27...	1200	2.2	20	6.5	20.0	--	8.8	--	--	.0	.0	--
AUG												
03...	1030	2.0	22	6.0	22.0	35	8.6	7	0	.0	.0	1.2
SEP												
04...	0900	2.5	26	5.8	20.0	30	--	7	2	.0	.0	1.3

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
OCT											
06...	1.0	1.3	26	.2	1.8	.5	9	0	7	3.6	--
NOV											
06...	--	--	--	--	--	--	11	0	9	56	--
DEC											
07...	--	--	--	--	--	--	7	0	6	14	--
JAN											
08...	2.0	1.5	18	.2	2.1	.6	6	0	5	7.6	.0
31...	--	--	--	--	--	--	6	0	5	24	--
MAR											
02...	--	--	--	--	--	--	2	0	2	2.0	--
29...	--	--	--	--	--	--	3	0	2	3.8	--
MAY											
01...	1.0	1.3	26	.2	1.9	.6	7	0	6	7.1	.0
22...	--	--	--	--	--	--	12	0	10	19	--
JUN											
05...	--	--	--	--	--	--	6	0	5	2.4	--
27...	--	--	--	--	--	--	1	0	1	.5	--
AUG											
03...	.9	1.0	23	.2	1.4	.4	11	0	9	18	.0
SEP											
04...	1.0	1.0	21	.2	1.5	.5	6	0	5	15	.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)
OCT											
06...	2.3	1.3	.0	6.8	--	20	.03	.06	.23	.00	--
NOV											
06...	3.1	--	--	--	--	--	--	--	--	--	--
DEC											
07...	20	--	--	--	--	--	--	--	--	--	--
JAN											
08...	12	1.4	.0	6.6	35	31	.05	.42	.63	.00	--
31...	15	--	--	--	--	--	--	--	--	--	--
MAR											
02...	13	--	--	--	--	--	--	--	--	--	--
29...	6.9	--	--	--	--	--	--	--	--	--	--
MAY											
01...	4.7	1.2	.0	6.6	25	21	.03	.28	.21	.01	.03
22...	4.3	--	--	--	--	--	--	--	--	--	--
JUN											
05...	5.1	--	--	--	--	--	--	--	--	--	--
27...	3.5	--	--	--	--	--	--	--	--	--	--
AUG											
03...	3.3	1.4	.0	7.0	--	21	.03	.11	.10	.01	.03
SEP											
04...	5.9	1.0	.0	6.9	26	21	.04	.18	.16	--	--

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDED RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	BORON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)
OCT											
06...	--	--	20	--	--	--	--	--	--	--	--
JAN											
08...	8000	--	40	1800	1	0	2	30	0	--	0
MAY											
01...	100	70	30	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	110	70	40	3500	2	1	0	--	6	0	0
SEP											
04...	360	320	40	--	--	--	0	--	--	--	--

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
08...	--	10	20	0	10	8	0	8	10	0	0
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	1	<10	10	10	10	3	1	2	10	4	3
SEP											
04...	--	<10	--	--	20	--	--	--	20	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)
OCT											
06...	--	--	--	--	50	--	--	--	--	--	--
JAN											
08...	0	10	19000	--	240	8100	--	0	--	10	0
MAY											
01...	--	--	350	210	140	--	--	--	--	--	--
JUN											
05...	--	--	1600	1400	160	--	--	--	--	--	--
AUG											
03...	1	<10	410	180	230	14000	0	0	0	10	0
SEP											
04...	--	10	990	810	180	24000	--	--	--	<10	--

DATE	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)
OCT											
06...	--	--	--	--	140	--	--	--	--	--	--
JAN											
08...	0	0	560	40	520	200	<.5	.0	<.5	.07	0
MAY											
01...	--	--	300	20	280	--	--	--	--	--	--
JUN											
05...	--	--	280	60	220	--	--	--	--	--	--
AUG											
03...	0	2	--	0	230	380	<.5	<.0	<.5	.00	0
SEP											
04...	--	--	--	0	380	560	--	--	--	.00	--

DATE	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR)	STRON-TIUM, SUS-PENDED RECOV. (UG/L AS SR)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	STRON-TIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
08...	0	0	0	90	20	70	10	90	80	10	10
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	0	0	0	40	30	10	<10	20	10	10	20
SEP											
04...	--	--	0	--	--	--	--	--	--	--	29

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)	CARBON, ORGANIC TOTAL (MG/L AS C)	PHENOLS (UG/L)
JAN												
08...	<.6	--	<.4	--	1.3	<.4	1.2	<.4	--	--	--	0
AUG												
03...	<.4	<.3	<.4	<.3	.6	<.4	.6	<.4	.05	<.02	3.5	0

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
06...	1400	1.2	8	.03
DEC				
07...	1000	1.8	5	.02
JAN				
08...	1330	4.4	14	.17
31...	1000	3.1	1	.01
MAR				
02...	1245	3.7	7	.07
29...	1415	2.6	9	.06
MAY				
01...	1100	4.1	5	.06
22...	1000	2.9	10	.08
JUN				
05...	0945	2.9	12	.10
SEP				
04...	0900	2.5	26	.18

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DIATOM SPECIES ENUMERATION

MAR. 29, 1978

ORGANISM NAME	CELLS/CM2	PER CENT
BACILLARIOPHYTA		
.BACILLARIOPHYCEAE		
..EUNOTIALES		
...EUNOTIACEAE		
....EUNOTIA		
.....E.BIDENTULA		0
.....E.CURVATA	250	6
.....E.HEXAGLYPHIS		0
.....E.PECTINALIS V.MINOR	1700	44
..FRAGILARIALES		
...FRAGILARIACEAE		
....FRAGILARIA		
.....F.VAUCHERIAE	250	6
....TABELLARIA		
.....T.FLOCCULOSA	740	19
..NAVICULALES		
...CYMBELLACEAE		
....CYMBELLA		
.....C.LUNATA		0
...GOMPHONEMACEAE		
....GOMPHONEMA		
.....G.GRACILE	490	13
.....G.PARVULUM	490	13
...NAVICULACEAE		
....FRUSTULIA		
.....F.RHOMBOIDES		0
....NAVICULA		
.....N.RADIOSA		0
..SURIRELLALES		
...SURIRELLACEACE		
....SURIRELLA		
.....S.LINEARIS		0

DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

ORDER 1.5
FAMILY 1.5
GENERA 1.7
SPECIES 2.2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DIATOM SPECIES ENUMERATION

SEP. 1, 1978

ORGANISM NAME	CELLS/CM2	PER CENT
BACILLARIOPHYTA		
.BACILLARIOPHYCEAE		
..BACILLARIALES		
...NITZSCHIACEAE		
....NITZSCHIA		
.....N.PALEA		0
..EUNOTIALES		
...EUNOTIACEAE		
....EUNOTIA		
.....E.CURVATA		0
.....E.EXIGUA		0
.....E.FLEXUOSA	69	3
.....E.PECTINALIS V.MINOR	410	17
.....E.PERPUSILLA		0
..NAVICULALES		
...CYMBELLACEAE		
....CYMBELLA		
.....C.AMPHICEPHALA		0
.....C.LUNATA	210	8
...GOMPHONEMACEAE		
....GOMPHONEMA		
.....G.GRACILE	69	3
.....G.PARVULUM	1100	45
...NAVICULACEAE		
....ANOMOEONEIS		
.....A.SERIANS V.BRACHYSIRA	170	7
.....A.VITREA		0
....FRUSTULIA		
.....F.RHOMBOIDES	34	1
....NAVICULA		
.....N.RADIOSA	140	6
....NEIDIUM		
.....N.IRIDIS		0
....PINNULARIA		
.....P.BRAUNII	240	10
.....P.VIRIDIS		0

DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

ORDER 0.7
FAMILY 1.8
GENERA 2.2
SPECIES 2.5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	MAR 29,78 1200	APR 28,78 1100	JUN 7,78 1230	JUL 12,78 1450	AUG 9,78 1300	SEP 1,78 1200
TOTAL COUNT	59	78	160	94	135	203
DIVERSITY: PHYLUM	0.0	0.0	0.0	0.0	0.0	0.0
.CLASS	0.1	0.0	0.2	0.3	0.1	0.0
..ORDER	1.0	1.5	1.5	2.1	1.9	1.3
...FAMILY	2.7	2.5	2.2	2.5	2.8	1.9
....GENUS	3.2	3.9	2.6	3.8	3.7	3.2
....GENUS-INSECTA	3.2	3.9	2.5	3.7	3.6	3.2
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA						
.OLIGOCHAETA						
..PLESIOPORA						
...NAIDIDAE						
....UNKNOWN GENUS	--	--	--	--	--	--
..UNKNOWN ORDER						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	--	--	--	1
ARTHROPODA (ARTHROPODS)						
.ARACHNIDA						
..HYDRACARINA						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	--	--	--	--
.CRUSTACEA						
..DECAPODA						
...ASTACIDAE						
....CAMBARUS	--	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	1	--
..ISOPODA						
...ASELLIDAE						
....LIRCEUS	1	--	5	4	--	--
.INSECTA						
..COLEOPTERA						
...DRYOPIDAE						
....HELICHUS	--	--	--	--	1	1
...ELMIDAE						
....ANCYRONYX	2	3	--	--	--	--
....OPTIOSERVUS	--	--	1	--	--	--
....OULIMNIUS	--	--	--	7	--	--
....STENELMIS	--	3	1	--	1	1
...GYRINIDAE						
....DINEUTUS	1	--	--	--	--	--
...PTILODACTYLIDAE						
....ANCHYTARSUS	--	--	--	--	2	--
.....A.BICOLOR	--	--	8	6	--	7
..DIPTERA						
...CERATOPOGONIDAE=HELEIDAE						
....UNKNOWN GENUS	11	4	3	--	1	--
...CHIRONOMIDAE						
....ABLABESMYIA	--	--	--	1	--	--
....BRILLIA	--	--	--	--	--	--
....CARDIOCLADIUS	--	--	--	1	--	--
....CHAETOCLADIUS	--	--	--	--	7	--
....CHIRONOMUS	--	--	--	--	--	--
....CLADOTANYTARSUS	--	--	--	--	--	3
....CONCHAPELOPIA	2	7	5	8	--	15
....CONCHAPELOPIA,ARCTO,RHEO	--	--	--	--	15	--
....CONSTEMPELLINA	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	MAR 29,78 1200	APR 28,78 1100	JUN 7,78 1230	JUL 12,78 1450	AUG 9,78 1300	SEP 1,78 1200
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
....CORYNONEURA	--	--	--	--	--	--
....CRICOTOPUS	--	5	--	--	1	--
....CRYPTOCHIRONOMUS	1	--	--	1	--	--
....DEMICRYPTOCHIRONOMUS	--	2	--	--	--	1
....ENDOCHIRONOMUS	--	3	--	--	--	--
....EUKIEFFERIELLA	11	6	11	11	--	1
....HETEROTRISSOCLADIUS	--	--	--	--	1	--
....LABRUNDINIA	--	1	--	2	--	--
....LARSIA	--	--	--	--	--	--
....MICROPSECTRA	--	--	--	--	3	3
....NILOTANYPUS	--	--	--	--	--	--
....ORTHOCLADIUS	--	--	--	--	--	--
....PARACHIRONOMUS	--	--	--	--	--	--
....PARAMETRIOCNEMUS	--	--	--	--	--	--
....PARATANYTARSUS	--	--	--	--	--	--
....PENTANEURA	--	--	--	--	--	--
....PHAENOPSECTRA	--	--	--	--	--	--
....POLYPEDILUM	3	12	25	11	27	19
....PROCLADIUS	--	--	--	--	--	--
....PSECTROCLADIUS	--	--	--	1	--	1
....PSEUDOCHIRONOMUS	--	2	--	--	--	--
....RHEOCRICOTOPUS	--	--	--	--	--	72
....RHEOTANYTARSUS	--	--	--	--	2	2
....ROBACKIA	--	--	--	--	--	--
....SMITTIA	--	--	--	2	--	4
....STEMPELLINA	--	--	--	--	--	--
....STENOCHIRONOMUS	--	--	--	--	--	--
....STICTOCHIRONOMUS	--	--	--	--	--	--
....TANYTARSUS	--	--	--	--	--	2
....THIENEMANNIELLA	--	--	--	--	--	--
....TRICHOCLADIUS	1	--	--	3	--	--
....ZAVRELIMYIA	--	--	--	1	--	1
...EMPIDIDAE						
....HEMERODROMIA	--	1	--	--	4	3
....UNKNOWN GENUS	--	--	--	--	--	--
...EPHYDRIDAE						
....UNKNOWN GENUS	--	6	--	--	--	--
...SIMULIIDAE						
....PROSIMULIUM	16	--	--	--	--	--
....SIMULIUM	--	3	56	3	6	21
...TIPULIDAE						
....ANTOCHA	--	--	--	--	--	--
....DICRANOTA	2	--	--	--	1	--
....HEXATOMA	--	--	--	--	--	--
....TIPULA	3	--	--	--	--	--
....UNKNOWN GENUS	--	1	--	--	1	--
..EPHEMEROPTERA						
...BAETIDAE						
....BAETIS	--	--	--	--	--	--
....PSEUDOCLOEON	--	--	--	--	3	--
...CAENIDAE						
....CAENIS	--	--	--	--	--	--
...EPHEMERELLIDAE						
....EPHEMERELLA	--	--	--	--	--	--
...HEPTAGENIIDAE						
....STENONEMA	1	--	--	--	1	--
...LEPTOPHLEBIIDAE						
....PARALEPTOPHLEBIA	--	--	--	--	--	--
...SIPHLONURIDAE						
....AMELETUS	--	--	--	--	--	--
..MEGALOPTERA						
...CORYDALIDAE						
....CORYDALUS						
.....C.CORNUTUS	--	--	--	--	--	2
....NIGRONIA	--	--	1	6	6	--
...SIALIDAE						
....SIALIS	--	2	1	--	3	2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	MAR 29,78 1200	APR 28,78 1100	JUN 7,78 1230	JUL 12,78 1450	AUG 9,78 1300	SEP 1,78 1200
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
..ODONATA						
...AESHNIDAE						
....BOYERIA	--	--	--	--	--	--
...AGRIIDAE						
....AGRION	--	--	--	--	--	--
...GOMPHIDAE						
....UNKNOWN GENUS	--	3	1	--	--	--
..PLECOPTERA						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	12	--	--	--	--
...CAPNIIDAE						
....UNKN GENUS	--	--	--	--	--	--
...CHLOROPERLIDAE						
....CHLOROPERLA	--	--	--	--	--	--
....HASTAPERLA	--	--	--	13	--	33
....UNKNOWN GENUS	--	--	42	--	--	--
...LEUCTRIDAE						
....LEUCTRA	--	--	--	--	34	--
...PELTOPERLIDAE						
....PELTOPERLA	1	--	--	--	3	--
...PERLIDAE						
....(NEO)PHASGANOPHORA	1	--	--	1	--	--
....ACRONEURIA	--	--	--	--	4	3
....NEOPERLA	--	1	--	--	--	--
....PERLESTA	--	--	--	--	--	--
....PERLINELLA	--	--	--	--	--	--
...PERLODIDAE						
....ISOGENUS	--	--	--	--	--	--
..TRICHOPTERA						
...CALAMOCERATIDAE						
....ANISOCENTROPUS						
.....A.PYRALOIDES	--	--	--	--	--	--
...HYDROPSYCHIDAE						
....CHEUMATOPSYCHE	1	--	--	12	5	4
....DIPLECTRONA	--	--	--	--	--	--
....HYDROPSYCHE	--	--	--	--	1	--
...PHILOPOTAMIDAE						
....CHIMARRA	--	--	--	--	--	--
...POLYCENTROPODIDAE						
....CYRNELLUS	--	--	--	--	1	--
....UNKNOWN GENUS	--	1	--	--	--	--
...RHYACOPHILIDAE						
....RHYACOPHILA	1	--	--	--	--	1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	OCT 6,78	NOV 13,78	DEC 7,78	JAN 8,79	JAN 31,79	MAR 2,79
TIME	1400	1500	1030	1330	1000	1245
TOTAL COUNT	233	184	55	82	46	970
DIVERSITY: PHYLUM	0.0	0.1	0.0	0.0	0.0	0.2
.CLASS	0.1	0.1	0.0	0.0	0.0	0.3
..ORDER	1.1	1.8	1.2	1.1	1.7	0.7
...FAMILY	2.0	2.6	1.7	2.2	2.3	0.9
....GENUS	3.5	3.7	3.6	3.5	3.1	3.0
....GENUS-INSECTA	3.4	3.7	3.6	3.5	3.1	2.8
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA						
.OLIGOCHAETA						
..PLESIOPORA						
...NAIDIDAE						
....UNKNOWN GENUS	--	2	--	--	--	24
..UNKNOWN ORDER						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	--	--	--	--
ARTHROPODA (ARTHROPODS)						
.ARACHNIDA						
..HYDRACARINA						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	--	--	--	14
.CRUSTACEA						
..DECAPODA						
...ASTACIDAE						
....CAMBARUS	--	--	--	--	--	2
....UNKNOWN GENUS	1	--	--	--	--	--
..ISOPODA						
...ASELLIDAE						
....LIRCEUS	1	1	--	--	--	--
.INSECTA						
..COLEOPTERA						
...DRYOPIDAE						
....HELICHUS	--	--	--	--	--	--
...ELMIDAE						
....ANCYRONYX	--	--	--	--	--	--
....OPTIOSERVUS	--	1	--	--	--	1
....OULIMNIUS	3	--	--	--	--	--
....STENELMIS	1	--	--	--	--	2
...GYRINIDAE						
....DINEUTUS	--	--	--	--	--	--
...PTILODACTYLIDAE						
....ANCHYTARSUS	4	3	--	--	--	--
.....A.BICOLOR	--	--	2	--	--	2
..DIPTERA						
...CERATOPOGONIDAE=HELEIDAE						
....UNKNOWN GENUS	2	--	--	1	--	--
...CHIRONOMIDAE						
....ABLABESMYIA	--	1	--	--	--	8
....BRILLIA	--	--	--	5	--	--
....CARDIOCLADIUS	--	1	--	--	--	--
....CHAETOCLADIUS	13	3	4	4	1	--
....CHIRONOMUS	--	--	--	--	--	--
....CLADOTANYTARSUS	--	--	1	--	--	--
....CONCHAPELOPIA	--	--	4	4	9	32
....CONCHAPELOPIA,ARCTO,RHEO	7	--	--	--	--	--
....CONSTEMPELLINA	--	--	--	--	--	--
....CORYNONEURA	--	--	--	--	--	4
....CRICOTOPUS	--	--	2	--	--	44
....CRYPTOCHIRONOMUS	--	1	4	--	--	--
....DEMICRYPTOCHIRONOMUS	--	--	--	4	--	--
....ENDOCHIRONOMUS	--	--	--	--	--	--
....EUKIEFFERIELLA	2	11	14	--	4	24
....HETEROTRISSOCLADIUS	--	--	--	--	1	--
....LABRUNDINIA	--	--	--	--	--	--
....LARSIA	--	--	--	--	--	4
....MICROPSECTRA	--	1	1	--	--	168
....NILOTANYPUS	--	--	--	--	--	--
....ORTHOCLADIUS	--	1	--	--	--	--
....PARACHIRONOMUS	--	1	--	--	--	--
....PARAMETRIOCNEMUS	--	--	--	--	--	--
....PARATANYTARSUS	--	--	--	--	--	--
....PENTANEURA	2	--	--	--	--	--
....PHAENOPSECTRA	--	--	--	--	--	--
....POLYPEDILUM	85	1	--	6	--	204
....PROCLADIUS	--	--	--	--	--	4
....PSECTROCLADIUS	--	--	--	5	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	OCT 6,78 1400	NOV 13,78 1500	DEC 7,78 1030	JAN 8,79 1330	JAN 31,79 1000	MAR 2,79 1245
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
....PSEUDOCHIRONOMUS	--	--	--	--	--	--
....RHEOCRICOTOPUS	38	43	--	--	--	--
....RHEOTANYTARSUS	9	--	--	--	3	340
....ROBACKIA	--	--	--	--	--	8
....SMITTIA	2	5	3	9	--	--
....STEMPELLINA	--	--	--	--	--	8
....STENOCHIRONOMUS	2	--	--	--	--	--
....STICTOCHIRONOMUS	--	--	--	--	--	--
....TANYTARSUS	--	--	--	--	--	--
....THIENEMANNIELLA	--	10	--	--	--	16
....TRICHOCLADIUS	--	--	3	--	--	--
....ZAVRELIMYIA	--	--	--	--	--	--
...EMPIDIDAE						
....HEMERODROMIA	3	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--	--
...EPHYDRIDAE						
....UNKNOWN GENUS	--	--	--	--	--	--
...SIMULIIDAE						
....PROSIMULIUM	--	--	--	--	--	--
....SIMULIUM	23	30	1	17	6	21
...TIPULIDAE						
....ANTOCHA	--	--	--	2	--	--
....DICRANOTA	1	--	2	2	1	--
....HEXATOMA	3	--	--	--	--	--
....TIPULA	--	1	--	--	--	1
....UNKNOWN GENUS	--	--	--	--	--	--
..EPHEMEROPTERA						
...BAETIDAE						
....BAETIS	1	3	--	--	--	--
....PSEUDOCLOEON	4	--	--	--	--	--
...CAENIDAE						
....CAENIS	--	--	--	--	--	--
...EPHEMERELLIDAE						
....EPHEMERELLA	4	--	--	--	--	11
...HEPTAGENIIDAE						
....STENONEMA	2	5	--	--	5	2
...LEPTOPHLEBIIDAE						
....PARALEPTOPHLEBIA	--	--	--	--	--	2
...SIPHLONURIDAE						
....AMELETUS	--	--	--	--	--	1
..MEGALOPTERA						
...CORYDALIDAE						
....CORYDALUS						
.....C.CORNUTUS	--	--	--	--	--	--
....NIGRONIA	1	--	--	1	--	--
...SIALIDAE						
....SIALIS	1	1	--	--	--	1
..ODONATA						
...AESHNIDAE						
....BOYERIA	1	--	--	--	--	--
...AGRIIDAE						
....AGRION	--	1	--	--	--	--
...GOMPHIDAE						
....UNKNOWN GENUS	--	--	--	--	--	--
..PLECOPTERA						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	--	--	--	--
...CAPNIIDAE						
....UNKN GENUS	--	--	--	--	--	--
...CHLOROPERLIDAE						
....CHLOROPERLA	--	--	--	--	--	8
....HASTAPERLA	--	--	--	3	--	--
....UNKNOWN GENUS	--	--	--	--	--	--
...LEUCTRIDAE						
....LEUCTRA	1	14	--	--	--	--
...PELTOPERLIDAE						
....PELTOPERLA	1	1	--	--	--	--
...PERLIDAE						
....(NEO)PHASGANOPHORA	--	--	1	2	--	--
....ACRONEURIA	2	3	2	--	6	--
....NEOPERLA	--	--	--	--	--	--
....PERLESTA	--	--	--	--	--	--
....PERLINELLA	2	--	--	--	--	--
...PERLODIDAE						
....ISOGENUS	--	--	--	--	--	2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	OCT 6,78	NOV 13,78	DEC 7,78	JAN 8,79	JAN 31,79	MAR 2,79
TIME	1400	1500	1030	1330	1000	1245
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
..TRICHOPTERA						
...CALAMOCERATIDAE						
....ANISOCENTROPUS						
.....A.PYRALOIDES	--	--	--	--	--	--
...HYDROPSYCHIDAE						
....CHEUMATOPSYCHE	4	15	4	15	9	--
....DIPLECTRONA	1	--	--	--	--	--
....HYDROPSYCHE	5	18	--	--	--	11
...PHILOPOTAMIDAE						
....CHIMARRA	--	5	--	--	--	1
...POLYCENTROPODIDAE						
....CYRNELLUS	--	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--	--
...RHYACOPHILIDAE						
....RHYACOPHILA	1	1	7	2	1	--

DATE	MAR 29,79	MAR 29,79	MAY 1,79	JUN 27,79	AUG 3,79
TIME	1200	1415	1100	1200	1030
TOTAL COUNT	59	240	106	1148	6
DIVERSITY: PHYLUM	0.0	0.0	0.1	0.0	0.0
.CLASS	0.1	0.0	0.1	0.0	0.0
..ORDER	1.0	0.8	1.4	1.2	0.7
...FAMILY	2.7	1.1	2.0	2.2	0.7
....GENUS	3.2	3.6	3.1	3.4	1.8
....GENUS-INSECTA	3.2	3.6	3.0	3.4	1.8
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..PLESIOPORA					
...NAIDIDAE					
....UNKNOWN GENUS	--	--	--	--	--
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	1	--	--
ARTHROPODA (ARTHROPODS)					
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
.CRUSTACEA					
..DECAPODA					
...ASTACIDAE					
....CAMBARUS	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--
..ISOPODA					
...ASELLIDAE					
....LIRCEUS	1	--	--	--	--
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	--	--	1	--	--
...ELMIDAE					
....ANCYRONYX	2	--	--	--	--
....OPTIOSERVUS	--	--	--	--	--
....OULIMNIUS	--	--	1	--	--
....STENELMIS	--	--	--	--	--
...GYRINIDAE					
....DINEUTUS	1	--	--	--	--
...PTILODACTYLIDAE					
....ANCHYTARSUS	--	--	--	--	--
.....A.BICOLOR	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	MAR 29,79 1200	MAR 29,79 1415	MAY 1,79 1100	JUN 27,79 1200	AUG 3,79 1030
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
..DIPTERA					
...CERATOPOGONIDAE=HELEIDAE					
....UNKNOWN GENUS	11	--	--	8	--
...CHIRONOMIDAE					
....ABLABESMYIA	--	--	1	--	--
....BRILLIA	--	--	--	--	--
....CARDIOCLADIUS	--	--	--	--	--
....CHAETOCLADIUS	--	40	--	--	--
....CHIRONOMUS	--	3	--	--	--
....CLADOTANYTARSUS	--	--	--	--	--
....CONCHAPELOPIA	2	21	--	--	--
....CONCHAPELOPIA,ARCTO,RHEO	--	--	6	48	--
....CONSTEMPELLINA	--	17	--	--	--
....CORYNONEURA	--	--	--	--	--
....CRICOTOPUS	--	--	--	12	--
....CRYPTOCHIRONOMUS	1	--	--	8	--
....DEMICRYPTOCHIRONOMUS	--	3	--	--	--
....ENDOCHIRONOMUS	--	--	--	4	--
....EUKIEFFERIELLA	11	--	1	36	--
....HETEROTRISSOCLADIUS	--	--	--	--	--
....LABRUNDINIA	--	--	--	--	--
....LARSIA	--	--	--	--	--
....MICROPSECTRA	--	--	15	68	--
....NILOTANYPUS	--	--	--	8	--
....ORTHOCLADIUS	--	--	--	--	--
....PARACHIRONOMUS	--	--	--	--	--
....PARAMETRIOCNEMUS	--	--	1	4	--
....PARATANYTARSUS	--	4	--	--	--
....PENTANEURA	--	--	--	--	--
....PHAENOPSECTRA	--	--	--	--	1
....POLYPEDILUM	3	49	46	300	1
....PROCLADIUS	--	--	--	--	--
....PSECTROCLADIUS	--	22	--	--	--
....PSEUDOCHIRONOMUS	--	--	--	--	--
....RHEOCRICOTOPUS	--	23	--	48	--
....RHEOTANYTARSUS	--	7	1	32	--
....ROBACKIA	--	--	--	--	--
....SMITTIA	--	11	--	--	--
....STEMPELLINA	--	--	--	--	--
....STENOCHIRONOMUS	--	--	--	--	--
....STICTOCHIRONOMUS	--	--	--	--	3
....TANYTARSUS	--	--	--	--	--
....THIENEMANNIELLA	--	--	--	--	--
....TRICHOCLADIUS	1	--	--	--	--
....ZAVRELIMYIA	--	--	--	--	--
...EMPIDIDAE					
....HEMERODROMIA	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	12	--
...EPHYDRIDAE					
....UNKNOWN GENUS	--	--	--	--	--
...SIMULIIDAE					
....PROSIMULIUM	16	--	--	--	--
....SIMULIUM	--	6	1	164	--
...TIPULIDAE					
....ANTOCHA	--	--	--	--	--
....DICRANOTA	2	--	--	8	--
....HEXATOMA	--	--	--	--	--
....TIPULA	3	2	1	4	--
....UNKNOWN GENUS	--	--	--	--	--
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	--	--	1	252	--
....PSEUDOCLOEON	--	--	3	--	--
...CAENIDAE					
....CAENIS	--	--	--	4	--
...EPHEMERELLIDAE					
....EPHEMERELLA	--	2	--	--	--
...HEPTAGENIIDAE					
....STENONEMA	1	6	2	8	--
...LEPTOPHLEBIIDAE					
....PARALEPTOPHLEBIA	--	1	--	--	--
...SIPHLONURIDAE					
....AMELETUS	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	MAR 29,79 1200	MAR 29,79 1415	MAY 1,79 1100	JUN 27,79 1200	AUG 3,79 1030
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
..MEGALOPTERA					
...CORYDALIDAE					
....CORYDALUS					
.....C.CORNUTUS	--	--	--	--	--
....NIGRONIA	--	--	--	--	--
...SIALIDAE					
....SIALIS	--	--	--	4	--
..ODONATA					
...AESHNIDAE					
....BOYERIA	--	--	--	--	--
...AGRIIDAE					
....AGRION	--	--	--	--	--
...GOMPHIDAE					
....UNKNOWN GENUS	--	--	--	--	--
..PLECOPTERA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
...CAPNIIDAE					
....UNKN GENUS	--	--	--	4	--
...CHLOROPERLIDAE					
....CHLOROPERLA	--	--	--	--	--
....HASTAPERLA	--	12	6	--	--
....UNKNOWN GENUS	--	--	--	--	--
...LEUCTRIDAE					
....LEUCTRA	--	--	1	56	--
...PELTOPERLIDAE					
....PELTOPERLA	1	4	3	16	--
...PERLIDAE					
....(NEO)PHASGANOPHORA	1	--	--	--	--
....ACRONEURIA	--	--	8	24	--
....NEOPERLA	--	--	--	--	--
....PERLESTA	--	--	--	12	--
....PERLINELLA	--	--	--	4	--
...PERLODIDAE					
....ISOGENUS	--	--	--	--	--
..TRICHOPTERA					
...CALAMOCERATIDAE					
....ANISOCENTROPUS					
.....A.PYRALOIDES	--	--	--	--	1
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	1	--	--	--	--
....DIPLECTRONA	--	--	4	--	--
....HYDROPSYCHE	--	7	1	--	--
...PHILOPOTAMIDAE					
....CHIMARRA	--	--	--	--	--
...POLYCENTROPODIDAE					
....CYRNELLUS	--	--	1	--	--
....UNKNOWN GENUS	--	--	--	--	--
...RHYACOPHILIDAE					
....RHYACOPHILA	1	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463090 CYPRESS CREEK NEAR HOLT, AL (Lat 33 15 38 Long 087 27 58)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 05...	1400	2.7	118	4.4	22.5	5	32	32	.4	20	4.1

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 05...	5.4	1.7	10	.1	2.4	.7	0	0	0	.0	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 05...	49	1.8	.1	9.3	84	78	.11	.61	.15	1300

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 05...	200	1100	2000	1000	1000	3500	200	3300	44	.32

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463200 HURRICANE CREEK NEAR CEDAR COVE, AL (Lat 33 13 15 Long 087 19 00)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 04...	1330	11	335	4.4	21.5	5	140	140	.8	40	19
AUG 27...	1215	6.9	405	3.7	25.0	5	160	160	.7	35	23

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 04...	22	2.7	4	.1	4.2	1.5	0	0	0	.0	.0
AUG 27...	25	3.3	4	.1	5.1	1.8	0	0	0	.0	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 04...	160	2.0	.1	11	281	229	.38	8.57	.06	2900
AUG 27...	188	2.3	.2	10	--	255	.35	4.75	.08	3300

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 04...	0	2900	430	200	230	--	0	6300	4	.12
AUG 27...	300	3000	720	440	280	7900	400	7500	19	.35

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463500 HURRICANE CREEK NEAR HOLT, AL (Lat 33 12 45 Long 087 26 55)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
04...	0900	57	149	5.6	23.0	0	60	57	.0	.0	9.4
AUG											
27...	1425	60	178	4.4	27.0	2	73	73	.2	10	11

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
04...	8.8	2.1	7	.1	3.6	1.5	3	0	2	12	.0
AUG											
27...	11	2.3	6	.1	4.0	1.7	0	0	0	.0	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
04...	64	2.1	.1	8.5	114	101	.16	17.5	.19	360
AUG										
27...	76	2.2	.1	7.5	--	113	.15	18.3	.22	610

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
04...	310	50	330	280	50	2900	300	2600	4	.62
AUG										
27...	290	320	380	330	50	4200	500	3700	20	3.2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463545 NORTH RIVER BELOW LOWERY BRANCH ABOVE BERRY, AL (Lat 33 45 36 Long 087 36 36)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN									
04...	1030	2.6	48	6.1	21.0	6	0	5	7.6

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
04...	6.2	1200	950	250	40	0	40	11	.08

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463580 UNNAMED TRIBUTARY TO CANE CREEK NEAR PEA RIDGE, AL (Lat 33 42 46 Long 087 34 02)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 14...	1425	.20	800	7.6	21.0	5	430	340	.0	.0	76
SEP 05...	1030	3.3	508	7.4	23.0	10	260	210	.0	.0	47

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN 14...	58	9.4	5	.2	13	3.2	110	0	90	4.4
SEP 05...	35	5.3	4	.1	8.2	2.9	63	0	52	4.0

DATE	SULFIDE DIS-SOLVED (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 14...	.0	330	1.9	.1	7.1	540	.73	.29	.09	70
SEP 05...	.0	210	1.9	.1	9.3	344	.53	3.07	.33	310

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 14...	50	20	230	220	10	460	10	450	2	.00
SEP 05...	260	50	630	580	50	1500	0	1500	16	.14

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463585 CANE CREEK NEAR BERRY, AL (Lat 33 42 00 Long 087 35 19)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
14...	0930	.33	586	7.6	19.5	0	290	250	.0	.0	51
SEP											
05...	0900	11	515	7.2	22.0	5	260	240	.0	.0	48

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
14...	39	7.1	5	.2	9.6	2.5	52	0	43	2.1	.0
SEP											
05...	35	5.4	4	.1	8.3	2.9	32	0	26	3.2	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
14...	250	2.1	.1	6.8	424	384	.58	.38	.04	90
SEP										
05...	220	2.1	.1	9.8	--	341	.46	10.1	.48	240

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
14...	80	10	220	210	10	90	10	80	1	.00
SEP										
05...	200	40	470	450	20	1500	0	1500	12	.36

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463605 ELLIS CREEK NEAR CLEVELAND, AL (Lat 33 42 10 Long 087 38 19)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
14...	1030	.56	50	6.4	20.0	20	14	4	.0	.0	2.2
SEP											
05...	1300	2.5	74	6.6	23.0	45	23	14	.0	.0	3.6

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
14...	2.0	3.1	31	.4	4.3	1.2	12	0	10	7.6	.0
SEP											
05...	3.3	2.7	19	.2	4.1	1.4	10	0	8	4.0	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
14...	8.6	3.6	.0	8.7	--	36	.06	.07	.10	170
SEP										
05...	19	3.2	.0	9.4	55	49	.07	.37	.28	560

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
14...	160	10	580	390	190	90	0	90	42	.06
SEP										
05...	540	20	1400	1300	60	--	0	890	24	.16

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463835 UNNAMED TRIBUTARY TO FREEMAN CREEK NEAR NEW LEXINGTON, AL (Lat 33 33 56 Long 087 38 40)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
06...	1315	.23	400	3.9	23.0	5	140	140	.5	25	19
AUG											
30...	0840	.27	505	3.8	23.0	0	180	180	.7	35	26

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN										
06...	22	3.8	6	.1	6.1	2.3	0	0	0	.0
AUG										
30...	28	4.5	5	.1	7.5	3.0	0	0	0	.0

DATE	SULFIDE DIS-SOLVED (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
06...	.0	170	2.9	.1	9.2	237	.32	.15	.18	2700
AUG										
30...	.0	210	2.9	.2	13	291	.50	.27	.10	--

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
06...	1900	800	6900	3900	3000	3700	0	3700	361	.22
AUG										
30...	0	2400	2800	2100	710	13000	13000	10	103	.08

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463840 LITTLE TYRO CREEK NEAR SANDTOWN, AL (Lat 33 36 02 Long 087 30 25)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
13...	1130	.15	685	7.0	22.5	5	320	290	.0	.0	53
AUG											
29...	0840	.11	740	7.0	22.0	0	380	340	.0	.0	66

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN										
13...	45	5.3	3	.1	8.1	2.8	36	0	30	5.8
AUG										
29...	52	6.1	3	.1	9.1	3.0	51	0	42	8.2

DATE	SULFIDE DIS-SOLVED (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
13...	.0	310	2.5	.1	9.3	462	.71	.21	.03	200
AUG										
29...	.0	340	3.2	.1	9.9	525	.82	.18	.03	90

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
13...	180	20	4400	2200	2200	14000	0	14000	12	.00
AUG										
29...	90	0	4200	1400	2800	--	0	17000	21	.01

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463850 TYRO CREEK NEAR NEW LEXINGTON, AL (Lat 33 33 58 Long 087 34 34)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 07...	1350	13	170	6.1	22.0	0	62	59	.0	.0	8.6
AUG 29...	1215	.98	268	5.2	25.0	2	110	110	.0	.0	15

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 07...	9.8	2.1	7	.1	3.7	1.6	4	0	3	5.1	.0
AUG 29...	17	2.5	5	.1	4.9	2.4	2	0	2	20	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 07...	69	1.5	.0	8.3	124	106	.17	4.45	.10	290
AUG 29...	120	1.9	.1	8.9	198	175	.27	.52	.20	200

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 07...	240	50	600	570	30	3500	100	3400	12	.43
AUG 29...	160	40	270	260	10	--	0	6500	5	.01

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463880 TRIBUTARY TO BEAR CREEK NEAR SAMANTHA, AL (Lat 33 33 49 Long 087 32 12)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 13...	1500	.61	34	6.0	20.5	10	10	0	.0	.0	1.9
AUG 29...	1030	.15	41	6.7	23.0	25	12	2	.0	.0	2.4

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 13...	1.3	1.8	26	.2	2.6	.8	12	0	10	19	.0
AUG 29...	1.5	2.2	26	.3	3.4	1.2	13	0	11	4.2	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 13...	5.9	1.5	.0	10	25	29	.03	.04	.09	140
AUG 29...	5.1	1.6	.0	9.9	--	31	.05	.02	.02	180

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 13...	130	10	450	420	30	90	20	70	12	.02
AUG 29...	180	0	700	520	180	70	0	70	7	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463890 DRY BRANCH NEAR SAMANTHA, AL (Lat 33 32 33 Long 087 32 22)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
DEC												
06...	1000	.04	32	5.5	6.0	--	10.4	--	--	.0	.0	--
JAN												
04...	1000	1.2	21	5.8	6.0	15	--	5	2	.0	.0	.8
FEB												
09...	1000	1.8	18	6.3	5.5	--	11.9	--	--	.0	.0	--
MAR												
01...	1000	3.1	18	5.6	12.0	--	9.8	--	--	.0	.0	--
26...	0930	1.1	19	6.5	9.5	--	11.1	--	--	.0	.0	--
APR												
27...	0945	.60	18	6.2	14.5	10	9.8	5	0	.0	.0	.7
MAY												
24...	1030	.17	26	5.8	17.0	--	8.3	--	--	.0	.0	--
JUN												
06...	1045	.15	23	6.7	19.0	--	--	--	--	--	--	--
JUL												
30...	1315	.50	--	5.8	23.5	10	8.6	6	0	.0	.0	.9
AUG												
29...	1315	.01	36	6.6	26.0	20	--	10	0	.0	.0	1.8

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
DEC											
06...	--	--	--	--	--	--	7	0	6	35	--
JAN											
04...	.7	1.3	33	.3	1.7	.4	4	0	3	10	.0
FEB											
09...	--	--	--	--	--	--	6	0	5	4.8	--
MAR											
01...	--	--	--	--	--	--	3	0	2	12	--
26...	--	--	--	--	--	--	--	0	--	--	--
APR											
27...	.8	1.2	31	.2	1.8	.6	6	0	5	6.1	.0
MAY											
24...	--	--	--	--	--	--	6	0	5	15	--
JUN											
06...	--	--	--	--	--	--	9	0	7	2.9	--
JUL											
30...	.9	1.5	32	.3	2.2	.7	16	0	13	41	.0
AUG											
29...	1.4	2.7	34	.4	3.7	1.0	16	0	13	6.4	.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463890 DRY BRANCH NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)
DEC											
06...	3.5	--	--	--	--	--	--	--	--	--	--
JAN											
04...	2.9	2.2	.0	7.9	22	18	.03	.07	.00	.00	--
FEB											
09...	2.3	--	--	--	--	--	--	--	--	--	--
MAR											
01...	3.3	--	--	--	--	--	--	--	--	--	--
26...	3.2	--	--	--	--	--	--	--	--	--	--
APR											
27...	2.1	1.4	.0	8.4	--	18	.02	.03	.00	.01	.03
MAY											
24...	2.5	--	--	--	--	--	--	--	--	--	--
JUN											
06...	2.3	--	--	--	--	--	--	--	--	--	--
JUL											
30...	2.8	1.1	.0	10	27	26	.04	.04	.01	.01	.03
AUG											
29...	4.7	1.5	.0	11	34	32	.05	.00	.01	--	--

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDED RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	BORON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)
JAN											
04...	160	--	30	3400	0	0	0	90	0	9	7
APR											
27...	150	120	30	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
JUL											
30...	220	180	40	1700	1	1	0	8	6	0	0
AUG											
29...	250	240	10	--	--	--	--	--	--	--	--

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)
JAN											
04...	2	10	<10	0	10	0	0	0	10	1	0
APR											
27...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
JUL											
30...	1	<10	10	10	20	0	0	0	10	4	3
AUG											
29...	--	--	--	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463890 DRY BRANCH NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)
JAN											
04...	1	10	210	--	10	15000	130	120	9	10	0
APR											
27...	--	--	170	130	40	--	--	--	--	--	--
JUN											
06...	--	--	350	310	40	--	--	--	--	--	--
JUL											
30...	1	<10	360	320	40	15000	3	3	0	10	0
AUG											
29...	--	--	480	390	90	--	--	--	--	--	--

DATE	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)
JAN											
04...	0	0	0	0	0	370	<.5	.0	<.5	.02	0
APR											
27...	--	--	--	0	6	--	--	--	--	--	--
JUN											
06...	--	--	10	0	10	--	--	--	--	--	--
JUL											
30...	0	1	40	30	10	350	<.5	.0	<.5	.00	0
AUG											
29...	--	--	80	0	80	--	--	--	--	--	--

DATE	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR)	STRON-TIUM, SUS-PENDED RECOV. (UG/L AS SR)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	STRON-TIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
JAN											
04...	0	0	0	--	0	50	10	10	10	0	30
APR											
27...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
JUL											
30...	0	0	0	20	10	8	<10	30	30	0	20
AUG											
29...	--	--	--	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463890 DRY BRANCH NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)	CARBON, ORGANIC TOTAL (MG/L AS C)	PHENOLS (UG/L)
JAN												
04...	<.4	--	.5	--	.4	<.4	.4	<.4	--	--	2.8	0
JUL												
30...	<.5	<.3	.9	.6	.8	.8	.8	.8	.05	.03	3.8	0

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
DEC				
06...	1000	.04	9	.00
FEB				
09...	1000	1.8	6	.03
MAR				
26...	0930	1.1	11	.03
APR				
27...	0945	.60	6	.01
MAY				
24...	1030	.17	6	.00
JUN				
06...	1045	.15	2	.00
AUG				
29...	1315	.01	13	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463890 DRY BRANCH NEAR SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DIATOM SPECIES ENUMERATION

FEB. 27, 1978

ORGANISM NAME	CELLS/CM2	PER CENT
BACILLARIOPHYTA		
.BACILLARIOPHYCEAE		
..ACHNANTHALES		
...ACHNANTHACEAE		
....ACHNANTHES		
.....A.MINUTISSIMA V.MACROCEP	14	1
..EUNOTIALES		
...EUNOTIACEAE		
....EUNOTIA		
.....E.CURVATA	14	1
.....E.INCISA	9	1
.....E.PECTINALIS V.MINOR	200	18
..FRAGILARIALES		
...FRAGILARIACEAE		
....FRAGILARIA		
.....F.VAUCHERIAE	34	3
....MERIDION		
.....M.CIRCULARE	64	6
....SYNEDRA		
.....S.ULNA	310	28
..NAVICULALES		
...CYMBELLACEAE		
....CYMBELLA		
.....C.MINUTA	9	1
...GOMPHONEMACEAE		
....GOMPHONEMA		
.....G.ANGUSTATUM	380	36
.....G.PARVULUM	46	4
...NAVICULACEAE		
....NAVICULA		
.....N.CRYPTOCEPHALA V.VENETA	2	0

DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

ORDER 1.6
FAMILY 1.7
GENERA 2.1
SPECIES 2.4

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463890 DRY BRANCH NEAR SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	APR 26,78	JUN 1,78	JUL 11,78	JAN 4,79	JAN 9,79
TIME	0930	1000	0900	1000	0900
TOTAL COUNT	456	697	389	150	471
DIVERSITY: PHYLUM	0.0	0.0	0.1	0.0	0.0
.CLASS	1.0	0.9	1.1	0.9	1.0
..ORDER	2.1	2.0	2.2	1.3	2.1
...FAMILY	2.6	2.2	2.3	1.7	2.7
....GENUS	2.9	3.0	3.0	1.9	2.9
....GENUS-INSECTA	3.2	3.1	3.6	3.1	3.2
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	3	--	--
ARTHROPODA (ARTHROPODS)					
.CRUSTACEA					
..AMPHIPODA					
...GAMMARIDAE					
....CRANGONYX	--	--	--	--	--
....SYNURELLA	--	--	--	--	--
..DECAPODA					
...ASTACIDAE					
....ORCONECTES	--	--	--	--	1
....UNKNOWN GENUS	--	2	2	1	--
..ISOPODA					
...ASELLIDAE					
....LIRCEUS	182	243	181	103	181
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	22	28	6	--	10
...ELMIDAE					
....ANCYRONYX	--	--	1	--	--
....DUBIRAPHIA	--	--	--	--	--
....GONIELMIS	--	--	1	--	--
....MACRONYCHUS	--	--	--	--	--
.....M.GLABRATUS	--	--	--	--	1
....OPTIOSERVUS	--	--	1	--	--
....STENELMIS	7	8	4	--	1
...PSEPHENIDAE					
....ECTOPRIA	--	--	--	--	1
....PSEPHENUS	4	--	5	--	--
..DIPTERA					
...CERATOPOGONIDAE=HELEIDAE					
....UNKNOWN GENUS	--	--	--	--	1
...CHIRONOMIDAE					
....ABLABESMYIA	--	--	2	--	--
....CHAETOCLADIUS	--	--	--	--	--
....CONCHAPELOPIA	--	22	7	--	2
....CONCHAPELOPIA,ARCTO,RHEO	--	--	--	--	--
....CORYNONEURA	--	--	--	--	--
....CRICOTOPUS	9	--	--	--	--
....CRYPTOCHIRONOMUS	--	--	5	--	--
....EUKIEFFERIELLA	5	67	14	2	1
....HETEROTRISSOCLADIUS	--	--	--	--	8
....LABRUNDINIA	--	4	--	1	--
....LARSIA	7	11	2	--	2
....MICROPSECTRA	--	--	3	--	--
....MICROTENDIPES	--	--	4	--	--
....MONODIAMESA	--	--	--	--	--
....ORTHOCLADIUS	--	--	--	--	1
....PARAMETRIOCNEMUS	--	--	--	--	--
....POLYPEDILUM	29	163	19	--	--
....PSUEDORTHOCLADIUS	--	--	--	--	39
....RHEOTANYTARSUS	--	--	11	--	--
....SMITTIA	--	--	--	11	--
....STEMPELLINA	--	--	--	--	--
....THIENEMANNIELLA	4	--	--	--	--
....UNKN PODONOMINAE	--	--	--	--	--
....ZAVRELIMYIA	--	13	11	--	--
...SIMULIIDAE					
....PROSIMULIUM	--	--	--	7	111
....SIMULIUM	2	7	--	2	--
...TIPULIDAE					
....DICRANOTA	--	8	2	6	--
....HEXATOMA	--	--	--	--	4

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463890 DRY BRANCH NEAR SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	APR 26,78 0930	JUN 1,78 1000	JUL 11,78 0900	JAN 4,79 1000	JAN 9,79 0900
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
....PSEUDOLIMNOPHILA	--	--	--	--	1
....TIPULA	2	1	--	4	1
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	--	--	--	--	--
....PSEUDOCLOEON	--	--	--	--	39
...EPHEMERELLIDAE					
....EPHEMERELLA	9	2	--	--	--
...HEPTAGENIIDAE					
....RHITHROGENA	--	--	--	--	--
....STENACRON	--	--	--	--	--
....STENONEMA	16	6	72	--	--
....UNKNOWN GENUS	10	--	--	--	--
..HEMIPTERA					
...VELIIDAE					
....MICROVELIA	--	1	2	--	--
....VELIA	--	--	2	--	--
..MEGALOPTERA					
...CORYDALIDAE					
....CHAULIODES	--	1	--	--	--
....CORYDALUS					
.....C.CORNUTUS	--	--	--	7	--
....NIGRONIA	--	71	13	--	12
..ODONATA					
...AESHNIDAE					
....BOYERIA	--	--	1	--	--
...GOMPHIDAE					
....UNKNOWN GENUS	3	--	2	--	--
..PLECOPTERA					
...CAPNIIDAE					
....ALLOCAPNIA	--	--	--	--	8
....UNKN GENUS	--	--	--	--	--
...CHLOROPERLIDAE					
....ALLOPERLA	1	--	--	--	--
....HASTAPERLA	103	7	--	--	--
....KATHROPERLA	--	--	--	--	--
...LEUCTRIDAE					
....LEUCTRA	--	--	--	--	--
...NEMOURIDAE					
....AMPHINEMURA	--	--	--	--	--
....NEMOURA	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	1
...PERLIDAE					
....(NEO)PHASGANOPHORA	36	15	--	--	--
....ACRONEURIA	2	--	3	--	--
...PERLODIDAE					
....ISOGENUS	1	--	--	--	--
....ISOPERLA	--	--	--	--	1
....UNKNOWN GENUS	--	--	--	--	--
...TAENIOPTERYGIDAE					
....TAENONEMA	--	--	--	--	17
..TRICHOPTERA					
...GLOSSOSOMATIDAE					
....AGAPETUS	1	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	--	3	10	4	--
....DIPLECTRONA	--	14	--	1	4
...LEPIDOSTOMATIDAE					
....LEPIDOSTOMA	--	--	--	--	--
...LIMNEPHILIDAE					
....NEOPHYLAX	--	--	--	--	9
....PYCNOPSYCHE	--	--	--	--	--
...ODONTOCERIDAE					
....UNKNOWN GENUS	--	--	--	--	--
...POLYCENTROPODIDAE					
....NEURECLIPSIS	--	--	--	--	--
....POLYCENTROPUS	--	--	--	--	11
...PSYCHOMYIIDAE					
....LYPE	--	--	--	--	--
...RHYACOPHILIDAE					
....RHYACOPHILA	1	--	--	1	3
MOLLUSCA (MOLLUSCS)					
.BIVALVIA					
..NUCULOIDEA					
...SPHAERIIDAE					
....SPHAERIUM	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463890 DRY BRANCH NEAR SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JAN 9,79	MAR 1,79	MAR 26,79	APR 27,79
TIME	1000	1000	0930	0945
TOTAL COUNT	42	465	282	328
DIVERSITY: PHYLUM	0.2	0.0	0.0	0.0
.CLASS	1.1	0.9	0.7	0.9
..ORDER	2.2	2.4	2.5	2.3
...FAMILY	2.5	2.9	3.4	3.4
....GENUS	2.5	3.2	3.5	3.7
....GENUS-INSECTA	2.3	3.2	3.4	4.0
ORGANISM	COUNT	COUNT	COUNT	COUNT
ANNELIDA				
.OLIGOCHAETA				
..UNKNOWN ORDER				
...UNKNOWN FAMILY				
....UNKNOWN GENUS	--	--	--	--
ARTHROPODA (ARTHROPODS)				
.CRUSTACEA				
..AMPHIPODA				
...GAMMARIDAE				
....CRANGONYX	--	--	--	4
....SYNURELLA	2	2	--	--
..DECAPODA				
...ASTACIDAE				
....ORCONECTES	1	--	--	--
....UNKNOWN GENUS	--	--	--	--
..ISOPODA				
...ASELLIDAE				
....LIRCEUS	19	128	50	100
.INSECTA				
..COLEOPTERA				
...DRYOPIDAE				
....HELICHUS	--	26	17	4
...ELMIDAE				
....ANCYRONYX	--	--	--	--
....DUBIRAPHIA	1	--	--	--
....GONIELMIS	--	--	--	--
....MACRONYCHUS	--	--	--	8
.....M.GLABRATUS	--	--	--	--
....OPTIOSERVUS	--	--	--	--
....STENELMIS	--	1	1	--
...PSEPHENIDAE				
....ECTOPRIA	--	--	--	--
....PSEPHENUS	--	1	--	--
..DIPTERA				
...CERATOPOGONIDAE=HELEIDAE				
....UNKNOWN GENUS	--	--	--	4
...CHIRONOMIDAE				
....ABLABESMYIA	1	--	--	--
....CHAETOCLADIUS	--	6	2	--
....CONCHAPELOPIA	--	--	1	--
....CONCHAPELOPIA,ARCTO,RHEO	--	--	--	4
....CORYNONEURA	--	1	--	4
....CRICOTOPUS	--	--	--	--
....CRYPTOCHIRONOMUS	--	--	--	--
....EUKIEFFERIELLA	--	--	6	--
....HETEROTRISSOCLADIUS	--	--	--	--
....LABRUNDINIA	--	--	--	--
....LARSIA	--	--	--	--
....MICROPSECTRA	--	--	--	--
....MICROTENDIPES	1	--	--	--
....MONODIAMESA	--	2	--	--
....ORTHOCLADIUS	--	--	--	4
....PARAMETRIOCNEMUS	--	--	--	4
....POLYPEDILUM	--	3	--	--
....PSUEDORTHOCLADIUS	--	--	--	--
....RHEOTANYTARSUS	--	--	1	--
....SMITTIA	--	--	--	--
....STEMPELLINA	--	--	--	4
....THIENEMANNIELLA	--	--	--	--
....UNKN PODONOMINAE	--	--	1	--
....ZAVRELIMYIA	--	--	--	--
...SIMULIIDAE				
....PROSIMULIUM	8	98	--	4
....SIMULIUM	--	33	43	4
...TIPULIDAE				
....DICRANOTA	--	--	2	4
....HEXATOMA	--	--	--	--
....PSEUDOLIMNOPHILA	--	--	--	--
....TIPULA	--	1	3	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463890 DRY BRANCH NEAR SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JAN 9,79	MAR 1,79	MAR 26,79	APR 27,79
TIME	1000	1000	0930	0945
ORGANISM	COUNT	COUNT	COUNT	COUNT
..EPHEMEROPTERA				
...BAETIDAE				
....BAETIS	--	73	8	--
....PSEUDOCLOEON	--	--	--	16
...EPHEMERELLIDAE				
....EPHEMERELLA	--	--	--	--
...HEPTAGENIIDAE				
....RHITHROGENA	--	--	--	4
....STENACRON	--	--	--	36
....STENONEMA	--	3	6	--
....UNKNOWN GENUS	--	--	--	--
..HEMIPTERA				
...VELIIDAE				
....MICROVELIA	--	--	--	--
....VELIA	--	--	--	--
..MEGALOPTERA				
...CORYDALIDAE				
....CHAULIODES	--	--	--	--
....CORYDALUS				
.....C.CORNUTUS	--	6	4	--
....NIGRONIA	--	--	--	--
..ODONATA				
...AESHNIDAE				
....BOYERIA	--	--	--	4
...GOMPHIDAE				
....UNKNOWN GENUS	--	--	--	--
..PLECOPTERA				
...CAPNIIDAE				
....ALLOCAPNIA	5	--	--	--
....UNKN GENUS	--	--	1	--
...CHLOROPERLIDAE				
....ALLOPERLA	--	--	--	--
....HASTAPERLA	--	--	--	28
....KATHROPERLA	--	--	--	8
...LEUCTRIDAE				
....LEUCTRA	--	15	8	8
...NEMOURIDAE				
....AMPHINEMURA	--	--	--	20
....NEMOURA	--	8	59	--
....UNKNOWN GENUS	--	--	--	--
...PERLIDAE				
....(NEO)PHASGANOPHORA	--	--	--	--
....ACRONEURIA	--	--	--	32
...PERLODIDAE				
....ISOGENUS	--	--	11	--
....ISOPERLA	--	22	--	--
....UNKNOWN GENUS	--	--	--	8
...TAENIOPTERYGIDAE				
....TAENONEMA	--	--	--	--
..TRICHOPTERA				
...GLOSSOSOMATIDAE				
....AGAPETUS	--	--	37	--
....UNKNOWN GENUS	--	--	--	4
...HYDROPSYCHIDAE				
....CHEUMATOPSYCHE	--	--	--	--
....DIPLECTRONA	--	4	6	--
...LEPIDOSTOMATIDAE				
....LEPIDOSTOMA	1	--	--	--
...LIMNEPHILIDAE				
....NEOPHYLAX	--	9	--	--
....PYCNOPSYCHE	2	--	--	--
...ODONTOCERIDAE				
....UNKNOWN GENUS	--	--	1	--
...POLYCENTROPODIDAE				
....NEURECLIPSIS	--	--	2	--
....POLYCENTROPUS	--	2	--	--
...PSYCHOMYIIDAE				
....LYPE	--	--	1	--
...RHYACOPHILIDAE				
....RHYACOPHILA	--	21	11	8
MOLLUSCA (MOLLUSCS)				
.BIVALVIA				
..NUCULOIDEA				
...SPHAERIIDAE				
....SPHAERIUM	1	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464020 JOHNSON BRANCH NEAR UTLEY, AL (Lat 33 30 32 Long 087 32 24)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
07...	1110	.91	32	6.5	20.0	10	9	0	.0	.0	1.6
AUG											
29...	1400	.09	49	6.5	24.0	30	14	0	.0	.0	2.8

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
07...	1.2	2.0	30	.3	2.9	.9	13	0	11	6.6	.0
AUG											
29...	1.8	3.5	33	.4	4.6	1.1	20	0	16	10	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
07...	3.1	1.9	.0	8.7	30	26	.04	.07	.07	90
AUG										
29...	3.0	2.9	.0	9.0	40	35	.05	.01	.04	120

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
07...	60	30	250	240	10	60	10	50	4	.01
AUG										
29...	120	0	960	460	500	240	0	260	3	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464025 CRIPPLE CREEK NEAR SAMANTHA, AL (Lat 33 29 34 Long 087 33 45)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
07...	0930	4.0	72	6.3	21.0	10	23	15	.0	.0	4.5
AUG											
30...	0900	.89	110	6.8	26.0	15	41	29	.0	.0	8.6

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
07...	2.9	2.1	16	.2	3.1	1.0	10	0	8	8.0	.0
AUG											
30...	4.7	3.1	14	.2	4.5	1.5	14	0	11	3.6	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
07...	19	2.1	.0	8.2	48	45	.07	.52	.18	430
AUG										
30...	36	3.2	.0	7.9	--	73	.10	.18	.28	520

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
07...	380	50	500	450	50	160	0	160	9	.10
AUG										
30...	490	30	780	700	80	370	10	360	23	.06

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL (Lat 33 28 25 Long 087 34 06)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
03...	1235	.08	385	7.2	19.0	10	7.2	120	85	.0	.0	19
NOV												
03...	0930	.13	450	7.3	13.0	85	6.0	110	51	.0	.0	20
DEC												
06...	1215	3.4	214	6.4	8.0	--	11.0	--	--	.0	.0	--
JAN												
05...	1130	22	83	5.0	5.0	0	--	27	25	.0	.0	4.6
FEB												
09...	1130	42	104	5.2	5.5	--	11.8	--	--	.0	.0	--
28...	1100	53	83	5.4	11.0	--	10.2	--	--	.0	.0	--
MAR												
28...	1030	22	110	6.9	12.5	--	9.8	40	32	.0	.0	7.9
APR												
25...	1000	18	---	--	17.0	10	9.0	31	23	.0	.0	5.8
MAY												
25...	0930	3.6	181	6.4	15.0	--	9.3	--	--	.0	.0	--
JUN												
06...	0930	4.3	110	6.8	21.5	--	--	--	--	--	--	--
25...	1100	2.0	235	6.0	20.5	--	8.0	--	--	.0	.0	--
JUL												
30...	1030	12	125	5.8	24.0	3	8.2	48	40	.0	.0	9.8
AUG												
29...	1100	1.1	150	7.0	23.0	10	8.4	56	43	.0	.0	11
SEP												
26...	1530	--	121	--	20.0	--	--	--	--	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
OCT											
03...	17	26	32	1.0	30	3.5	40	0	33	4.0	--
NOV											
03...	15	47	46	1.9	52	5.3	72	0	59	5.8	--
DEC											
06...	--	--	--	--	--	--	6	0	5	3.8	--
JAN											
05...	3.7	2.4	16	.2	3.3	.9	2	0	2	32	.0
FEB											
09...	--	--	--	--	--	--	3	0	2	30	--
28...	--	--	--	--	--	--	6	0	5	38	--
MAR											
28...	5.0	2.4	11	.2	3.4	1.0	10	0	8	2.0	--
APR											
25...	4.0	2.3	13	.2	3.3	1.0	10	0	8	--	.0
MAY											
25...	--	--	--	--	--	--	14	0	11	8.9	--
JUN											
06...	--	--	--	--	--	--	15	0	12	3.8	--
25...	--	--	--	--	--	--	12	0	10	19	--
JUL											
30...	5.8	3.2	12	.2	4.5	1.3	10	0	8	25	.0
AUG											
29...	7.0	5.8	18	.3	7.4	1.6	16	0	13	2.6	.0
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)
OCT											
03...	100	29	.1	4.8	233	219	.32	.05	.00	.00	--
NOV											
03...	72	66	.1	4.9	--	266	.41	.09	.00	.00	--
DEC											
06...	75	--	--	--	--	--	--	--	--	--	--
JAN											
05...	29	2.6	.0	7.8	56	54	.08	3.36	.34	.00	--
FEB											
09...	37	--	--	--	--	--	--	--	--	--	--
28...	25	--	--	--	--	--	--	--	--	--	--
MAR											
28...	33	2.0	.0	8.2	--	67	.09	4.05	.47	--	--
APR											
25...	27	2.0	.0	8.1	--	55	.07	2.81	.24	.01	.03
MAY											
25...	52	--	--	--	--	--	--	--	--	--	--
JUN											
06...	32	--	--	--	--	--	--	--	--	--	--
25...	87	--	--	--	--	--	--	--	--	--	--
JUL											
30...	40	2.3	.0	10	--	81	.11	2.69	.82	.01	.03
AUG											
29...	46	5.0	.0	7.9	--	94	.13	.28	.37	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDED RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	BORON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)
OCT											
03...	--	--	20	--	--	--	--	--	--	--	--
NOV											
03...	--	--	40	--	--	--	--	--	--	--	--
JAN											
05...	860	--	480	1400	1	0	1	8	0	9	0
MAR											
28...	280	280	0	--	--	--	--	--	--	--	--
APR											
25...	210	180	30	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
JUL											
30...	130	110	20	1700	1	1	1	10	6	0	0
AUG											
29...	300	300	0	--	--	--	--	--	--	--	--

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
JAN											
05...	9	10	10	0	10	--	0	12	10	4	0
MAR											
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
JUL											
30...	0	<10	0	20	<10	--	0	5	10	3	2
AUG											
29...	--	--	--	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)
OCT											
03...	--	--	--	--	60	--	--	--	--	--	--
NOV											
03...	--	--	--	--	50	--	--	--	--	--	--
JAN											
05...	4	10	400	--	150	5800	--	96	--	10	0
MAR											
28...	--	--	270	230	40	--	--	--	--	--	--
APR											
25...	--	--	310	270	40	--	--	--	--	--	--
JUN											
06...	--	--	750	690	60	--	--	--	--	--	--
JUL											
30...	1	<10	240	210	30	14000	6	4	2	<10	0
AUG											
29...	--	--	740	700	40	--	--	--	--	--	--

DATE	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)
OCT											
03...	--	--	--	--	50	--	--	--	--	--	--
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
JAN											
05...	0	0	300	10	290	120	<.5	.0	<.5	.02	0
MAR											
28...	--	--	430	0	430	--	--	--	--	--	--
APR											
25...	--	--	340	300	40	--	--	--	--	--	--
JUN											
06...	--	--	--	0	400	--	--	--	--	--	--
JUL											
30...	0	4	--	0	610	130	<.5	.0	<.5	.00	1
AUG											
29...	--	--	--	0	680	--	--	--	--	--	--

DATE	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR)	STRON-TIUM, SUS-PENDED RECOV. (UG/L AS SR)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	STRON-TIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
JAN											
05...	0	0	0	--	0	60	10	60	10	50	10
MAR											
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
JUL											
30...	0	1	0	40	0	40	<10	20	10	10	20
AUG											
29...	--	--	--	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)	CARBON, ORGANIC TOTAL (MG/L AS C)	PHENOLS (UG/L)
JAN												
05...	<.5	--	.5	--	1.5	<.4	1.3	<.4	--	--	--	0
JUL												
30...	<1.4	<1.0	<.4	<.3	2.4	<.4	2.2	<.4	.60	.03	5.5	1

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
03...	1235	.08	2	.00
NOV				
03...	0930	.13	13	.00
DEC				
06...	1215	3.4	18	.17
JAN				
05...	1130	22	3	.18
FEB				
09...	1130	42	9	1.0
28...	1100	53	12	1.7
MAR				
28...	1030	22	11	.67
APR				
25...	1000	18	11	.56
MAY				
25...	0930	3.6	7	.07
JUN				
06...	0930	4.3	8	.09
JUL				
30...	1030	12	23	.76
AUG				
29...	1100	1.1	40	.12

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DIATOM SPECIES ENUMERATION

FEB. 27, 1978

ORGANISM NAME	CELLS/CM2	PER CENT
BACILLARIOPHYTA		
.BACILLARIOPHYCEAE		
..ACHNANTHALES		
...ACHNANTHACEAE		
....ACHNANTHES		
.....A.LINEARIS F.CURTA	3	1
.....A.MINUTISSIMA	52	17
.....A.MINUTISSIMA V.ROBUSTA		0
..BACILLARIALES		
...NITZSCHIACEAE		
....NITZSCHIA		
.....N.DISSIPATA		0
.....N.OBTUSA		0
..EUNOTIALES		
...EUNOTIACEAE		
....EUNOTIA		
.....E.FLEXUOSA	9	3
.....E.PERPUSILLA	3	1
..FRAGILARIALES		
...FRAGILARIACEAE		
....FRAGILARIA		
.....F.VAUCHERIAE	180	59
....MERIDION		
.....M.CIRCULARE	9	3
..NAVICULALES		
...CYMBELLACEAE		
....CYMBELLA		
.....C.MINUTA		0
...GOMPHONEMACEAE		
....GOMPHONEMA		
.....G.BRASILIENSE		0
.....G.PARVULUM	35	11
...NAVICULACEAE		
....DIPLONEIS		0
....FRUSTULIA		
.....F.RHOMBOIDES		0
....NAVICULA		
.....N.RADIOSA	12	4
....PINNULARIA		
.....P.MAIOR		0
..SURIRELLALES		
...SURIRELLACEACE		
....SURIRELLA		
.....S.OVATA	3	1

DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.5
FAMILY 1.6
GENERA 1.8

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	MAR 27,78	APR 26,78	JUN 2,78	JUL 11,78	DEC 6,78
TIME	1200	1200	1245	1330	1215
TOTAL COUNT	1852	614	361	628	70
DIVERSITY: PHYLUM	0.0	0.0	0.0	0.0	0.0
.CLASS	0.0	0.1	0.3	0.2	0.6
..ORDER	0.4	1.0	2.0	2.3	2.3
...FAMILY	0.7	2.0	2.3	2.5	3.4
....GENUS	1.0	3.0	2.8	3.0	3.7
....GENUS-INSECTA	1.0	2.9	2.7	2.8	3.6
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..PROSOPORA					
...LUMBRICULIDAE					
....UNKNOWN GENUS	--	--	--	--	--
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	1	--
....UNKNOWN GENUS #1	--	--	--	--	--
....UNKNOWN GENUS #2	--	--	--	--	--
ARTHROPODA (ARTHROPODS)					
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
.CRUSTACEA					
..DECAPODA					
...ASTACIDAE					
....UNKNOWN GENUS	--	--	1	--	--
..ISOPODA					
...ASELLIDAE					
....LIRCEUS	--	12	17	22	9
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	13	7	25	21	12
...ELMIDAE					
....ANCYRONYX	--	1	--	--	--
.....A.VARIEGATA	--	--	--	--	--
....DUBIRAPHIA	--	--	--	2	--
....GONIELMIS	2	--	--	--	--
....MACRONYCHUS	--	--	--	--	--
.....M.GLABRATUS	8	--	--	--	--
....OPTIOSERVUS	--	6	8	22	5
....OULIMNIUS	--	--	2	41	6
....PROMORESIA	2	--	--	--	--
....STENELMIS	1	2	6	19	3
..DIPTERA					
...CERATOPOGONIDAE=HELEIDAE					
....UNKNOWN GENUS	--	3	--	1	--
...CHIRONOMIDAE					
....."CORDITES"	--	--	--	--	--
....ABLABESMYIA	--	--	1	--	--
....BRILLIA	--	3	--	--	--
....CAMPTOCLADIUS	--	--	1	--	--
....CHAETOCLADIUS	--	--	--	--	--
....CONCHAPELOPIA	3	9	3	10	--
....CONCHAPELOPIA,ARCTO,RHEO	--	--	--	--	--
....CRICOTOPUS	22	7	1	--	--
....CRYPTOCHIRONOMUS	--	--	--	--	--
....DEMICRYPTOCHIRONOMUS	--	--	--	--	--
....EUKIEFFERIELLA	36	96	2	15	--
....LABRUNDINIA	--	--	2	--	--
....LARSIA	--	--	--	--	--
....MICROPSECTRA	--	--	--	--	--
....NILOTANYPUS	--	--	--	--	--
....ORTHOCLADIUS	--	--	--	--	--
....PARACLADOPELMA	--	--	--	--	--
....PARAMETRIOCNEMUS	--	--	--	--	1
....PENTANEURA	--	--	--	--	--
....POLYPEDILUM	1627	117	4	114	1
....PSECTROCLADIUS	--	--	--	--	--
....PSUEDORTHOCLADIUS	--	--	--	--	--
....RHEOCRICOTOPUS	--	--	--	--	--
....RHEOTANYTARSUS	--	9	2	--	--
....TANYTARSUS	--	--	--	--	--
....THIENEMANNIELLA	7	13	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	MAR 27,78	APR 26,78	JUN 2,78	JUL 11,78	DEC 6,78
TIME	1200	1200	1245	1330	1215
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
....TRICHOCLADIUS	--	32	--	--	--
....UNKN DIAMESINAE #2	--	--	--	--	--
....ZAVRELIMYIA	--	--	1	--	--
...EMPIDIDAE					
....UNKNOWN GENUS	1	--	--	--	--
...SIMULIIDAE					
....PROSIMULIUM	32	--	--	--	--
....SIMULIUM	--	217	29	6	1
....UNKNOWN GENUS	--	--	--	--	--
...TIPULIDAE					
....ANTOCHA	1	--	--	--	2
....HEXATOMA	--	--	--	--	--
....TIPULA	4	5	2	--	--
....UNKNOWN GENUS	--	--	--	--	--
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	--	--	--	--	--
....PSEUDOCLOEON	--	--	--	--	--
...BAETISCIDAE					
....BAETISCA	--	--	--	--	3
...CAENIDAE					
....CAENIS	--	--	--	--	--
...EPHEMERELLIDAE					
....EPHEMERELLA	--	51	--	--	--
...HEPTAGENIIDAE					
....EPEORUS	28	--	--	--	--
....STENACRON	--	--	--	--	--
....STENONEMA	--	3	3	210	5
....UNKNOWN GENUS	--	--	--	--	--
...LEPTOPHLEBIIDAE					
....PARALEPTOPHLEBIA	--	--	--	--	--
...OLIGONEURIIDAE					
....HOMOEONEURIA	--	1	--	--	--
...SIPHLONURIDAE					
....ISONYCHIA	46	--	32	--	5
...TRICORYTHIDAE					
....TRICORYTHODES	--	--	--	--	3
..HEMIPTERA					
...					
....UNKN.GENUS	--	--	--	2	--
...VELIIDAE					
....MICROVELIA	--	--	--	1	--
....RHAGOVELIA	--	--	--	1	--
..LEPIDOPTERA					
...NOCTUIDAE					
....UNKNOWN GENUS	--	--	--	--	--
..MEGALOPTERA					
...CORYDALIDAE					
....CORYDALUS	--	--	--	--	--
.....C.CORNUTUS	4	3	2	1	5
....NIGRONIA	--	--	6	34	--
...SIALIDAE					
....SIALIS	--	--	--	--	--
..ODONATA					
...AESHNIDAE					
....BOYERIA	--	1	1	--	--
...AGRIIDAE					
....AGRION	--	1	--	--	--
...GOMPHIDAE					
....GOMPHUS	--	--	--	--	--
....LANTHUS	1	--	--	--	--
....UNKNOWN GENUS	--	2	2	--	--
..PLECOPTERA					
...CHLOROPERLIDAE					
....ALLOPERLA	--	5	--	--	--
....HASTAPERLA	--	--	--	--	--
...LEUCTRIDAE					
....LEUCTRA	--	--	--	--	--
...NEMOURIDAE					
....SOYEDINA	3	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	MAR 27,78	APR 26,78	JUN 2,78	JUL 11,78	DEC 6,78
TIME	1200	1200	1245	1330	1215
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
...PERLIDAE					
....(NEO)PHASGANOPHORA	--	--	3	--	--
....ACRONEURIA	--	--	--	--	--
...PERLODIDAE					
....ISOGENOIDES	2	--	--	--	--
...TAENIOPTERYGIDAE					
....TAENONEMA	--	1	--	--	--
..TRICHOPTERA					
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	5	--	183	105	4
....DIPLECTRONA	--	7	--	--	--
....HYDROPSYCHE	--	--	21	--	--
...LEPTOCERIDAE					
....CERACLEA	--	--	--	--	--
...PHILOPOTAMIDAE					
....CHIMARRA	--	--	--	--	5
...POLYCENTROPODIDAE					
....CYRNELLUS	1	--	--	--	--
....NEURECLIPSIS	3	--	--	--	--
....POLYCENTROPUS	--	--	--	--	--
...RHYACOPHILIDAE					
....RHYACOPHILA	--	--	1	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JAN 5,79	FEB 9,79	FEB 28,79	MAR 28,79	APR 25,79
TIME	1130	1130	1100	1030	1000
TOTAL COUNT	56	25	50	63	56
DIVERSITY: PHYLUM	0.2	0.0	0.0	0.0	0.0
.CLASS	0.6	0.4	0.4	0.2	0.6
..ORDER	2.4	2.2	2.0	2.5	2.4
...FAMILY	3.2	2.9	2.7	3.0	2.8
....GENUS	3.6	3.5	2.9	3.2	2.9
....GENUS-INSECTA	3.4	3.3	2.7	3.1	2.7
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..PROSOPORA					
...LUMBRICULIDAE					
....UNKNOWN GENUS	--	--	--	--	--
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	2	--	--	--	--
....UNKNOWN GENUS #1	--	--	--	--	--
....UNKNOWN GENUS #2	--	--	--	--	--
ARTHROPODA (ARTHROPODS)					
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
.CRUSTACEA					
..DECAPODA					
...ASTACIDAE					
....UNKNOWN GENUS	1	--	--	--	--
..ISOPODA					
...ASELLIDAE					
....LIRCEUS	3	2	4	2	8
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	18	4	23	9	2
...ELMIDAE					
....ANCYRONYX	1	--	--	--	--
.....A.VARIEGATA	--	--	1	--	--
....DUBIRAPHIA	--	3	--	--	--
....GONIELMIS	--	--	--	--	--
....MACRONYCHUS	1	--	--	--	--
.....M.GLABRATUS	--	2	--	--	--
....OPTIOSERVUS	1	--	--	1	--
....OULIMNIUS	2	--	--	--	--
....PROMORESIA	--	--	--	--	--
....STENELMIS	2	4	3	6	2
..DIPTERA					
...CERATOPOGONIDAE=HELEIDAE					
....UNKNOWN GENUS	--	--	--	--	--
...CHIRONOMIDAE					
....."CORDITES"	--	--	--	--	--
....ABLABESMYIA	--	--	2	--	--
....BRILLIA	--	--	--	--	--
....CAMPTOCLADIUS	--	--	--	--	--
....CHAETOCLADIUS	1	--	--	--	7
....CONCHAPELOPIA	--	--	--	2	2
....CONCHAPELOPIA,ARCTO,RHEO	--	--	--	--	--
....CRICOTOPUS	--	1	--	--	--
....CRYPTOCHIRONOMUS	--	--	--	--	--
....DEMICRYPTOCHIRONOMUS	--	--	--	--	--
....EUKIEFFERIELLA	3	--	--	--	--
....LABRUNDINIA	--	--	--	--	--
....LARSIA	--	--	--	2	--
....MICROPSECTRA	--	--	--	--	--
....NILOTANYPUS	--	--	--	--	--
....ORTHOCLADIUS	--	--	--	--	--
....PARACLADOPELMA	--	--	--	--	--
....PARAMETRIOCNEMUS	--	--	--	--	--
....PENTANEURA	--	--	--	--	--
....POLYPEDILUM	--	--	1	--	--
....PSECTROCLADIUS	--	--	--	--	--
....PSUEDORTHOCLADIUS	--	--	1	--	--
....RHEOCRICOTOPUS	--	--	--	--	--
....RHEOTANYTARSUS	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	JAN 5,79 1130	FEB 9,79 1130	FEB 28,79 1100	MAR 28,79 1030	APR 25,79 1000
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
....TANYTARSUS	--	--	--	--	--
....THIENEMANNIELLA	--	--	--	--	--
....TRICHOCLADIUS	--	--	--	--	--
....UNKN DIAMESINAE #2	2	--	--	--	--
....ZAVRELIMYIA	--	--	--	--	--
...EMPIDIDAE					
....UNKNOWN GENUS	--	--	--	--	--
...SIMULIIDAE					
....PROSIMULIUM	--	--	1	--	--
....SIMULIUM	--	--	1	--	--
....UNKNOWN GENUS	--	--	--	--	--
...TIPULIDAE					
....ANTOCHA	--	--	--	--	--
....HEXATOMA	--	--	--	--	--
....TIPULA	4	1	--	--	3
....UNKNOWN GENUS	--	--	1	--	--
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	--	--	3	19	16
....PSEUDOCLOEON	--	--	--	--	--
...BAETISCIDAE					
....BAETISCA	--	--	--	--	--
...CAENIDAE					
....CAENIS	5	3	5	--	--
...EPHEMERELLIDAE					
....EPHEMERELLA	--	--	--	--	--
...HEPTAGENIIDAE					
....EPEORUS	--	--	--	--	--
....STENACRON	--	--	--	--	--
....STENONEMA	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--
...LEPTOPHLEBIIDAE					
....PARALEPTOPHLEBIA	--	--	--	--	2
...OLIGONEURIIDAE					
....HOMOEONEURIA	--	--	--	--	--
...SIPHLONURIDAE					
....ISONYCHIA	2	--	--	--	--
...TRICORYTHIDAE					
....TRICORYTHODES	--	--	--	--	--
..HEMIPTERA					
...					
....UNKN.GENUS	--	--	--	--	--
...VELIIDAE					
....MICROVELIA	--	--	--	--	--
....RHAGOVELIA	--	--	--	--	--
..LEPIDOPTERA					
...NOCTUIDAE					
....UNKNOWN GENUS	--	--	--	1	--
..MEGALOPTERA					
...CORYDALIDAE					
....CORYDALUS	3	--	--	--	--
.....C.CORNUTUS	--	--	--	2	1
....NIGRONIA	--	1	--	--	--
...SIALIDAE					
....SIALIS	1	--	--	--	--
..ODONATA					
...AESHNIDAE					
....BOYERIA	--	--	--	--	--
...AGRIIDAE					
....AGRION	--	--	--	--	--
...GOMPHIDAE					
....GOMPHUS	--	--	--	1	--
....LANTHUS	--	--	1	--	--
....UNKNOWN GENUS	--	--	--	--	--
..PLECOPTERA					
...CHLOROPERLIDAE					
....ALLOPERLA	--	--	--	--	--
....HASTAPERLA	--	--	--	--	--
...LEUCTRIDAE					
....LEUCTRA	--	1	--	11	--
...NEMOURIDAE					
....SOYEDINA	--	--	--	--	--
....UNKNOWN GENUS	--	1	2	--	--
...PERLIDAE					
....(NEO)PHASGANOPHORA	--	--	--	2	12
....ACRONEURIA	--	--	--	2	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JAN 5,79	FEB 9,79	FEB 28,79	MAR 28,79	APR 25,79
TIME	1130	1130	1100	1030	1000
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
...PERLODIDAE					
....ISOGENOIDES	--	--	--	--	--
...TAENIOPTERYGIDAE					
....TAENONEMA	--	--	--	--	--
..TRICHOPTERA					
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	2	1	--	--	--
....DIPLECTRONA	--	--	--	1	--
....HYDROPSYCHE	--	--	--	--	--
...LEPTOCERIDAE					
....CERACLEA	--	--	1	--	--
...PHILOPOTAMIDAE					
....CHIMARRA	1	--	--	--	--
...POLYCENTROPODIDAE					
....CYRNELLUS	--	--	--	--	--
....NEURECLIPSIS	--	--	--	--	--
....POLYCENTROPUS	--	1	--	--	--
...RHYACOPHILIDAE					
....RHYACOPHILA	1	--	--	2	1

DATE	MAY 25,79	JUN 25,79	JUL 30,79	SEP 26,79
TIME	0930	1100	1030	1530
TOTAL COUNT	752	1140	123	69
DIVERSITY: PHYLUM	0.0	0.0	0.4	0.3
.CLASS	0.1	0.2	1.4	0.5
..ORDER	1.2	1.7	2.7	2.3
...FAMILY	2.1	1.7	3.2	3.2
....GENUS	3.4	3.3	4.3	3.8
....GENUS-INSECTA	3.3	3.2	4.1	3.6
ORGANISM	COUNT	COUNT	COUNT	COUNT
ANNELIDA				
.OLIGOCHAETA				
..PROSOPORA				
...LUMBRICULIDAE				
....UNKNOWN GENUS	4	--	--	--
..UNKNOWN ORDER				
...UNKNOWN FAMILY				
....UNKNOWN GENUS	--	--	--	3
....UNKNOWN GENUS #1	--	--	5	--
....UNKNOWN GENUS #2	--	--	5	--
ARTHROPODA (ARTHROPODS)				
.ARACHNIDA				
..HYDRACARINA				
...UNKNOWN FAMILY				
....UNKNOWN GENUS	4	28	--	--
.CRUSTACEA				
..DECAPODA				
...ASTACIDAE				
....UNKNOWN GENUS	--	--	--	--
..ISOPODA				
...ASELLIDAE				
....LIRCEUS	4	4	4	2
.INSECTA				
..COLEOPTERA				
...DRYOPIDAE				
....HELICHUS	4	--	--	0
...ELMIDAE				
....ANCYRONYX	--	--	--	--
.....A.VARIEGATA	--	--	--	--
....DUBIRAPHIA	--	--	--	--
....GONIELMIS	--	--	--	--
....MACRONYCHUS	--	--	--	--
.....M.GLABRATUS	--	--	--	--
....OPTIOSERVUS	--	4	1	--
....OULIMNIUS	--	--	--	--
....PROMORESIA	--	--	--	--
....STENELMIS	4	4	10	11

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	MAY 25,79 0930	JUN 25,79 1100	JUL 30,79 1030	SEP 26,79 1530
ORGANISM	COUNT	COUNT	COUNT	COUNT
..DIPTERA				
...CERATOPOGONIDAE=HELEIDAE				
....UNKNOWN GENUS	16	--	4	--
...CHIRONOMIDAE				
....."CORDITES"	16	--	8	--
....ABLABESMYIA	20	--	--	--
....BRILLIA	--	--	--	--
....CAMPTOCLADIUS	--	--	--	--
....CHAETOCLADIUS	--	--	--	--
....CONCHAPELOPIA	--	44	--	--
....CONCHAPELOPIA,ARCTO,RHEO	60	--	1	1
....CRICOTOPUS	24	--	--	--
....CRYPTOCHIRONOMUS	--	40	--	--
....DEMICRYPTOCHIRONOMUS	--	8	--	--
....EUKIEFFERIELLA	40	--	--	--
....LABRUNDINIA	4	--	--	--
....LARSIA	--	--	--	--
....MICROPSECTRA	52	124	1	--
....NILOTANYPUS	--	4	--	--
....ORTHOCLADIUS	--	8	3	7
....PARACLADOPELMA	--	4	--	--
....PARAMETRIOCNEMUS	24	140	6	--
....PENTANEURA	--	--	2	1
....POLYPEDILUM	20	72	2	2
....PSECTROCLADIUS	28	--	--	--
....PSUEDORTHOCLADIUS	--	--	--	--
....RHEOCRICOTOPUS	--	76	--	2
....RHEOTANYTARSUS	--	48	--	1
....TANYTARSUS	--	4	1	1
....THIENEMANNIELLA	24	16	--	1
....TRICHOCLADIUS	--	--	--	--
....UNKN DIAMESINAE #2	--	--	--	--
....ZAVRELIMYIA	--	--	--	--
...EMPIDIDAE				
....UNKNOWN GENUS	--	--	5	2
...SIMULIIDAE				
....PROSIMULIUM	--	--	--	--
....SIMULIUM	248	--	--	14
....UNKNOWN GENUS	--	--	2	--
...TIPULIDAE				
....ANTOCHA	--	--	--	--
....HEXATOMA	--	--	1	--
....TIPULA	--	--	--	--
....UNKNOWN GENUS	--	--	--	--
..EPHEMEROPTERA				
...BAETIDAE				
....BAETIS	--	--	--	--
....PSEUDOCLOEON	20	--	--	--
...BAETISCIDAE				
....BAETISCA	--	--	--	--
...CAENIDAE				
....CAENIS	--	--	--	1
...EPHEMERELLIDAE				
....EPHEMERELLA	--	--	--	--
...HEPTAGENIIDAE				
....EPEORUS	--	--	--	--
....STENACRON	--	28	--	--
....STENONEMA	--	--	2	--
....UNKNOWN GENUS	--	--	--	2
...LEPTOPHLEBIIDAE				
....PARALEPTOPHLEBIA	--	--	--	--
...OLIGONEURIIDAE				
....HOMOEONEURIA	--	--	--	--
...SIPHLONURIDAE				
....ISONYCHIA	--	12	--	1
...TRICORYTHIDAE				
....TRICORYTHODES	--	--	--	--
..HEMIPTERA				
....UNKN.GENUS	--	--	--	--
...VELIIDAE				
....MICROVELIA	--	--	--	--
....RHAGOVELIA	--	--	--	--
..LEPIDOPTERA				
...NOCTUIDAE				
....UNKNOWN GENUS	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	MAY 25,79 0930	JUN 25,79 1100	JUL 30,79 1030	SEP 26,79 1530
ORGANISM	COUNT	COUNT	COUNT	COUNT
..MEGALOPTERA				
...CORYDALIDAE				
....CORYDALUS	--	4	--	2
.....C.CORNUTUS	4	--	--	--
....NIGRONIA	--	56	5	--
...SIALIDAE				
....SIALIS	--	--	--	--
..ODONATA				
...AESHNIDAE				
....BOYERIA	--	--	--	1
...AGRIIDAE				
....AGRION	--	--	--	--
...GOMPHIDAE				
....GOMPHUS	--	--	--	--
....LANTHUS	--	--	--	--
....UNKNOWN GENUS	--	4	1	--
..PLECOPTERA				
...CHLOROPERLIDAE				
....ALLOPERLA	--	--	--	--
....HASTAPERLA	8	--	--	--
...LEUCTRIDAE				
....LEUCTRA	--	--	1	--
...NEMOURIDAE				
....SOYEDINA	--	--	--	--
....UNKNOWN GENUS	--	--	--	--
...PERLIDAE				
....(NEO)PHASGANOPHORA	--	--	--	--
....ACRONEURIA	--	--	6	--
...PERLODIDAE				
....ISOGENOIDES	--	--	--	--
...TAENIOPTERYGIDAE				
....TAENONEMA	--	--	--	--
..TRICHOPTERA				
...HYDROPSYCHIDAE				
....CHEUMATOPSYCHE	124	408	9	8
....DIPLECTRONA	--	--	--	--
....HYDROPSYCHE	--	--	--	--
...LEPTOCERIDAE				
....CERACLEA	--	--	--	--
...PHILOPOTAMIDAE				
....CHIMARRA	--	--	--	2
...POLYCENTROPODIDAE				
....CYRNELLUS	--	--	--	--
....NEURECLIPSIS	--	--	--	--
....POLYCENTROPUS	--	--	--	--
...RHYACOPHILIDAE				
....RHYACOPHILA	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL (Lat 33 24 32 Long 087 30 45)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
02...	1256	1.1	14	6.1	16.5	40	8.4	4	1	.0	.0	.8
NOV												
06...	0900	1.7	13	5.8	10.5	--	--	--	--	.0	.0	--
DEC												
06...	1400	2.5	19	6.0	9.0	--	10.8	--	--	.0	.0	--
JAN												
03...	1100	15	21	6.1	4.0	10	--	5	2	.0	.0	1.0
30...	1430	15	19	6.4	6.5	--	12.0	--	--	.0	.0	--
FEB												
27...	1400	20	18	7.0	10.5	--	--	--	--	.0	.0	--
MAR												
28...	1400	8.7	16	6.1	15.0	--	9.8	--	--	.0	.0	--
APR												
27...	1330	12	15	6.5	16.0	10	10.0	4	0	.0	.0	.6
MAY												
23...	1015	5.8	15	6.0	19.0	--	8.8	--	--	.0	.0	--
JUN												
04...	1425	4.7	16	5.2	20.0	--	--	--	--	--	--	--
JUL												
31...	1400	4.0	12	5.5	25.0	30	8.4	4	2	.0	.0	.6
SEP												
04...	0900	2.9	14	6.0	21.5	35	--	3	1	.0	.0	.7

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
OCT											
02...	.6	1.4	37	.3	1.9	.5	4	0	3	5.1	--
NOV											
06...	--	--	--	--	--	--	6	0	5	15	--
DEC											
06...	--	--	--	--	--	--	3	0	2	4.8	--
JAN											
03...	.7	1.0	27	.2	1.5	.5	4	0	3	5.1	.0
30...	--	--	--	--	--	--	2	0	2	1.3	--
FEB											
27...	--	--	--	--	--	--	6	0	5	1.0	--
MAR											
28...	--	--	--	--	--	--	2	0	2	2.5	--
APR											
27...	.6	1.1	34	.2	1.6	.5	5	0	4	2.5	.0
MAY											
23...	--	--	--	--	--	--	3	0	2	4.8	--
JUN											
04...	--	--	--	--	--	--	2	0	2	20	--
JUL											
31...	.5	.9	33	.2	1.3	.4	3	0	2	15	.0
SEP											
04...	.4	.9	33	.2	1.3	.4	3	0	2	4.8	.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)
OCT										
02...	4.0	1.5	.0	6.4	17	.02	.05	.00	.01	--
NOV										
06...	2.9	--	--	--	--	--	--	--	--	--
DEC										
06...	3.2	--	--	--	--	--	--	--	--	--
JAN										
03...	4.1	1.8	.0	6.4	18	.02	.75	.01	.00	--
30...	4.4	--	--	--	--	--	--	--	--	--
FEB										
27...	2.5	--	--	--	--	--	--	--	--	--
MAR										
28...	1.9	--	--	--	--	--	--	--	--	--
APR										
27...	2.2	1.2	.0	6.2	15	.02	.49	.00	.00	.00
28...	--	--	--	--	--	--	--	--	--	--
MAY										
23...	2.1	--	--	--	--	--	--	--	--	--
JUN										
04...	2.3	--	--	--	--	--	--	--	--	--
JUL										
31...	.3	1.2	.0	6.9	12	.03	.22	.03	.01	.03
SEP										
04...	1.1	1.2	.0	6.9	13	.03	.16	.00	--	--

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDED RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	BORON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)
OCT											
02...	--	--	40	--	--	--	--	--	--	--	--
JAN											
03...	130	--	30	920	1	0	1	60	0	--	0
APR											
27...	110	70	40	--	--	--	--	--	--	--	--
JUN											
04...	--	--	--	--	--	--	--	--	--	--	--
JUL											
31...	130	100	30	620	1	1	0	20	13	0	0
SEP											
04...	150	100	50	--	--	--	0	--	--	--	--

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)
OCT											
02...	--	--	--	--	--	--	--	--	--	--	--
JAN											
03...	5	10	<10	0	10	--	0	3	10	1	0
APR											
27...	--	--	--	--	--	--	--	--	--	--	--
JUN											
04...	--	--	--	--	--	--	--	--	--	--	--
JUL											
31...	1	<10	10	10	<10	0	0	0	<10	4	2
SEP											
04...	--	<10	--	--	<10	--	--	--	<10	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)
OCT											
02...	--	--	--	--	230	--	--	--	--	--	--
JAN											
03...	1	10	240	--	40	4700	--	0	36	100	0
APR											
27...	--	--	250	170	80	--	--	--	--	--	--
JUN											
04...	--	--	400	--	--	--	--	--	--	--	--
JUL											
31...	2	<10	490	450	40	4500	7	6	1	<10	0
SEP											
04...	--	<10	520	450	70	7100	--	--	--	<10	--

DATE	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)
OCT											
02...	--	--	--	--	0	--	--	--	--	--	--
JAN											
03...	0	0	10	0	10	90	<.5	.0	<.5	.02	0
APR											
27...	--	--	10	0	10	--	--	--	--	--	--
JUN											
04...	--	--	30	--	--	--	--	--	--	--	--
JUL											
31...	0	1	20	10	8	120	<.5	.0	<.5	.00	0
SEP											
04...	--	--	30	10	20	200	--	--	--	.00	--

DATE	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR)	STRON-TIUM, SUS-PENDED RECOV. (UG/L AS SR)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	STRON-TIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
OCT											
02...	--	--	--	--	--	--	--	--	--	--	--
JAN											
03...	0	0	0	--	0	50	10	10	10	0	20
APR											
27...	--	--	--	--	--	--	--	--	--	--	--
JUN											
04...	--	--	--	--	--	--	--	--	--	--	--
JUL											
31...	0	0	0	10	5	5	<10	10	8	2	<10
SEP											
04...	--	--	0	--	--	--	--	--	--	--	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)	CARBON, ORGANIC TOTAL (MG/L AS C)	PHENOLS (UG/L)
JAN												
03...	<.4	--	<.4	--	.4	<.4	.4	<.4	--	--	2.1	4
JUL												
31...	<.4	<.3	<.4	<.3	.7	<.4	.7	<.4	.03	.09	--	2

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
02...	1256	1.1	4	.01
NOV				
06...	0900	1.7	1	.00
DEC				
06...	1400	2.5	17	.11
JAN				
03...	1100	15	1	.04
30...	1430	15	2	.08
FEB				
27...	1400	20	9	.49
MAR				
28...	1400	8.7	6	.14
APR				
27...	1330	12	5	.16
MAY				
23...	1015	5.8	7	.11
JUN				
04...	1425	4.7	19	.24
JUL				
31...	1400	4.0	--	--
SEP				
04...	0900	2.9	10	.08

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DIATOM SPECIES ENUMERATION

JUNE 22, 1977

ORGANISM NAME	CELLS/CM2	PER CENT
BACILLARIOPHYTA		
.BACILLARIOPHYCEAE		
..ACHNANTHALES		
...ACHNANTHACEAE		
....ACHNANTHES		
.....A.LINEARIS F.CURTA	1900	2
.....A.MINUTISSIMA	29000	35
..EUNOTIALES		
...EUNOTIACEAE		
....EUNOTIA		
.....E.PECTINALIS V.MINOR	760	1
..FRAGILARIALES		
...FRAGILARIACEAE		
....FRAGILARIA		
.....F.VAUCHERIAE	14000	16
....SYNEDRA		
.....S.ACUS		0
....TABELLARIA		
.....T.FLOCCULOSA	380	0
..NAVICULALES		
...CYMBELLACEAE		
....CYMBELLA		
.....C.LUNATA	760	1
...GOMPHONEMACEAE		
....GOMPHONEMA		
.....G.BRASILIENSE	12000	15
.....G.MANUBRIUM	1100	1
.....G.PARVULUM	19000	23
.....G.TRUNCATUM		0
...NAVICULACEAE		
....ANOMOEONEIS		
.....A.SERIANS		0
....FRUSTULIA		
.....F.RHOMBOIDES	1900	2
....NAVICULA		
.....N.CRYPTOCEPHALA V.VENETA	380	0
.....N.LANCEOLATA	760	1
.....N.RADIOSA	1500	2

DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

ORDER 1.5
FAMILY 1.8
GENERA 1.9
SPECIES 2.5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	APR 28,78	MAY 31,78	JUL 10,78	AUG 3,78	AUG 28,78
TIME	0845	1300	1000	0930	1100
TOTAL COUNT	374	1558	815	196	184
DIVERSITY: PHYLUM	0.0	0.0	0.0	0.0	0.2
.CLASS	0.0	0.0	0.0	0.0	0.2
..ORDER	1.7	0.7	1.9	2.4	2.0
...FAMILY	2.1	1.4	2.3	3.0	2.7
....GENUS	2.9	2.3	3.5	4.2	4.3
....GENUS-INSECTA	2.9	2.3	3.5	4.2	4.3
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..PLESIOPORA					
...ENCHYTRAEIDAE					
....UNKNOWN GENUS	--	--	--	--	--
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	5
ARTHROPODA (ARTHROPODS)					
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
.CRUSTACEA					
..DECAPODA					
...ASTACIDAE					
....UNKNOWN GENUS	--	--	1	--	--
..ISOPODA					
...ASELLIDAE					
....LIRCEUS	1	2	2	--	--
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	2	1	4	2	2
...ELMIDAE					
....ANCYRONYX	7	--	--	--	--
....DUBIRAPHIA	--	--	--	--	--
....OPTIOSERVUS	2	29	27	17	22
....OULIMNIUS	1	--	9	9	5
....PROMORESIA	1	--	3	--	--
....STENELMIS	4	7	9	11	2
...PSEPHENIDAE					
....ECTOPRIA	--	--	--	--	--
....PSEPHENUS	--	--	--	1	--
...PTILODACTYLIDAE					
....ANCHYTARSUS	--	--	--	--	6
.....A.BICOLOR	16	15	7	4	--
..DIPTERA					
...ATHERICIDAE=RHAGIONIDAE					
....ATHERIX	--	--	--	3	--
...CERATOPOGONIDAE=HELEIDAE					
....UNKNOWN GENUS	--	--	--	--	--
...CHIRONOMIDAE					
....ABLABESMYIA	--	--	13	5	7
....BRILLIA	4	16	--	--	--
....CHAETOCLADIUS	--	--	--	--	--
....CHIRONOMUS	--	--	--	--	--
....CLADOTANYTARSUS	--	--	--	--	--
....CONCHAPELOPIA	17	75	54	2	--
....CONCHAPELOPIA,ARCTO,RHEO	--	--	--	--	6
....CONSTEMPELLINA	--	--	--	--	--
....CORYNONEURA	--	--	5	--	5
....CRICOTOPUS	--	14	9	2	21
....CRYPTOCHIRONOMUS	--	--	3	1	--
....EUKIEFFERIELLA	53	172	132	6	1
....HETEROTRISSOCLADIUS	--	--	--	--	--
....LABRUNDINIA	--	--	3	2	1
....LARSIA	--	--	--	1	--
....LIMNOCHIRONOMUS	--	--	--	--	5
....MICROPSECTRA	--	--	--	--	--
....MICROTENDIPES	--	--	--	--	--
....ORTHOCLADIUS	--	--	--	--	1
....PARAMETRIOCNEMUS	--	--	--	--	--
....PHAENOPSECTRA	--	--	--	--	--
....POLYPEDILUM	162	875	224	17	23
....POTTHASTIA	--	--	--	--	--
....PROCLADIUS	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	APR 28,78 0845	MAY 31,78 1300	JUL 10,78 1000	AUG 3,78 0930	AUG 28,78 1100
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
....PSECTROCLADIUS	--	--	--	--	1
....RHEOCRICOTOPUS	--	--	--	--	7
....RHEOTANYTARSUS	--	--	5	6	--
....SMITTIA	--	--	--	--	2
....STENOCHIRONOMUS	--	--	--	--	--
....STICTOCHIRONOMUS	--	--	--	1	--
....TANYTARSUS	--	--	7	1	5
....THIENEMANNIELLA	--	--	--	2	--
....TRICHOCLADIUS	--	--	--	2	--
....UNKNOWN GENUS #1	--	--	--	1	--
....ZAVRELIA	--	--	--	--	--
....ZAVRELIMYIA	--	--	5	2	1
...EMPIDIDAE					
....HEMERODROMIA	--	2	3	--	--
...SIMULIIDAE					
....SIMULIUM	--	232	14	6	10
...TABANIDAE					
....TABANUS	1	--	--	--	--
...TIPULIDAE					
....ANTOCHA	--	--	--	1	--
....DICRANOTA	--	3	--	1	--
....HEXATOMA	--	--	--	--	--
....ORMOSIA	--	--	--	--	--
....TIPULA	1	2	1	--	--
....UNKNOWN GENUS	--	--	--	--	1
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	--	--	--	--	--
....PSEUDOCLOEON	--	--	--	--	1
...BAETISCIDAE					
....BAETISCA	--	--	--	--	--
...CAENIDAE					
....CAENIS	--	--	--	--	--
...EPHEMERELLIDAE					
....EPHEMERELLA	12	--	--	--	--
...HEPTAGENIIDAE					
....STENONEMA	42	31	117	37	13
...LEPTOPHLEBIIDAE					
....LEPTOPHLEBIA	--	12	2	--	--
....PARALEPTOPHLEBIA	--	--	--	--	--
...SIPHLONURIDAE					
....ISONYCHIA	--	--	--	--	--
....SIPHLONURUS	--	--	--	--	--
..MEGALOPTERA					
...CORYDALIDAE					
....CORYDALUS	--	--	--	--	2
.....C.CORNUTUS	2	2	1	13	--
....NIGRONIA	--	--	18	3	1
...SIALIDAE					
....SIALIS	--	--	--	--	--
..ODONATA					
...AESHNIDAE					
....BOYERIA	--	--	--	--	1
...COENAGRIIDAE					
....UNKNOWN GENUS	--	--	--	--	--
...GOMPHIDAE					
....GOMPHUS	--	--	2	--	--
....LANTHUS	--	--	--	6	--
....UNKNOWN GENUS	5	5	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	APR 28,78 0845	MAY 31,78 1300	JUL 10,78 1000	AUG 3,78 0930	AUG 28,78 1100
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
..PLECOPTERA					
...CHLOROPERLIDAE					
....HASTAPERLA	14	26	13	7	--
...LEUCTRIDAE					
....LEUCTRA	--	--	--	--	3
...NEMOURIDAE					
....NEMOURA	1	--	--	--	--
...PELTOPERLIDAE					
....PELTOPERLA	3	--	2	--	2
...PERLIDAE					
....(NEO)PHASGANOPHORA	--	--	--	--	--
....ACRONEURIA	19	19	80	21	16
...PERLODIDAE					
....ISOGENUS	--	--	--	--	--
....ISOPERLA	--	--	--	--	--
...TAENIOPTERYGIDAE					
....TAENIOPTERYX	--	--	--	--	--
..TRICHOPTERA					
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	--	10	21	1	--
....DIPLECTRONA	--	--	--	--	--
....HYDROPSYCHE	--	--	--	1	2
...LIMNEPHILIDAE					
....PSYCHOGLYPHA	--	--	--	--	--
...PHILOPOTAMIDAE					
....CHIMARRA	--	--	--	--	3
...POLYCENTROPODIDAE					
....CYRNELLUS	--	8	19	1	--
....POLYCENTROPUS	--	--	--	--	--
...RHYACOPHILIDAE					
....RHYACOPHILA	4	--	--	--	1
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	OCT 2,78	NOV 13,78	DEC 6,78	JAN 3,79	JAN 30,79
TIME	1200	1000	1415	1100	1430
TOTAL COUNT	109	886	381	226	348
DIVERSITY: PHYLUM	0.0	0.0	0.0	0.0	0.0
.CLASS	0.1	0.1	0.0	0.2	0.1
..ORDER	2.0	1.5	2.1	2.0	0.6
...FAMILY	2.3	2.5	2.9	2.3	0.9
....GENUS	3.8	3.6	4.0	3.7	2.5
....GENUS-INSECTA	3.8	3.5	4.0	3.6	2.4
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..PLESIOPORA					
...ENCHYTRAEIDAE					
....UNKNOWN GENUS	--	--	--	--	--
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	2	--	--	--
ARTHROPODA (ARTHROPODS)					
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
.CRUSTACEA					
..DECAPODA					
...ASTACIDAE					
....UNKNOWN GENUS	1	3	--	2	--
..ISOPODA					
...ASELLIDAE					
....LIRCEUS	--	--	--	3	4
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	--	2	1	1	--
...ELMIDAE					
....ANCYRONYX	--	11	--	--	--
....DUBIRAPHIA	--	--	--	--	--
....OPTIOSERVUS	7	7	7	5	--
....OULIMNIUS	2	8	3	1	--
....PROMORESIA	--	--	--	--	--
....STENELMIS	--	7	--	--	--
...PSEPHENIDAE					
....ECTOPRIA	--	--	1	--	--
....PSEPHENUS	--	--	--	--	--
...PTILODACTYLIDAE					
....ANCHYTARSUS	--	10	--	--	--
.....A.BICOLOR	3	--	8	3	--
..DIPTERA					
...ATHERICIDAE=RHAGIONIDAE					
....ATHERIX	1	--	--	--	--
...CERATOPOGONIDAE=HELEIDAE					
....UNKNOWN GENUS	--	--	--	--	--
...CHIRONOMIDAE					
....ABLABESMYIA	1	--	--	--	--
....BRILLIA	--	4	5	--	--
....CHAETOCLADIUS	3	56	31	40	174
....CHIRONOMUS	--	--	--	--	--
....CLADOTANYTARSUS	--	--	4	--	--
....CONCHAPELOPIA	15	--	31	--	56
....CONCHAPELOPIA,ARCTO,RHEO	--	8	--	19	--
....CONSTEMPELLINA	--	--	--	--	--
....CORYNONEURA	--	--	--	--	--
....CRICOTOPUS	--	--	6	--	--
....CRYPTOCHIRONOMUS	--	--	--	--	--
....EUKIEFFERIELLA	--	222	13	12	12
....HETEROTRISSOCLADIUS	--	--	--	--	--
....LABRUNDINIA	--	--	--	--	--
....LARSIA	3	--	--	--	--
....LIMNOCHIRONOMUS	--	--	--	--	--
....MICROPSECTRA	4	--	--	--	--
....MICROTENDIPES	--	2	--	1	--
....ORTHOCLADIUS	--	2	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	OCT 2,78 1200	NOV 13,78 1000	DEC 6,78 1415	JAN 3,79 1100	JAN 30,79 1430
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
....PARAMETRIOCNEMUS	--	--	4	--	--
....PHAENOPSECTRA	1	--	--	--	--
....POLYPEDILUM	19	46	9	14	43
....POTTHASTIA	--	2	--	--	--
....PROCLADIUS	1	--	--	1	--
....PSECTROCLADIUS	2	4	--	12	12
....RHEOCRICOTOPUS	5	34	7	--	--
....RHEOTANYTARSUS	--	--	7	--	--
....SMITTIA	--	--	4	6	8
....STENOCHIRONOMUS	3	--	1	--	--
....STICTOCHIRONOMUS	--	--	--	--	--
....TANYTARSUS	--	8	3	--	--
....THIENEMANNIELLA	--	22	--	4	--
....TRICHOCLADIUS	--	--	--	--	--
....UNKNOWN GENUS #1	--	--	--	--	--
....ZAVRELIA	--	--	--	3	--
....ZAVRELIMYIA	--	--	--	--	--
...EMPIDIDAE					
....HEMERODROMIA	--	4	--	--	--
...SIMULIIDAE					
....SIMULIUM	3	196	45	--	9
...TABANIDAE					
....TABANUS	--	--	--	--	--
...TIPULIDAE					
....ANTOCHA	--	--	--	--	3
....DICRANOTA	--	--	7	2	--
....HEXATOMA	--	2	--	--	--
....ORMOSIA	--	--	--	--	--
....TIPULA	--	2	--	--	--
....UNKNOWN GENUS	--	--	--	--	--
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	--	--	--	--	--
....PSEUDOCLOEON	--	--	--	--	--
...BAETISCIDAE					
....BAETISCA	--	1	--	--	--
...CAENIDAE					
....CAENIS	--	--	--	--	--
...EPHEMERELLIDAE					
....EPHEMERELLA	--	3	--	1	--
...HEPTAGENIIDAE					
....STENONEMA	21	48	82	62	--
...LEPTOPHLEBIIDAE					
....LEPTOPHLEBIA	--	--	--	--	--
....PARALEPTOPHLEBIA	--	--	--	1	--
...SIPHLONURIDAE					
....ISONYCHIA	--	4	--	--	--
....SIPHLONURUS	--	--	7	--	--
..MEGALOPTERA					
...CORYDALIDAE					
....CORYDALUS	--	1	--	--	--
.....C.CORNUTUS	1	--	1	3	2
....NIGRONIA	3	--	1	--	--
...SIALIDAE					
....SIALIS	--	1	--	--	--
..ODONATA					
...AESHNIDAE					
....BOYERIA	--	--	--	--	--
...COENAGRIIDAE					
....UNKNOWN GENUS	--	--	--	1	--
...GOMPHIDAE					
....GOMPHUS	--	--	--	4	3
....LANTHUS	4	4	6	--	--
....UNKNOWN GENUS	--	--	--	--	--
..PLECOPTERA					
...CHLOROPERLIDAE					
....HASTAPERLA	--	--	--	--	--
...LEUCTRIDAE					
....LEUCTRA	--	110	40	4	--
...NEMOURIDAE					
....NEMOURA	--	--	--	--	--
...PELTOPERLIDAE					
....PELTOPERLA	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	OCT 2,78	NOV 13,78	DEC 6,78	JAN 3,79	JAN 30,79
TIME	1200	1000	1415	1100	1430
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
...PERLIDAE					
....(NEO)PHASGANOPHORA	--	1	2	3	--
....ACRONEURIA	2	11	6	--	--
...PERLODIDAE					
....ISOGENUS	--	--	--	--	--
....ISOPERLA	--	--	--	--	--
...TAENIOPTERYGIDAE					
....TAENIOPTERYX	--	22	--	--	--
..TRICHOPTERA					
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	--	7	12	9	12
....DIPLECTRONA	--	--	--	--	--
....HYDROPSYCHE	--	1	6	--	--
...LIMNEPHILIDAE					
....PSYCHOGLYPHA	--	--	--	--	--
...PHILOPOTAMIDAE					
....CHIMARRA	4	6	21	9	5
...POLYCENTROPODIDAE					
....CYRNELLUS	--	--	--	--	--
....POLYCENTROPUS	--	1	--	--	--
...RHYACOPHILIDAE					
....RHYACOPHILA	--	1	--	--	5
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--

DATE	FEB 27,79	FEB 27,79	MAR 28,79	APR 24,79	APR 28,79
TIME	1400	1500	1400	1400	0845
TOTAL COUNT	225	33	662	1520	374
DIVERSITY: PHYLUM	0.0	0.2	0.0	0.0	0.0
.CLASS	0.1	0.2	0.0	0.2	0.0
..ORDER	1.9	0.4	1.1	1.9	1.7
...FAMILY	2.9	1.7	2.0	3.0	2.1
....GENUS	3.9	2.5	3.5	4.0	2.9
....GENUS-INSECTA	3.9	2.4	3.5	3.9	2.9
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..PLESIOPORA					
...ENCHYTRAEIDAE					
....UNKNOWN GENUS	--	1	--	--	--
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	--
ARTHROPODA (ARTHROPODS)					
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	8	--
.CRUSTACEA					
..DECAPODA					
...ASTACIDAE					
....UNKNOWN GENUS	--	--	--	--	--
..ISOPODA					
...ASELLIDAE					
....LIRCEUS	2	--	--	24	1
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	--	--	--	--	2
...ELMIDAE					
....ANCYRONYX	--	--	--	--	7
....DUBIRAPHIA	1	--	--	--	--
....OPTIOSERVUS	3	--	--	--	2
....OULIMNIUS	--	--	--	16	1
....PROMORESIA	--	--	--	--	1
....STENELMIS	--	--	--	--	4

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	FEB 27,79 1400	FEB 27,79 1500	MAR 28,79 1400	APR 24,79 1400	APR 28,79 0845
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
...PSEPHENIDAE					
....ECTOPRIA	--	--	--	--	--
....PSEPHENUS	--	--	--	8	--
...PTILODACTYLIDAE					
....ANCHYTARSUS	3	--	--	--	--
.....A.BICOLOR	--	--	3	--	16
..DIPTERA					
...ATHERICIDAE=RHAGIONIDAE					
....ATHERIX	--	--	--	--	--
...CERATOPOGONIDAE=HELEIDAE					
....UNKNOWN GENUS	--	3	--	56	--
...CHIRONOMIDAE					
....ABLABESMYIA	--	--	--	--	--
....BRILLIA	--	--	--	--	4
....CHAETOCLADIUS	9	--	121	--	--
....CHIRONOMUS	--	--	17	--	--
....CLADOTANYTARSUS	--	--	--	--	--
....CONCHAPELOPIA	21	--	13	--	17
....CONCHAPELOPIA.ARCTO.RHEO	--	--	--	72	--
....CONSTEMPELLINA	--	1	--	--	--
....CORYNONEURA	--	--	--	32	--
....CRICOTOPUS	--	--	--	--	--
....CRYPTOCHIRONOMUS	--	--	--	16	--
....EUKIEFFERIELLA	19	--	49	16	53
....HETEROTRISSOCLADIUS	--	1	--	--	--
....LABRUNDINIA	--	--	--	--	--
....LARSIA	--	--	--	8	--
....LIMNOCHIRONOMUS	--	6	--	--	--
....MICROPSECTRA	5	--	29	120	--
....MICROTENDIPES	1	--	--	--	--
....ORTHOCLADIUS	--	1	27	--	--
....PARAMETRIOCNEMUS	--	--	--	24	--
....PHAENOPSECTRA	--	3	--	--	--
....POLYPEDILUM	27	--	171	288	162
....POTTHASTIA	--	--	--	--	--
....PROCLADIUS	--	--	--	--	--
....PSECTROCLADIUS	--	1	--	--	--
....RHEOCRICOTOPUS	--	--	--	--	--
....RHEOTANYTARSUS	--	--	--	--	--
....SMITTIA	--	--	--	--	--
....STENOCHIRONOMUS	--	--	--	--	--
....STICTOCHIRONOMUS	--	--	--	--	--
....TANYTARSUS	--	--	--	--	--
....THIENEMANNIELLA	--	--	--	--	--
....TRICHOCLADIUS	--	--	--	--	--
....UNKNOWN GENUS #1	--	--	--	--	--
....ZAVRELIA	--	--	--	--	--
....ZAVRELIMYIA	--	--	--	--	--
...EMPIDIDAE					
....HEMERODROMIA	--	--	--	--	--
...SIMULIIDAE					
....SIMULIUM	29	--	66	72	--
...TABANIDAE					
....TABANUS	--	--	--	--	1
...TIPULIDAE					
....ANTOCHA	--	--	--	--	--
....DICRANOTA	1	--	4	--	--
....HEXATOMA	1	--	--	--	--
....ORMOSIA	--	15	--	--	--
....TIPULA	9	--	3	--	1
....UNKNOWN GENUS	--	--	--	--	--
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	2	--	16	40	--
....PSEUDOCLOEON	--	--	--	40	--
...BAETISCIDAE					
....BAETISCA	--	--	--	--	--
...CAENIDAE					
....CAENIS	1	--	--	--	--
...EPHEMERELLIDAE					
....EPHEMERELLA	1	--	5	--	12
...HEPTAGENIIDAE					
....STENONEMA	37	--	56	24	42

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	FEB 27,79 1400	FEB 27,79 1500	MAR 28,79 1400	APR 24,79 1400	APR 28,79 0845
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
...LEPTOPHLEBIIDAE					
....LEPTOPHLEBIA	--	--	--	--	--
....PARALEPTOPHLEBIA	--	--	41	88	--
...SIPHLONURIDAE					
....ISONYCHIA	--	--	--	--	--
....SIPHLONURUS	--	--	--	--	--
..MEGALOPTERA					
...CORYDALIDAE					
....CORYDALUS	--	--	--	--	--
.....C.CORNUTUS	3	--	--	--	2
....NIGRONIA	--	--	--	--	--
...SIALIDAE					
....SIALIS	--	--	--	--	--
..ODONATA					
...AESHNIDAE					
....BOYERIA	--	--	--	--	--
...COENAGRIIDAE					
....UNKNOWN GENUS	--	--	--	--	--
...GOMPHIDAE					
....GOMPHUS	--	--	--	--	--
....LANTHUS	--	--	2	--	--
....UNKNOWN GENUS	1	--	--	8	5
..PLECOPTERA					
...CHLOROPERLIDAE					
....HASTAPERLA	--	--	--	--	14
...LEUCTRIDAE					
....LEUCTRA	--	--	--	320	--
...NEMOURIDAE					
....NEMOURA	--	--	--	--	1
...PELTOPERLIDAE					
....PELTOPERLA	5	--	--	32	3
...PERLIDAE					
....(NEO)PHASGANOPHORA	10	--	6	--	--
....ACRONEURIA	--	--	2	8	19
...PERLODIDAE					
....ISOGENUS	13	--	--	--	--
....ISOPERLA	13	--	2	--	--
...TAENIOPTERYGIDAE					
....TAENIOPTERYX	--	--	--	--	--
..TRICHOPTERA					
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	4	--	7	24	--
....DIPLECTRONA	3	--	--	--	--
....HYDROPSYCHE	--	--	1	--	--
...LIMNEPHILIDAE					
....PSYCHOGLYPHA	--	1	--	--	--
...PHILOPOTAMIDAE					
....CHIMARRA	1	--	--	--	--
...POLYCENTROPODIDAE					
....CYRNELLUS	--	--	--	16	--
....POLYCENTROPUS	--	--	4	--	--
...RHYACOPHILIDAE					
....RHYACOPHILA	--	--	2	--	4
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	1	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464300 BINION CREEK NEAR MOORE'S BRIDGE, AL (Lat 33 26 33 Long 087 39 54)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
06...	0900	17	22	6.3	22.0	10	0	8	8.0	--
AUG										
27...	1115	14	20	5.9	24.5	6	0	5	12	1.2

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
06...	--	--	--	--	--	2800	2800	50	--	--
AUG										
27...	0	<10	<10	<10	<10	2700	2600	100	2000	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
06...	340	80	260	--	--	--	--	9	.43
AUG									
27...	340	60	280	940	.00	0	<10	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464313 BARBEE CREEK NEAR NEW LEXINGTON, AL (Lat 33 31 47 Long 087 39 30)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN 06...	1030	2.0	30	5.7	19.5	20	7	2	.0	.0	1.4
AUG 30...	1030	1.1	29	6.4	22.0	15	7	0	.0	.0	1.3

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN 06...	.8	1.7	32	.3	2.6	.9	6	0	5	19	.0
AUG 30...	.8	2.0	36	.3	3.0	1.0	8	0	7	5.1	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN 06...	2.1	2.8	.0	7.5	--	24	.03	.13	.79	390
AUG 30...	1.9	2.6	.0	8.1	28	25	.04	.08	.85	200

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN 06...	350	40	1300	1100	190	--	0	310	92	.50
AUG 30...	190	10	950	720	230	260	0	260	30	.09

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464317 BARBEE CREEK NEAR SAMANTHA, AL (Lat 33 30 27 Long 087 38 48)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY TOTAL HEATED (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUN											
06...	0815	2.9	382	7.5	20.5	10	190	100	.0	.0	40
AUG											
30...	1215	2.0	265	8.0	27.0	8	130	59	.0	.0	29

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE DIS-SOLVED (MG/L AS S)
JUN											
06...	21	5.4	6	.2	8.3	2.9	100	0	82	5.1	.0
AUG											
30...	13	4.2	7	.2	6.8	2.6	86	0	71	1.4	.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)
JUN										
06...	110	3.1	.0	6.6	251	242	.34	1.97	.75	210
AUG										
30...	56	5.5	.1	6.6	177	161	.24	.96	.45	190

DATE	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN										
06...	180	30	700	670	30	--	0	440	6	.05
AUG										
30...	180	10	680	670	10	300	30	270	13	.07

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464640 CARROLL CREEK NEAR BROWNVILLE, AL (Lat 33 20 23 Long 087 39 26)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
07...	0815	4.1	20	5.9	23.0	6	0	5	12	.8
AUG										
27...	0915	2.1	16	5.6	25.0	6	0	5	24	4.4

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
07...	--	--	--	--	--	2600	2300	270	--	--
AUG										
27...	0	<10	<10	<10	<10	2000	2000	20	1700	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
07...	550	100	450	--	--	--	--	8	.09
AUG									
27...	370	40	330	210	.00	0	<10	5	.03

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464800 LAKE TUSCALOOSA RESERVOIR NEAR TUSCALOOSA, AL (Lat 33 16 54 Long 087 31 06)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)
JUN 07...	1345	29	7.0	26.0	5	0	4	.8	5.2	--	--	--
AUG 27...	1430	34	6.5	29.0	8	0	7	4.0	7.2	<10	140	140

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	SEDIMENT, SUSPENDED (MG/L)
JUN 07...	--	480	430	50	--	--	20	10	10	--	--	2
AUG 27...	60	60	30	30	92000	280	20	20	0	10000	220	1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02471010 MOBILE RIVER AT U.S. HIGHWAY 90 NEAR PRICHARD, AL (Lat 30 44 00 Long 088 02 35)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO
OCT											
29...	1005	31100	8.0	23.0	4600	4500	290	930	7500	77	48
MAR											
17...	0900	93	7.1	13.5	32	10	9.9	1.8	4.6	23	.4

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
OCT										
29...	280	110	0	90	1.8	2000	13000	.6	1.9	24100
MAR										
17...	1.5	27	0	22	3.4	15	4.7	.0	5.7	57

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
OCT										
29...	32.8	1	0	3	10	3	30	<.5	5800	10
MAR										
17...	.08	0	15	0	130	230	30	.5	50	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02471034 TENSAW RIVER AT U.S. HIGHWAY 90 NEAR MOBILE, AL (Lat 30 41 01 Long 088 00 32)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO
OCT											
28...	1615	29400	7.8	23.0	3600	3500	230	740	6000	77	43
MAR											
17...	1200	110	7.4	14.0	31	7	9.3	1.8	3.7	20	.3

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
OCT										
28...	240	96	0	79	2.4	1500	9600	.4	2.4	18400
MAR										
17...	1.4	29	0	24	1.8	10	4.1	.0	5.6	51

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
OCT										
28...	25.0	0	0	2	0	8	30	<.5	4500	10
MAR										
17...	.07	0	8	0	140	87	30	.5	40	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02471039 BLAKELEY RIVER AT U.S. HIGHWAY 90 NEAR MOBILE, AL (Lat 30 40 04 Long 087 55 31)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)
OCT												
28...	1345	15400	7.7	23.0	1700	1600	120	340	3200	80	34	53
MAR												
17...	1540	98	7.1	14.0	29	7	8.9	1.6	2.8	17	.2	1.2
SEP												
11...	1510	5800	6.7	28.5	570	530	48	110	840	75	15	35

DATE	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)
OCT												
28...	68	0	56	2.2	750	5300	.3	3.9	9800	13.3	.03	.15
MAR												
17...	27	0	22	3.4	7.4	3.1	.0	5.7	44	.06	--	--
SEP												
11...	55	0	45	18	230	1600	.2	5.9	2900	3.94	--	--

DATE	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
OCT												
28...	0	--	5	0	--	0	9	130	<.5	--	2300	60
MAR												
17...	0	--	10	0	--	170	130	20	.5	--	40	10
SEP												
11...	2	100	0	20	3	60	0	170	<.5	0	840	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02471040 APALACHEE RIVER AT U.S. HIGHWAY 90 NEAR MOBILE, AL (Lat 30 40 20 Long 087 57 08)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)
OCT												
28...	0900	14000	7.7	23.0	1600	1500	110	310	2700	78	30	100
MAR												
17...	1700	99	7.0	14.0	30	5	9.1	1.7	3.3	19	.3	1.3
SEP												
11...	0900	2540	6.9	27.0	270	230	29	48	360	73	9.5	17

DATE	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	ARSENIC DISSOLVED (UG/L AS AS)
OCT											
28...	66	0	54	2.1	690	4500	.3	4.2	8450	11.5	0
MAR											
17...	30	0	25	4.8	7.6	3.7	.0	5.8	48	.07	0
SEP											
11...	50	0	41	10	110	710	.1	6.1	1310	1.78	2

DATE	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
OCT											
28...	--	0	0	--	0	2	120	<.5	--	2100	10
MAR											
17...	--	15	0	--	130	210	20	.5	--	40	0
SEP											
11...	0	0	10	2	60	0	140	<.5	0	520	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

03572210 FLAT ROCK CREEK AT FLAT ROCK, AL (Lat 34 45 55 Long 085 42 30)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
05...	1315	49	43	6.8	19.0	4	0	3	1.0	6.6
AUG										
29...	1130	3.1	38	6.9	24.5	10	0	8	2.0	--

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
05...	--	--	--	--	--	300	260	40	--	--
AUG										
29...	0	<10	<10	<10	10	850	700	150	10000	30

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
05...	60	0	60	--	--	--	--	3	.40
AUG									
29...	--	0	130	230	.00	0	40	26	.22

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

03572230 DRY CREEK NEAR FABIUS, AL (Lat 34 47 00 Long 085 47 00)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
05...	1520	23	373	5.8	22.0	5	0	4	13	160
AUG										
29...	1020	3.6	680	5.4	23.0	4	0	3	25	380

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
05...	--	--	--	--	--	1100	590	510	--	--
AUG										
29...	0	<10	<10	70	10	--	0	360	14000	20

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
05...	7800	7000	840	--	--	--	--	28	1.7
AUG									
29...	21000	2000	19000	1200	.00	0	140	9	.09

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

03572400 BRYANT CREEK NEAR PISGAH, AL (Lat 34 38 48 Long 085 50 34)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
05...	1045	104	53	6.8	23.0	6	0	5	1.5	5.7
AUG										
29...	1255	5.8	54	7.3	23.0	16	0	13	1.3	5.1

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
05...	--	--	--	--	--	440	330	110	--	--
AUG										
29...	0	<10	<10	<10	<10	460	90	370	1400	20

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
05...	40	10	30	--	--	--	--	9	2.5
AUG									
29...	--	0	20	70	.00	0	<10	6	.09

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

03572700 SOUTH SAUTY CREEK NEAR MACEDONIA, AL (Lat 34 29 58 Long 085 57 52)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
05...	0915	262	61	7.5	18.5	8	0	7	.4	7.4
AUG										
29...	1430	30	74	7.3	24.0	20	0	16	1.6	12

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
05...	--	--	--	--	--	470	390	80	--	--
AUG										
29...	0	<10	<10	<10	<10	740	560	180	270U	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
05...	40	10	30	--	--	--	--	17	12
AUG									
29...	50	20	30	110	.00	0	<10	31	2.5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

03575480 TENNESSEE RIVER AT HUNTSVILLE PUMP STATION NEAR HUNTSVILLE, AL (Lat 34 34 06 Long 086 33 16)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV										
01...	1415	14300	185	7.9	19.0	8.2	74	12	21	5.2
FEB										
27...	1305	109000	161	7.4	6.5	13.6	68	9	21	3.7
MAY										
21...	1000	38100	130	7.9	23.0	6.9	58	11	17	3.8
AUG										
28...	1400	50000	164	7.2	25.0	6.5	67	15	19	4.8

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
01...	8.9	20	.5	1.4	76	0	62	1.5	14	11
FEB										
27...	3.9	11	.2	1.5	72	0	59	4.6	10	4.8
MAY										
21...	5.5	17	.3	1.5	58	0	48	1.2	11	4.5
AUG										
28...	5.0	14	.3	1.5	64	0	52	6.5	11	5.6

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)
NOV										
01...	.1	5.8	106	.14	4090	.27	1.2	1	--	<1
FEB										
27...	.1	3.5	89	.12	26200	.95	4.2	<1	ND	<1
MAY										
21...	.1	5.3	78	.11	8020	.08	.35	ND	70	<1
AUG										
28...	.1	6.0	86	.12	11600	.17	.75	1	100	ND

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV									
01...	ND	3	10	3	65	.6	ND	100	<5
FEB									
27...	1	8	640	2	ND	<.2	ND	130	30
MAY									
21...	ND	3	40	1	6	ND	ND	70	10
AUG									
28...	<1	4	20	3	<5	<.2	ND	120	<5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

03576500 FLINT CREEK AT FALKVILLE, AL (Lat 34 22 23 Long 086 56 01)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN									
04...	1015	215	178	7.3	21.5	56	0	46	4.5
SEP									
04...	1500	247	128	--	21.0	54	0	44	--

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
04...	40	720	590	130	220	30	190	157	91
SEP									
04...	7.7	930	750	180	130	40	90	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

03591825 BEAR CREEK AT MILITARY BRIDGE NEAR HACKLEBURG, AL (Lat 34 18 59 Long 087 51 30)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
04...	1300	435	43	6.9	15.5	11	0	9	2.2	6.3
AUG										
28...	0930	153	63	7.4	23.5	22	0	18	1.4	7.0

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
04...	--	--	--	--	--	1700	1600	150	--	--
AUG										
28...	0	<10	<10	<10	<10	660	500	160	5700	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
04...	760	70	690	--	--	--	--	39	46
AUG									
28...	120	70	50	110	.00	0	10	35	14

SPECIFIC CONDUCTANCE AND TEMPERATURE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

MOBILE RIVER BASIN

02444150 - TOMBIGBEE RIVER AT PICKENSVILLE AL (LAT 33 13 55 LONG 088 16 25.01)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
JUN , 1979				
20...	0900	1700	--	24.5
JUL , 1979				
19...	0900	5490	143	28.0

02446500 - SIPSEY RIVER NEAR ELROD AL (LAT 33 15 25 LONG 087 45 46)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
NOV , 1978				
08...	1200	73	--	14.0
JAN , 1979				
22...	1100	5640	--	8.5
25...	1030	6940	--	9.0
MAY				
07...	1120	742	83	19.5
JUN , 1979				
21...	1130	130	99	25.0
JUL				
02...	1000	109	87	25.5
30...	1100	461	82	20.5
SEP				
10...	1030	187	100	24.0

02449245 - BRUSH CREEK NEAR EUTAW AL (LAT 32 49 51 LONG 087 58 56)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978				
03...	1330	.37	108	19.0
25...	1445	.15	590	18.5
NOV				
08...	1000	.16	--	13.5
DEC				
21...	1130	18	--	13.0
JAN , 1979				
31...	1500	85	--	5.0
MAR				
04...	1345	2220	23	15.0
MAR , 1979				
13...	1030	56	--	13.0
MAY				
04...	1400	29	--	20.0
JUN				
19...	1300	2.7	150	26.0
JUL				
25...	1200	5.8	80	25.5
AUG				
22...	1410	3.9	96	27.0

02461500 - VALLEY CREEK NEAR BESSMER AL (LAT 33 25 09 LONG 086 58 58.01)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
DEC , 1978				
11...	1400	106	386	13.5
FEB , 1979				
08...	1100	245	505	8.0
MAR				
14...	1215	124	525	14.0
APR , 1979				
26...	1415	233	500	17.0
MAY				
31...	1430	221	485	26.0
JUL				
02...	1330	112	510	26.0

MOBILE RIVER BASIN--Continued

02465493 - ELLIOTTS CREEK AT MOUNDVILLE AL (LAT 32 59 50 LONG 087 37 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978				
03...	1240	16	25	--
NOV				
09...	1445	15	--	13.5
DEC				
29...	1000	25	22	6.5
MAR , 1979				
05...	1500	261	--	14.0
19...	1330	38	--	13.5
MAY, 1979				
09...	1100	40	--	19.5
JUN				
25...	1500	47	24	22.0
JUL				
23...	1430	--	24	19.0
23...	1500	49	89	24.5
AUG				
23...	1430	--	24	19.0

PASCAGOULA RIVER BASIN

02479431 - POND CREEK NEAR DEER PARK AL (LAT 31 09 39 LONG 088 21 43.01)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978				
12...	1010	.63	21	18.5
NOV				
21...	1324	4.4	27	17.5
JAN , 1979				
10...	1355	50	25	8.5
FEB				
14...	0858	34	20	10.5
MAR, 1979				
29...	0850	24	19	15.5
MAY				
10...	0920	11	22	22.5
JUN				
20...	1512	.38	31	31.0
AUG				
01...	0855	4.4	23	24.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO
305541087573001 - MOBILE R .1 MILE BL MOUTH OF BAYOU ZEAST (LAT 30 55 41 LONG 087 57 30.01)											
NOV , 1978											
05...	1040	560	7.5	23.0	70	29	15	7.8	58	63	3.0
305645087583201 - MOBILE R AT 24 MILE BEND NR CREOLA AL (LAT 30 56 45 LONG 087 58 32.01)											
OCT , 1978											
29...	1405	2500	7.6	23.0	260	22	27	46	370	75	10
305924087525801 - TENSAW R ABOVE BRIAR LAKE NR STOCKTON AL (LAT 30 59 24 LONG 087 52 58.01)											
OCT , 1978											
30...	1330	549	7.6	23.0	88	49	17	11	72	63	3.3
305943087533601 - TENSAW R 1.4 MI AB MOUTH OF BRIAR LAKE (LAT 30 59 43 LONG 087 53 36.01)											
NOV , 1978											
06...	1030	373	7.5	21.0	60	19	13	6.7	38	57	2.1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
305541087573001 - MOBILE R .1 MILE BL MOUTH OF BAYOU ZEAST (LAT 30 55 41 LONG 087 57 30.01)											
NOV , 1978											
05...	3.1	50	0	41	2.5	47	84	.1	4.9	245	.33
305645087583201 - MOBILE R AT 24 MILE BEND NR CREOLA AL (LAT 30 56 45 LONG 087 58 32.01)											
OCT , 1978											
29...	14	53	0	43	2.1	120	620	.1	4.8	1230	1.67
305924087525801 - TENSAW R ABOVE BRIAR LAKE NR STOCKTON AL (LAT 30 59 24 LONG 087 52 58.01)											
OCT , 1978											
30...	3.5	47	0	39	1.9	29	130	.1	5.1	292	.40
305943087533601 - TENSAW R 1.4 MI AB MOUTH OF BRIAR LAKE (LAT 30 59 43 LONG 087 53 36.01)											
NOV , 1978											
06...	2.8	50	0	41	2.5	220	65	.1	5.1	178	.24

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
305541087573001 - MOBILE R .1 MILE BL MOUTH OF BAYOU ZEAST (LAT 30 55 41 LONG 087 57 30.01)										
NOV , 1978										
05...	.16	1	1	0	100	4	30	<.5	140	20
305645087583201 - MOBILE R AT 24 MILE BEND NR CREOLA AL (LAT 30 56 45 LONG 087 58 32.01)										
OCT , 1978										
29...	.15	.1	0	0	1	46	0	<.5	390	0
305924087525801 - TENSAW R ABOVE BRIAR LAKE NR STOCKTON AL (LAT 30 59 24 LONG 087 52 58.01)										
OCT , 1978										
30...	.15	0	0	0	10	4	0	<.5	150	0
305943087533601 - TENSAW R 1.4 MI AB MOUTH OF BRIAR LAKE (LAT 30 59 43 LONG 087 53 36.01)										
NOV , 1978										
06...	.15	1	0	0	40	2	30	<.5	130	20

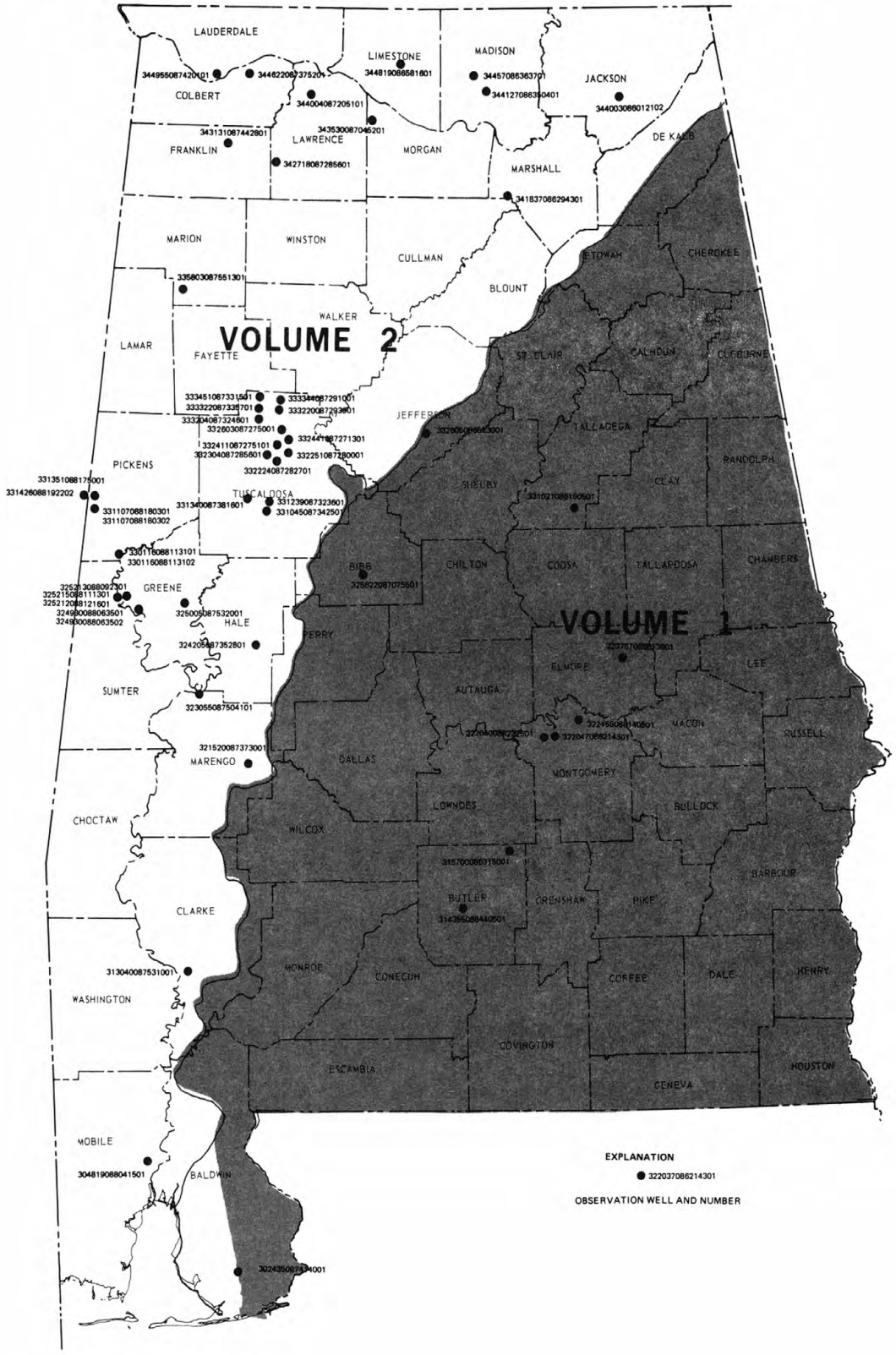

Figure 7.--Map of Alabama showing location of observation wells.

BALDWIN COUNTY

302435087414001. Local number, Bal-1.
LOCATION.--Lat 30°24'35", long 87°41'40", Hydrologic Unit 03160205, in NE¼ sec. 29, T. 7 S., R. 4 E., at city waterworks lot, Foley.
Owner: Riviera Utilities.
AQUIFER.--Sand and gravel of Miocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (25 cm), depth 134 ft (41 m), slotted 94 to 134 ft (29 to 41 m).
DATUM.--Altitude of land-surface datum is 76 ft (23 m). Measuring point: Top of casing, 0.70 ft (0.21 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby municipal wells. Measurements made by Riviera Utilities.
PERIOD OF RECORD.--September 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.0 ft (4.6 m) below land-surface datum, Oct. 13, 1959; lowest, 31.2 ft (9.5 m) below land-surface datum, June 22, 1956.
EXTREMES FOR CURRENT YEAR.--Highest water level, 18.70 ft (5.70 m) below land-surface datum, May 7; lowest, 21.50 ft (6.55 m) below land-surface datum, Jan. 2, 3, 4, 8, 9.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.70	20.40	21.10	21.40	21.30	20.10	19.20	18.50	19.10	19.90	20.30	20.70
10	19.80	20.50	21.20	21.40	21.00	19.80	18.90	18.50	19.20	20.00	20.30	20.70
15	20.00	20.60	21.20	21.40	20.80	19.60	18.80	18.60	19.30	20.20	20.40	20.70
20	20.00	20.80	21.20	21.30	20.70	19.40	---	18.70	19.50	20.20	20.50	20.40
25	20.00	20.80	21.40	21.40	20.50	19.30	18.80	18.90	19.70	20.20	---	20.40
EOM	20.30	20.90	21.40	21.30	20.30	19.10	18.70	18.90	19.70	20.30	---	20.40
MAX	20.30	20.90	21.40	21.40	21.30	20.10	19.20	18.90	19.70	20.30	20.50	20.70

CLARKE COUNTY

313040087531001. Local number, Cla-1.
LOCATION.--Lat 31°30'40", long 87°53'10", Hydrologic Unit 03160203, in SE¼ sec. 5, T. 6 N., R. 2 E., at City Hall, Jackson.
Owner: City of Jackson.
AQUIFER.--Sand and gravel of Miocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (25 cm), depth 156 ft (48 m), screened 134 to 156 ft (41 to 48 m).
DATUM.--Altitude of land-surface datum is 227 ft (69 m). Measuring point: Top of casing, 0.25 ft (0.08 m) below land-surface datum.
REMARKS.--Water level affected by pumping of nearby municipal wells.
PERIOD OF RECORD.--April 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 101.64 ft (30.98 m) below land-surface datum, Dec. 25, 1975; lowest, 119.29 ft (36.36 m) below land-surface datum, Oct. 23, 1958.
EXTREMES FOR CURRENT YEAR.--Highest water level, 102.08 ft (31.11 m) below land-surface datum, Sept. 13; lowest, 112.21 ft (34.20 m) below land-surface datum, Jan. 15.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	110.46	108.82	110.38	111.13	111.46	111.90	111.26	107.72	105.67	107.23	107.98	107.30
10	108.88	108.93	111.47	111.26	112.04	111.75	109.58	109.14	108.36	103.73	108.03	108.06
15	110.62	109.28	110.18	112.21	108.61	111.39	110.54	109.40	108.37	108.42	107.81	108.69
20	108.06	109.00	107.77	107.76	111.62	108.27	108.21	106.73	108.41	108.22	107.93	---
25	108.46	109.40	110.93	111.70	110.58	111.45	106.09	108.92	107.74	107.94	108.05	---
EOM	109.40	109.74	111.15	111.49	110.53	108.69	109.98	108.74	103.64	107.89	107.95	---
MAX	110.62	110.66	111.47	112.21	112.14	111.99	111.47	109.58	109.14	108.42	108.24	108.69

COLBERT COUNTY

344622087375201. Local number, Col-1.
LOCATION.--Lat 34°46'22", long 87°37'52", Hydrologic Unit 06030005, in NW¼ sec. 30, T. 3 S., R. 10 W., at Diamond Alkali Co. plant, 0.2 mi (0.3 km) east of State Highway 133, and 2.7 mi (4.3 km) northeast of Muscle Shoals.
Owner: U.S. Army, Corps of Engineers.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in (20 cm), depth 265 ft (81 m), casing depth unknown, open hole below casing.
DATUM.--Altitude of land-surface datum is 527.8 ft (160.9 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--February 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.70 ft (1.43 m) below land-surface datum, Mar. 16, 1973; lowest, 40.30 ft (12.28 m) below land-surface datum, Nov. 3, 1961.
EXTREMES FOR CURRENT YEAR.--Highest water level, 6.22 ft (1.90 m) below land-surface datum, Jan. 21; lowest, 20.86 ft (6.36 m) below land-surface datum, Nov. 15.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.50	20.63	14.24	8.19	9.71	8.03	8.39	10.76	13.68	13.94	11.53	9.34
10	19.06	20.70	10.67	7.89	9.46	8.95	9.16	11.26	13.62	9.83	12.36	10.54
15	19.54	20.86	11.80	8.96	10.13	9.59	8.14	12.06	11.34	9.00	12.98	8.02
20	19.98	19.63	12.00	8.46	10.47	10.31	9.35	12.70	12.37	9.88	13.84	9.04
25	20.19	19.79	11.66	7.89	8.61	10.38	10.09	13.10	12.35	9.68	13.05	8.59
EOM	20.48	17.48	11.21	9.01	8.86	11.00	10.98	13.18	13.10	10.70	10.01	9.64
MAX	20.48	20.86	17.70	9.41	10.60	11.00	11.07	13.49	13.73	14.02	14.32	10.99

FRANKLIN COUNTY

343131087442801. Local number, Fra-1.
LOCATION.--Lat 34°31'31", long 87°44'28", Hydrologic Unit 06030006, in NW¼ sec. 19, T. 6 S., R. 11 W., at Russellville High School, Russellville.
Owner: City of Russellville.
AQUIFER.--Bangor Limestone of Late Mississippian age and sand and gravel of Tuscaloosa Group of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 210 ft (64 m), slotted 140 to 146 ft (43 to 45 m), open hole below.
DATUM.--Altitude of land-surface datum is 890 ft (271 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--December 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.57 ft (8.10 m) below land-surface datum, Mar. 30, 1965; lowest, 44.15 ft (13.46 m) below land-surface datum, Nov. 27, 1963.
EXTREMES FOR CURRENT YEAR.--Highest water level, 29.29 ft (8.93 m) below land-surface datum, Apr. 14; lowest, 39.44 ft (12.02 m) below land-surface datum, Nov. 15.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.31	39.21	37.77	34.11	33.70	30.07	30.57	32.07	33.79	35.32	35.00	35.66
10	38.50	39.30	36.04	32.81	32.86	31.45	31.81	32.49	33.95	34.21	35.27	35.98
15	38.32	39.44	36.97	34.24	33.49	32.33	29.80	32.84	34.32	33.64	35.23	33.25
20	38.65	39.19	37.15	34.02	32.76	32.82	31.54	33.30	34.75	34.39	35.55	34.16
25	38.85	39.17	36.98	31.71	31.29	32.60	31.85	33.66	34.82	33.89	35.31	32.86
EOM	39.07	38.82	36.95	33.04	30.94	33.28	32.75	33.69	35.04	34.59	35.33	33.94
MAX	39.07	39.44	38.83	35.08	33.85	33.28	33.28	33.77	35.04	35.41	35.65	36.05

GREENE COUNTY

324930088063501. Local number, W-3 (USCE GW 1A).
LOCATION.--Lat 32°49'30", long 88°06'35", Hydrologic Unit 03160106, in SW¼ sec. 4, T. 21 N., R. 1 W., at east side of dirt road, 2.2 mi (3.5 km) south-southwest of New Mt. Hebron, 0.85 mi (1.37 km) northeast of Tombigbee River, and 2.8 mi (4.5 km) east of Gainesville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (10 cm), depth 277 ft (84 m), screened 257 to 277 ft (78 to 84 m).
DATUM.--Altitude of land-surface datum is 110.1 ft (33.6 m). Measuring point: Top of casing, 2.20 ft (0.67 m) above land-surface datum.
REMARKS.--Missing record due to recorder malfunction.
PERIOD OF RECORD.--April 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.31 ft (4.67 m) above land-surface datum, Mar. 22, 1977; lowest, 9.08 ft (2.77 m) above land-surface datum, July 18, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 10.56 ft (3.22 m) above land-surface datum, May 28, 29; lowest, 9.08 ft (2.77 m) above land-surface datum, July 18.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.00	9.68						---	10.00	9.38	9.44	9.50
10	9.88	9.70						---	9.84	9.46	9.36	9.48
15	9.92	---						---	9.74	9.60	9.56	9.84
20	9.80	---						---	9.42	9.30	9.50	9.84
25	9.76	---						10.28	9.22	9.46	9.50	10.14
EOM	9.72	---						10.46	9.22	9.54	9.50	10.04
MAX	9.72	9.58						9.76	9.22	9.08	9.36	9.48

GREENE COUNTY

324930088063502. Local number, W-4 (USCE GW 1B).
LOCATION.--Lat 32°49'30", long 88°06'35", Hydrologic Unit 03160106, in SW¼ sec. 4, T. 21 N., R. 1 W., at east side of dirt road, 2.2 mi (3.5 km) south-southwest of New Mt. Hebron, 0.85 mi (1.37 km) northeast of Tombigbee River, and 2.8 mi (4.5 km) east of Gainesville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand and gravel of alluvial deposits of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (10 cm), depth 32 ft (10 m), screened 22 to 32 ft (7 to 10 m).
DATUM.--Altitude of land-surface datum is 109.6 ft (33.4 m). Measuring point: Top of casing, 1.50 ft (0.46 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--June 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.79 ft (0.24 m) below land-surface datum, Apr. 13, 1979; lowest, 11.25 ft (3.43 m) below land-surface datum, Dec. 3, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 0.79 ft (0.24 m) below land-surface datum, Apr. 13; lowest, 11.25 ft (3.43 m) below land-surface datum, Dec. 3.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.15	10.87	11.23	9.82	4.70	3.08	3.14	3.44	4.01	6.58	7.66	8.58
10	10.29	10.95	10.96	8.66	4.34	3.55	3.09	3.87	4.46	6.25	7.78	8.82
15	10.41	11.07	10.66	8.29	4.51	3.77	---	3.51	4.83	6.33	7.69	7.97
20	10.53	11.13	10.60	8.01	4.02	3.89	---	3.92	5.23	6.77	7.86	7.53
25	10.65	11.19	10.53	4.74	3.35	3.65	---	4.13	5.19	6.99	8.20	5.53
EOM	10.78	11.23	10.31	4.84	3.69	3.87	---	3.87	5.72	7.36	8.42	6.11
MAX	10.78	11.23	11.25	10.26	4.89	3.89	3.73	4.30	5.72	7.36	8.42	8.89

GREENE COUNTY

325005087532001. Local number, Gre-3.
LOCATION.--Lat 32°50'05", long 87°53'20", Hydrologic Unit 03160113, in SE¼ sec. 33, T. 22 N., R. 2 E., at Greene County warehouse on Roberts Street, Eutaw.
Owner: City of Eutaw.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in (10 cm), depth 407 ft (124 m), screened 395 to 407 ft (120 to 124 m).
DATUM.--Altitude of land-surface datum is 172.14 ft (52.47 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water level affected by pumping of nearby municipal wells.
PERIOD OF RECORD.--August 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 35.94 ft (10.95 m) below land-surface datum, Apr. 2, 1953; lowest, 46.09 ft (14.05 m) below land-surface datum, Sept. 11, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 43.37 ft (13.22 m) below land-surface datum, Apr. 23, 25, 26, 27; lowest, 45.15 ft (13.76 m) below land-surface datum, Oct. 13, 14.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	45.03	44.99	44.51	44.66	44.17	43.83	44.19	43.59	44.33	44.99	44.83	
10	45.10	44.87	44.46	44.59	44.20	43.72	43.69	43.64	44.34	44.94	44.98	
15	45.09	44.85	44.54	44.50	44.23	43.53	43.68	43.68	44.49	44.90	---	
20	44.93	44.85	44.43	44.45	44.13	43.72	43.57	43.97	44.51	44.96	---	
25	44.93	44.93	44.27	44.20	44.14	43.57	43.39	43.98	44.51	44.90	---	
EOM	44.95	44.78	44.38	44.18	44.15	43.74	43.42	44.39	44.50	44.75	---	
MAX	45.15	45.01	44.64	44.67	44.25	44.12	44.19	44.39	44.51	45.02	44.98	

GREENE COUNTY

325213088092301. Local number, 0-2 (USCE 135A).
LOCATION.--Lat 32°52'13", long 88°09'23", Hydrologic Unit 03160106, in SW¼ sec. 24, T. 22 N., R. 2 W., at dirt road, 0.6 mi (1.0 km) north of Tombigbee River, and 3.2 mi (5.2 km) north of Gainesville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand and gravel of alluvial deposits of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (10 cm), depth 38 ft (12 m), screened 28 to 38 ft (9 to 12 m).
DATUM.--Altitude of land-surface datum is 112.8 ft (34.4 m). Measuring point: Top of casing, 2.50 ft (0.76 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--September 1972 to April 1975 (periodic only), June 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.09 ft (0.33 m) above land-surface datum, Apr. 15, 1979; lowest, 9.98 ft (3.04 m) below land-surface datum, Nov. 30, 1972.
EXTREMES FOR CURRENT YEAR.--Highest water level, 1.09 ft (0.33 m) above land-surface datum, Apr. 15; lowest, 8.15 ft (2.48 m) below land-surface datum, Oct. 9, 10, 12, 13, 14, 15, 16, 17.

WATER LEVEL, IN FEET ABOVE OR BELOW (-) LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	-8.12	-7.94	-6.78	-3.89	-2.69	-2.36	-2.44	-2.66	-2.79	-4.37	-4.18	-4.27
10	8.15	7.76	5.89	3.18	2.69	2.68	2.39	2.99	3.19	3.44	4.35	4.60
15	8.15	7.67	6.00	3.36	2.79	2.79	.96	2.67	3.39	3.53	3.74	3.09
20	8.11	7.54	5.89	2.80	2.56	2.88	1.50	3.01	3.78	3.82	4.09	2.89
25	8.05	7.42	4.79	2.59	2.36	2.79	2.49	3.15	3.60	3.82	4.16	2.67
EOM	-8.07	-7.22	-4.52	-2.69	-2.64	-2.96	-2.83	-2.92	-3.89	-3.99	-4.31	-2.89
MAX	-8.15	-8.04	-7.20	-4.20	-2.87	-2.96	-2.83	-3.29	-3.89	-4.37	-4.35	-4.67

HALE COUNTY

324205087352801. Local number, Hal-1.
LOCATION.--Lat 32°42'05", long 87°35'28", Hydrologic Unit 03160113, in SE¼ sec. 17, t. 20 N., R. 5 E., at old city waterworks lot and about 200 ft (61 m) east of State Highway 69, Greensboro.
Owner: City of Greensboro.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (25 cm), depth 278 ft (85 m), screened 258 to 278 ft (79 to 85 m).
DATUM.--Altitude of land-surface datum is 257 ft (78 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--November 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 40.12 ft (12.23 m) below land-surface datum, Apr. 12, 1962; lowest, 57.44 ft (17.51 m) below land-surface datum, Nov. 7, 8, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 55.60 ft (16.95 m) below land-surface datum, May 2, 3, 4; lowest, 57.44 ft (17.51 m) below land-surface datum, Nov. 7, 8.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.02	57.43	---	57.05	56.44	56.06	55.86	55.61	55.88	56.28	56.74	56.99
10	57.08	---	---	56.95	56.35	55.95	55.81	55.61	55.92	56.37	56.79	57.06
15	57.15	---	---	56.86	56.29	55.91	55.72	55.64	55.94	56.44	56.84	57.11
20	57.24	---	---	56.79	56.26	55.91	55.66	55.70	56.02	56.53	56.87	57.13
25	57.30	---	---	56.63	56.20	55.88	55.64	55.76	56.12	56.60	56.88	57.15
EOM	57.38	---	57.14	56.50	56.15	55.89	55.61	55.85	56.20	56.67	56.94	57.17
MAX	57.38	57.44	57.16	57.12	56.49	56.13	55.89	55.85	56.20	56.67	56.94	57.17

JACKSON COUNTY

344003086012102. Local number, Jac-2.
LOCATION.--Lat 34°40'03", long 86°01'21", Hydrologic Unit 06030001, in NW¼ sec. 29, T. 4 S., R. 6 E., at State Highway 35 and 0.45 mi (0.72 km) south of U.S. Highway 72, Scottsboro.
Owner: U.S. Geological Survey.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (15 cm), depth 40 ft (12 m), slotted 35 to 40 ft (11 to 12 m).
DATUM.--Altitude of land-surface datum is 648.68 ft (197.72 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--January 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.88 ft (0.27 m) below land-surface datum, Oct. 25, 1977; lowest, 21.63 ft (6.59 m) below land-surface datum, Nov. 17, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 1.82 ft (0.55 m) below land-surface datum, Jan. 20; lowest, 21.63 ft (6.59 m) below land-surface datum, Nov. 17.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.45	21.09		---	9.58	4.75	6.05	8.75	7.62	13.83	11.46	9.24
10	19.90	21.33		---	7.95	7.89	8.22	9.95	8.39	13.65	12.60	11.12
15	19.89	21.59		---	9.20	7.47	5.35	10.47	10.28	14.40	11.54	11.47
20	20.27	20.49		8.54	8.44	8.87	8.24	11.48	11.73	15.12	12.78	11.94
25	20.53	20.33		6.44	4.80	7.33	9.62	9.51	---	10.06	9.69	12.53
EOM	20.90	19.59		8.82	7.07	9.26	8.43	5.10	12.75	11.13	11.34	7.31
MAX	20.90	21.59		8.82	9.58	9.26	9.62	11.48	12.75	15.12	12.78	12.53

LAUDERDALE COUNTY

344955087420101. Local number, Lau-2.
LOCATION.--Lat 34°49'55", long 87°42'01", Hydrologic Unit 06030005, in SE¼ sec. 33, T. 2 S., R. 11 W., at junction of Jackson Road and Cox Creek Parkway, and 2.6 mi (4.2 km) northwest of Florence.
Owner: Lena Roberts.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 227 ft (69 m), cased to 47 ft (14 m), open hole below.
DATUM.--Altitude of land-surface datum is 485 ft (148 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--March 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.12 ft (1.87 m) below land-surface datum, May 8, 1978; lowest, 14.36 ft (4.38 m) below land-surface datum, Nov. 14, 15, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 7.66 ft (2.33 m) below land-surface datum, Sept. 14; lowest, 14.36 ft (4.38 m) below land-surface datum, Nov. 14, 15.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.18	14.31	13.79	12.41	12.71	11.57	11.10	10.95			---	12.68
10	14.20	14.35	12.81	12.09	12.65	12.16	11.64	11.72			12.94	12.98
15	14.19	14.36	13.56	12.69	12.84	12.43	10.68	12.05			12.96	11.29
20	14.26	14.16	13.69	12.51	12.94	12.53	11.41	---			13.08	12.07
25	14.29	14.15	13.68	11.84	12.20	12.29	11.60	---			12.96	11.99
EOM	14.33	14.10	13.71	12.49	12.42	12.56	11.97	---			13.04	12.32
MAX	14.35	14.36	14.17	12.80	12.99	12.59	12.20	12.08			13.14	13.04

LAWRENCE COUNTY

342718087285601. Local number, Law-3.
LOCATION.--Lat 34°27'18", long 87°28'56", Hydrologic Unit 06030005, in SE¼ sec. 9, T. 7 S., R. 9 W., at Mt. Hope Church of Christ, 0.6 mi (1.0 km) south of State Highway 24 and 0.05 mi (0.08 km) west of county road.
Owner: Mt. Hope Church of Christ.
AQUIFER.--Bangor Limestone of Late Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 54 ft (16 m), casing depth unknown, open hole below casing.
DATUM.--Altitude of land-surface datum is 650 ft (198 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--September 1960 to February 1975 (periodic only), July 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.01 ft (1.22 m) below land-surface datum, May 8, 1978; lowest, 23.96 ft (7.30 m) below land-surface datum, Aug. 17, 1970.
EXTREMES FOR CURRENT YEAR.--Highest water level, 4.04 ft (1.23 m) below land-surface datum, Apr. 12; lowest, 13.96 ft (4.26 m) below land-surface datum, Nov. 6.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.03	13.79		---	7.11	5.61	6.11	6.40	9.79	12.15	9.84	8.85
10	12.61	11.46		---	6.61	6.59	6.72	7.56	10.09	8.86	10.39	9.66
15	10.56	---		---	7.11	6.92	5.83	8.38	10.65	9.64	10.92	6.49
20	11.66	---		---	6.28	7.36	7.06	9.17	11.17	10.46	11.30	7.26
25	12.21	---		---	5.25	6.92	7.10	9.48	11.39	7.58	11.02	6.81
EOM	12.82	---		6.82	6.18	7.91	8.15	9.03	11.83	9.19	9.22	7.43
MAX	13.12	13.96		6.82	7.31	7.91	8.15	9.64	11.83	12.24	11.38	9.99

LAWRENCE COUNTY

344004087205101. Local number, Law-2.
LOCATION.--Lat 34°40'04", long 87°20'51", Hydrologic Unit 06030005, in SW¼ sec. 26, T. 4 S., R. 8 W., at abandoned Courtland Air Base and 2.0 mi (3.2 km) west of Courtland.
Owner: State of Alabama.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (30 cm), depth 200 ft (61 m), cased to 55 ft (17 m), open hole below.
DATUM.--Altitude of land-surface datum is 582 ft (177 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--June 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.60 ft (2.92 m) below land-surface datum, Mar. 17, 1973; lowest, 50.6 ft (15.4 m) below land-surface datum, Nov. 1, 2, 1963.
EXTREMES FOR CURRENT YEAR.--Highest water level, 21.23 ft (6.47 m) below land-surface datum, Apr. 20; lowest, 50.08 ft (15.26 m) below land-surface datum, Nov. 4.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5		---	46.57	34.92	30.79	---	---	29.91	35.20	41.12	42.88	31.60
10		---	44.20	30.12	31.40	---	---	31.60	35.39	41.61	43.17	34.74
15		50.05	42.31	33.15	33.22	23.62	---	28.80	37.19	41.61	43.54	29.52
20		48.80	42.78	35.00	33.63	27.30	21.69	31.19	38.72	42.29	43.88	30.30
25		48.17	42.90	24.22	---	29.11	25.34	33.01	39.51	41.66	42.57	25.51
EOM		47.71	43.32	27.80	---	32.40	28.80	34.70	40.35	42.41	33.00	28.42
MAX		50.05	46.57	35.00	33.63	32.40	28.80	34.70	40.35	42.41	43.88	34.74

LIMESTONE COUNTY

344819086581601. Local number, Lim-4.
LOCATION.--Lat 34°48'19", long 86°58'16", Hydrologic Unit 06030002, in SE¼ sec. 5, T. 3 S., R. 4 W., at City Hall on Bryan Street, Athens.
Owner: City of Athens.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 143 ft (44 m), cased to 52 ft (16 m), open hole below.
DATUM.--Altitude of land-surface datum is 711 ft (217 m). Measuring point: Top of casing, 0.50 ft (0.15 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--January 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.20 ft (3.41 m) below land-surface datum, Mar. 4, 1977; lowest, 43.09 ft (13.13 m) below land-surface datum, Nov. 1, 1968.
EXTREMES FOR CURRENT YEAR.--Highest water level, 12.04 ft (3.67 m) below land-surface datum, Mar. 4; lowest, 19.95 ft (6.08 m) below land-surface datum, Nov. 11.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.34	19.86	18.65	14.67	14.95	12.33	13.99	15.01	15.66	17.25	17.62	16.18
10	19.46	19.89	17.76	14.05	14.74	13.41	14.26	15.32	15.24	17.36	17.82	16.64
15	19.47	19.92	17.41	14.86	14.97	14.04	12.41	15.96	15.72	17.62	17.32	15.83
20	19.51	19.58	17.29	14.83	15.27	14.42	13.53	16.25	16.24	17.78	17.62	15.94
25	19.58	19.39	17.14	13.54	13.82	14.86	14.22	16.29	16.57	17.12	17.45	15.59
EOM	19.81	19.21	17.08	14.50	12.98	15.19	14.89	16.14	16.83	17.42	17.10	15.29
MAX	19.81	19.95	19.14	16.19	15.37	15.19	15.19	16.43	16.83	17.78	18.17	17.02

MADISON COUNTY

344127086350401. Local number, Mad-2.
LOCATION.--Lat 34°41'27", long 86°35'04", Hydrologic Unit 06030002, in NW¼ sec. 13, T. 4 S., R. 1 W., at northeast end of northeast-southwest runway at Huntsville airport and 3.0 mi (4.8 km) southeast of Huntsville.
Owner: City of Huntsville.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 168 ft (51 m), cased to 56 ft (17 m), open hole below.
DATUM.--Altitude of land-surface datum is 613 ft (187 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--June 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.13 ft (5.83 m) below land-surface datum, Jan. 31, 1962; lowest, 44.30 ft (13.50 m) below land-surface datum, Sept. 13, 1962.
EXTREMES FOR CURRENT YEAR.--Highest water level, 25.56 ft (7.79 m) below land-surface datum, Mar. 7; lowest, 39.70 ft (12.10 m) below land-surface datum, Nov. 19.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.94	39.45	38.99	33.44	32.96	26.72	33.31	33.13	36.49	37.70	35.65	35.78
10	39.11	39.60	38.66	33.25	33.65	27.25	33.17	33.94	36.47	37.92	35.92	35.33
15	39.19	39.66	37.49	33.74	33.82	30.20	26.51	34.90	36.66	38.13	36.41	35.57
20	39.19	39.68	37.07	33.92	34.59	31.25	28.82	35.46	36.96	38.33	36.82	35.78
25	39.23	39.45	37.01	30.19	34.31	32.18	30.92	36.11	37.25	36.92	37.15	36.29
EOM	39.57	39.41	36.92	32.02	30.72	33.03	32.23	36.53	37.29	35.53	36.90	34.55
MAX	39.57	39.70	39.33	36.66	34.60	33.03	33.35	36.53	37.37	38.33	37.17	36.86

MADISON COUNTY

344457086363701. Local number, Mad-4.
LOCATION.--Lat 34°44'57", long 86°36'37", Hydrologic Unit 06030002, in SE¼ sec. 27, T. 3 S., R. 1 W., at Huntsville Golf and Country Club and 1.5 mi (2.4 km) northwest of Huntsville.
Owner: Huntsville Golf and Country Club.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 145 ft (44 m), cased to 96 ft (29 m), open hole below.
DATUM.--Altitude of land-surface datum is 686 ft (209 m). Measuring point: Top of casing, 0.60 ft (0.18 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--June 1956 to March 1959, May 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.24 ft (10.44 m) below land-surface datum, Mar. 31, 1973; lowest, 79.98 ft (24.38 m) below land-surface datum, Dec. 7, 1956.
EXTREMES FOR CURRENT YEAR.--Highest water level, 38.81 ft (11.83 m) below land-surface datum, Apr. 26; lowest, 74.19 ft (22.61 m) below land-surface datum, Nov. 15, 16.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	71.87	73.78	73.71	64.17		---	---	41.04	---	59.25	57.80	57.79
10	72.24	73.94	72.25	62.42		43.63	---	42.40	---	60.80	57.56	57.22
15	72.55	74.19	70.14	61.24		42.56	---	44.34	---	62.58	58.01	57.31
20	72.76	73.91	69.76	60.40		---	---	45.92	---	64.61	58.70	57.76
25	73.10	73.91	69.11	---		---	38.86	47.90	---	61.00	59.84	58.78
EOM	73.72	73.91	69.04	54.86		---	39.92	---	57.10	58.99	59.60	58.04
MAX	73.72	74.19	73.91	68.32		52.32	39.92	48.85	57.10	64.68	59.91	59.57

MARENGO COUNTY

321520087373001. Local number, Mag-2.
LOCATION.--Lat 32°15'20", long 87°37'30", Hydrologic Unit 03160201, in NE¼ sec. 24, T. 15 N., R. 4 E., at Thomaston Prison and 0.6 mi (1.0 km) south of Thomaston.
Owner: State of Alabama.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in (10 cm), depth 1,222 ft (372 m), cased to 20 ft (6 m), open hole 20 to 1,202 ft (6 to 366 m), screened 1,202 to 1,222 ft (366 to 372 m).
DATUM.--Altitude of land-surface datum is 154 ft (47 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--April 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.83 ft (2.39 m) below land-surface datum, Mar. 30, 1954; lowest, 21.21 ft (6.46 m) below land-surface datum, Sept. 25, 26, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 18.33 ft (5.59 m) below land-surface datum, Jan. 20; lowest, 21.21 ft (6.46 m) below land-surface datum, Sept. 25, 26.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	18.86	18.90	18.71	---	18.67	18.59	18.78	19.20	19.14	---
10	19.13	---	18.97	18.88	18.79	---	18.59	18.63	18.82	18.93	19.18	---
15	19.14	---	18.93	18.90	18.66	---	18.62	18.63	18.86	18.95	19.62	20.86
20	---	---	18.81	18.63	18.76	---	18.67	18.82	18.93	18.95	---	21.06
25	---	19.18	18.85	18.72	18.63	---	18.59	19.07	19.28	19.07	---	21.21
EOM	---	18.98	18.87	18.74	---	18.74	18.66	18.92	19.33	19.13	---	20.71
MAX	19.24	19.21	19.00	18.96	18.79	18.78	18.72	19.07	19.35	19.31	19.62	21.21

MARENGO COUNTY

323055087504101. Local number, Mag-1.
LOCATION.--Lat 32°30'55", long 87°50'41", Hydrologic Unit 03160201, in SW¼ sec. 24, T. 18 N., R. 2 E., at J. C. Webb Compress Co., Demopolis.
Owner: J. C. Webb Compress Co.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in (10 cm), depth 900 ft (274 m), slotted 860 to 900 ft (262 to 274 m).
DATUM.--Altitude of land-surface datum is 110 ft (34 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--August 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.15 ft (0.05 m) below land-surface datum, Feb. 26, 1954; lowest, 26.85 ft (8.18 m) below land-surface datum, Sept. 12, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 7.57 ft (2.31 m) below land-surface datum, Apr. 20; lowest, 26.85 ft (8.18 m) below land-surface datum, Sept. 12.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.94	12.55	11.32	13.36	---	15.05	14.31	15.40	16.17	23.50	23.72	24.22
10	14.09	12.28	11.18	14.05	---	13.61	14.18	14.03	19.14	21.17	23.79	25.95
15	13.42	13.34	11.35	14.78	17.08	15.46	12.64	16.14	21.06	22.65	24.23	24.23
20	13.05	13.01	10.93	---	16.85	14.89	7.76	15.54	22.49	23.32	23.06	23.72
25	13.08	13.02	11.19	---	15.78	14.58	12.23	14.87	22.73	23.48	23.04	24.37
EOM	13.20	12.51	11.55	---	14.73	15.07	13.53	14.38	22.85	22.90	23.84	24.69
MAX	14.74	13.48	12.51	14.78	17.57	15.46	14.87	16.16	22.90	23.55	24.29	26.85

MARION COUNTY

335803087551301. Local number, Mar-1.
LOCATION.--Lat 33°58'03", long 87°55'13", Hydrologic Unit 03160103, in SE¼ sec. 32, T. 12 S., R. 13 W., at 15th Street and 0.35 mi (0.56 km) west of U.S. Highway 78, Guin.
Owner: M. M. Burleson.
AQUIFER.--Sandstone of Pottsville Formation of Early and Middle Pennsylvanian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 520 ft (158 m), cased to 80 ft (24 m), open hole below.
DATUM.--Altitude of land-surface datum is 452 ft (138 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--March 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.6 ft (1.1 m) below land-surface datum, Mar. 31, 1972; lowest, 11.76 ft (3.58 m) below land-surface datum, Nov. 10, 1954.
EXTREMES FOR CURRENT YEAR.--Highest water level, 5.11 ft (1.56 m) below land-surface datum, Apr. 13; lowest, 7.01 ft (2.14 m) below land-surface datum, Nov. 19, 20.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.68	6.86	6.77	6.60	6.15	5.72	5.62	5.39	5.63	6.11	6.26	6.33
10	6.79	6.95	6.87	---	6.21	5.73	5.54	5.50	5.79	5.97	6.24	6.46
15	6.82	6.96	6.74	---	5.95	5.88	5.34	5.64	5.90	6.03	6.35	6.34
20	6.77	7.01	6.58	5.94	6.10	5.67	5.41	5.60	6.01	6.14	6.36	6.28
25	6.75	6.97	6.68	6.07	5.78	5.66	5.31	5.71	6.08	6.03	6.32	6.24
EOM	6.98	6.89	6.70	6.15	5.78	5.73	5.47	5.67	5.96	6.11	6.37	6.22
MAX	6.98	7.01	6.98	6.70	6.23	5.88	5.69	5.72	6.10	6.20	6.38	6.49

MARSHALL COUNTY

341837086294301. Local number, Ma1-4.
LOCATION.--Lat 34°18'37", long 86°29'43", Hydrologic Unit 03160109, in SE¼ sec. 26, T. 8 S., R. 1 E., at U.S. Highway 231 and 0.6 mi (1.0 km) south of Arab.
Owner: City of Arab.
AQUIFER.--Sandstone of Pottsville Formation of Early and Middle Pennsylvanian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 362 ft (110 m), cased to 100 ft (30 m), open hole below.
DATUM.--Altitude of land-surface datum is 1,080 ft (320 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--January 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 50.11 ft (15.27 m) below land-surface datum, Feb. 12, 1966; lowest, 78.72 ft (23.99 m) below land-surface datum, Dec. 6, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 60.14 ft (18.33 m) below land-surface datum, Apr. 11; lowest, 78.72 ft (23.99 m) below land-surface datum, Dec. 6.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.40	76.65	78.58	76.71	75.53	70.95	62.41	67.78	69.77	72.72	73.34	74.11
10	74.63	77.21	78.62	76.23	75.66	70.16	60.52	68.38	70.15	72.81	73.62	74.32
15	74.91	77.50	77.84	76.11	75.17	69.37	61.81	68.88	70.67	73.19	73.94	74.42
20	75.01	77.81	77.11	75.28	75.19	67.85	64.20	69.05	71.32	73.57	73.96	74.19
25	75.44	78.10	77.04	75.49	72.90	66.28	65.78	69.38	72.02	73.45	74.50	74.31
EOM	76.10	78.38	76.89	75.52	72.42	64.45	67.09	69.82	72.13	73.25	74.50	73.76
MAX	76.10	78.41	78.72	76.96	75.66	72.09	67.09	69.82	72.15	73.57	74.57	74.47

MOBILE COUNTY

304819088041501. Local number, Mob-2.
LOCATION.--Lat 30°48'19", long 88°04'15", Hydrologic Unit 03160204, in NW¼ sec. 10, T. 3 S., R. 1 W., at U.S. Highway 43 and 1.4 mi (2.3 km) south of Saraland.
Owner: City of Saraland.
AQUIFER.--Sand and gravel of alluvial deposits of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in (30 cm), depth 138 ft (42 m), screened 108 to 138 ft (33 to 42 m).
DATUM.--Altitude of land-surface datum is 19 ft (6 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Removed recorder January 10, 1979.
PERIOD OF RECORD.--August 1967 to April 1974 (periodic only), December 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.17 ft (4.01 m) below land-surface datum, Feb. 12, 1978; lowest, 19.33 ft (5.89 m) below land-surface datum, Aug. 3, 1967.
EXTREMES FOR CURRENT YEAR.--Highest water level, 16.09 ft (4.90 m) below land-surface datum, Jan. 1, 6; lowest, 17.12 ft (5.22 m) below land-surface datum, Nov. 14.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.00	16.75	16.53	16.58								
10	16.25	16.95	16.64	---								
15	16.28	16.92	16.52	---								
20	16.89	16.87	16.45	---								
25	16.76	16.91	16.32	---								
EOM	16.85	16.66	16.35	---								
MAX	16.89	17.12	16.64	16.60								

MORGAN COUNTY

343530087045201. Local number, Mor-6.
LOCATION.--Lat 34°35'30", long 87°04'52", Hydrologic Unit 06030002, in SW¼ sec. 20, T. 5 S., R. 5 W., at junction of State Highway 24 and county road, eastern city limits of Trinity.
Owner: George H. Burt.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 440 ft (134 m), cased to 33 ft (10 m), open hole below.
DATUM.--Altitude of land-surface datum is 665 ft (202 m). Measuring point: Top of casing, 0.90 ft (0.27 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--March 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.02 ft (4.88 m) below land-surface datum, Apr. 14, 1979; lowest, 58.55 ft (17.85 m) below land-surface datum, Sept. 10, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 16.02 ft (4.88 m) below land-surface datum, Apr. 14; lowest, 55.67 ft (16.97 m) below land-surface datum, Oct. 1.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	55.06	39.25	51.41	27.05		---	21.85	29.29	33.81	38.49	40.98	30.22
10	54.59	54.28	45.91	25.57		21.70	24.96	30.33	33.81	39.46	41.11	32.43
15	39.31	54.07	39.97	29.82		23.78	17.34	31.63	33.89	40.47	40.20	29.49
20	39.28	53.53	40.28	29.79		27.61	21.94	32.89	35.17	41.61	41.19	30.96
25	39.25	54.87	39.36	21.32		27.50	25.93	33.72	36.05	39.39	30.44	29.57
EOM	39.25	53.27	36.86	---		29.77	28.63	34.16	37.04	40.20	32.05	30.23
MAX	55.67	55.09	53.92	30.60		29.77	29.76	34.56	37.04	41.63	41.75	33.03

PICKENS COUNTY

330116088113101. Local number AA48 (GW12A).
LOCATION.--Lat 33°01'16", long 88°11'31", Hydrologic Unit 03160106, in NW¼ sec. 34, T. 24 N., R. 2 W., at west side of County Road 13, 5.25 mi (8.45 km) southwest of State Highway 14, 0.30 mi (0.50 km) north of Tombigbee River, and 8.20 mi (13.19 km) south-southwest of Aliceville.
Owner: Corps of Engineers.
AQUIFER.--Sand of Eutaw Formation of Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (10 cm), depth 91 ft (28 m), screened 71 to 91 ft (22-28 m).
DATUM.--Altitude of land-surface datum is 135.6 ft (41.3 m). Measuring point: Top of casing, 1.50 ft (0.46 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--September 1974 to January 11, 1978 (periodic only), March 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.96 ft (4.26 m) below land-surface datum, Apr. 16, 17, 1979; lowest, 23.26 ft (7.09 m) below land-surface datum, Oct. 3, 1977.
EXTREMES FOR CURRENT YEAR.--Highest water level, 13.96 ft (4.26 m) below land-surface datum, Apr. 16, 17; lowest, 20.51 ft (6.25 m) below land-surface datum, Oct. 1.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.43	20.16	19.64	18.87	18.11	16.77	17.05	16.56	16.67	17.08	17.10	17.22
10	20.36	20.09	19.44	18.54	17.96	16.73	16.84	16.49	16.83	16.95	17.13	17.26
15	20.31	20.05	19.40	18.72	18.00	17.42	14.20	16.57	16.92	16.82	17.15	16.95
20	20.26	19.99	19.36	18.64	17.98	17.44	14.62	16.68	16.98	16.98	17.20	16.73
25	20.22	19.94	19.25	17.45	17.61	17.30	16.29	16.79	16.98	16.94	17.23	16.49
EOM	20.22	19.80	19.17	17.73	17.41	17.35	16.53	16.76	17.01	17.03	17.24	16.76
MAX	20.51	20.21	19.79	19.12	18.11	17.44	17.33	16.83	17.01	17.08	17.25	17.27

PICKENS COUNTY

330116088113102. Local number AA-49 (GW12B).
LOCATION.--Lat 33°01'16", long 88°11'31", Hydrologic Unit 03160106, in NW¼ sec. 34, T. 24 N., R. 2 W., at west side of County Road 13, 5.25 mi (8.45 km) southwest of State Highway 14, 0.30 mi (0.50 km) north of Tombigbee River, and 8.20 mi (13.19 km) south-southwest of Aliceville.
Owner: Corps of Engineers.
AQUIFER.--Sand and gravel of alluvial deposits of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (10 cm), depth 18 ft (6 m), screened 8 to 18 ft (2 to 6 m).
DATUM.--Altitude of land-surface datum is 135.8 ft (41.4 m). Measuring point: Top of casing, 1.80 ft (0.55 m) above land-surface datum.
REMARKS.--Recorder removed October 1, 1979.
PERIOD OF RECORD.--September 1974 to January 11, 1978 (periodic only), March 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.13 ft (1.87 m) below land-surface datum, Apr. 14, 1979; lowest, 10.60 ft (3.23 m) below land-surface datum, Dec. 28, 29, 30, 31, 1978, Jan. 1, 2, 3, 4, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 6.18 ft (1.87 m) below land-surface datum, Apr. 14; lowest, 10.60 ft (3.23 m) below land-surface datum, Dec. 28, 29, 30, 31, Jan. 1, 2, 3, 4.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.15	10.41	10.54	10.59	9.53	7.87	7.68	7.41	8.34	8.98	9.45	9.87
10	10.19	10.44	10.55	10.48	9.37	7.87	7.42	7.61	8.46	9.06	9.52	9.92
15	10.24	10.44	10.56	10.37	9.25	7.86	6.58	7.78	8.56	9.14	9.60	9.98
20	10.28	10.46	10.57	9.50	9.14	7.86	6.50	7.94	8.67	9.22	9.67	10.01
25	10.32	10.49	10.59	9.91	8.60	8.08	6.87	8.10	8.78	9.29	9.74	10.00
EOM	10.37	10.52	10.60	9.67	8.56	8.20	7.22	8.27	8.87	9.37	9.81	10.02
MAX	10.37	10.52	10.60	10.60	9.64	8.37	8.24	8.27	8.87	9.37	9.81	10.02

PICKENS COUNTY

331107088180301. Local number, P-25 (USCE GW 21A).
LOCATION.--Lat 33°11'07", long 88°18'03", Hydrologic Unit 03160106, in SW¼ sec. 34, T. 21 S., R. 17 W., at west side of dirt road, 1.8 mi (2.9 km) east of Sardis Church in Mississippi, 0.7 mi (1.1 km) west of Big Creek cutoff (Tombigbee River), and 3.5 mi (5.6 km) southwest of Pickensville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (10 cm), depth 137 ft (42 m), screened 117 to 137 ft (36 to 42 m).
DATUM.--Altitude of land-surface datum is 139.8 ft (42.6 m). Measuring point: Top of casing, 1.70 ft (0.52 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--June 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.05 ft (0.32 m) below land-surface datum, Apr. 15, 1979; lowest, 6.08 ft (1.85 m) below land-surface datum, Oct. 30, 31, Nov. 3, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 1.05 ft (0.32 m) below land-surface datum, Apr. 15; lowest, 6.08 ft (1.85 m) below land-surface datum, Oct. 30, 31, Nov. 3.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.99	6.07	5.68			---	4.03	3.79	3.85	4.29	4.09	4.28
10	6.03	6.04	5.53			---	3.96	3.85	3.89	4.20	4.16	4.35
15	6.04	6.04	5.50			---	1.15	3.81	4.00	4.18	4.23	3.97
20	6.04	5.95	5.45			---	3.59	3.89	4.10	4.13	4.29	3.90
25	6.05	5.94	5.39			4.05	3.66	3.96	4.15	3.96	4.24	3.81
EOM	6.08	5.82	---			4.12	3.75	3.99	4.19	4.05	4.30	3.83
MAX	6.08	6.08	5.82			4.12	4.12	3.99	4.19	4.29	4.31	4.35

PICKENS COUNTY

331107088180302. Local number, P-26 (USCE GW 21B).
LOCATION.--Lat 33°11'07", long 88°18'03", Hydrologic Unit 03160106, in SW¼ sec. 34, T. 21 S., R. 17 W., at west side of dirt road, 1.8 mi (2.9 km) east of Sardis Church in Mississippi, 0.7 mi (1.1 km) west of Big Creek cutoff (Tombigbee River), and 3.5 mi (5.6 km) southwest of Pickensville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of alluvial deposits of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (10 cm), depth 14 ft (4 m), screened 9 to 14 ft (3 to 4 m).
DATUM.--Altitude of land-surface datum is 139.8 ft (42.6 m). Measuring point: Top of casing, 2.00 ft (0.61 m) above land-surface datum.
REMARKS.--Missing record due to recorder malfunction.
PERIOD OF RECORD.--June 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.09 ft (0.02 m) above land-surface datum, Mar. 31, 1976; lowest, 13.51 ft (4.12 m) below land-surface datum, Dec. 29, 30, 31, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 10.50 ft (3.20 m) below land-surface datum, Sept. 21; lowest, 13.51 ft (4.12 m) below land-surface datum, Dec. 29, 30, 31.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.39	13.04	13.39								---	11.61
10	12.53	13.11	13.45								---	11.73
15	12.64	13.25	13.47								---	11.89
20	12.74	13.30	13.49								---	11.89
25	12.84	13.34	13.49								11.35	11.73
EOM	12.95	13.38	13.51								11.49	11.72
MAX	12.95	13.38	13.51								11.49	11.92

PICKENS COUNTY

331351088175001. Local number P-19 (USCE 122A).
LOCATION.--Lat 33°13'51", long 88°17'50", Hydrologic Unit 03160106, in SE¼ sec. 15, T. 21 N., R. 17 W., at south side of dirt road, 0.17 mi (0.27 km) west of Pickensville cutoff (Tombigbee River), and 1.8 mi (2.9 km) west of Pickensville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (10 m), depth 135 ft (41 m), screened 125 to 135 ft (38 to 41 m).
DATUM.--Altitude of land-surface datum is 140 ft (43 m). Measuring point: Top of casing, 1.40 ft (0.43 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--October 1972 to May 25, 1977 (periodic only), March 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.26 ft (0.08 m) above land-surface datum, Apr. 13, 1979; lowest, 4.14 ft (1.26 m) below land-surface datum, Nov. 14, 15, 16, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 0.26 ft (0.08 m) above land-surface datum, Apr. 13; lowest, 4.14 ft (1.26 m) below land-surface datum, Nov. 14, 15, 16.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.99	4.12	3.83	3.35	2.72	2.45	2.37	2.21	2.16	2.62	2.43	2.59
10	4.05	4.12	3.68	3.14	2.72	2.45	2.34	2.26	2.21	2.50	2.44	2.69
15	3.99	4.14	3.68	3.15	2.72	2.50	.28	2.18	2.32	2.45	2.52	2.38
20	4.03	4.05	3.64	2.92	2.69	2.50	2.07	2.24	2.42	2.49	2.59	2.34
25	4.05	4.06	3.61	2.75	2.57	2.46	2.13	2.29	2.45	2.34	2.50	2.26
EOM	4.12	3.97	3.58	2.69	2.59	2.50	2.23	2.26	2.51	2.40	2.56	2.30
MAX	4.12	4.14	3.98	3.52	2.75	2.55	2.50	2.31	2.51	2.62	2.62	2.69

SUMTER COUNTY

325212088121601. Local number, F-9 (131A).
LOCATION.--Lat 32°52'12", long 88°12'16", Hydrologic Unit 03160106, in SW¼ sec. 21, T. 22 N., R. 2 W., at east side County Road 85, 0.10 mi (0.16 km) southwest of Springhill Church, 1.35 mi (2.17 km) east of Tombigbee River, and 4.2 mi (6.8 km) northwest of Gainesville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of Eutaw Formation of Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (10 cm), depth 390 ft (119 m), slotted 370 to 390 ft (113 to 119 m).
DATUM.--Altitude of land-surface datum is 140.6 ft (42.9 m). Measuring point: Top of casing, 1.60 ft (0.49 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--October 1972 to January 1978 (periodic only), March 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.37 ft (3.77 m) below land-surface datum, Apr. 2, 1973; lowest, 15.75 ft (4.80 m) below land-surface datum, Sept. 10, 11, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 13.55 ft (4.13 m) below land-surface datum, Apr. 16, 17; lowest, 15.75 ft (4.80 m) below land-surface datum, Sept. 10, 11.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.30	15.37	15.44	15.14	14.63	14.44	14.45	14.12	14.34	14.95	15.22	15.67
10	15.32	15.43	15.47	14.99	14.64	14.29	14.38	14.28	14.46	14.82	15.31	15.75
15	15.35	15.45	15.50	14.99	14.60	14.30	13.84	14.29	14.56	14.86	15.43	15.46
20	15.32	15.52	15.35	14.81	14.66	14.30	13.59	14.35	14.68	14.87	15.54	15.31
25	15.31	15.60	15.21	14.84	14.58	14.35	13.63	14.32	14.62	14.90	15.61	15.23
EOM	15.37	15.53	15.17	14.65	14.58	14.45	13.94	14.32	14.64	15.04	15.68	15.17
MAX	15.37	15.63	15.58	15.18	14.68	14.55	14.46	14.38	14.70	15.05	15.71	15.75

SUMTER COUNTY

325215088111301. Local number, F-10 (USCE 132A).
LOCATION.--Lat 32°52'15", long 88°11'13", Hydrologic Unit 03160106, in SW¼ sec. 22, T. 22 N., R. 2 W., at north side of dirt road, 1.0 mi (1.6 km) east of Springhill Church, 0.35 mi (0.56 km) east of Tombigbee River, and 3.7 mi (6.0 km) northwest of Gainesville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (10 cm), depth 370 ft (113 m), slotted 350 to 370 ft (107 to 113 m).
DATUM.--Altitude of land-surface datum is 162.82 ft (49.63 m). Measuring point: Top of casing, 2.00 ft (0.61 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--October 1972 to March 1973 (periodic only), March 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.18 ft (10.42 m) below land-surface datum, Mar. 27, 1973; lowest, 39.12 ft (11.92 m) below land-surface datum, Nov. 7, 1974.
EXTREMES FOR CURRENT YEAR.--Highest water level, 35.59 ft (10.85 m) below land-surface datum, Apr. 17, 18; lowest, 38.21 ft (11.65 m) below land-surface datum, Oct. 1.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.17	38.11	37.91	37.77	37.47	37.34	37.35	---			---	38.08
10	38.15	38.11	37.89	37.67	37.45	37.35	37.31	---			---	38.16
15	38.15	38.10	37.87	37.73	37.43	37.45	36.32	---			---	38.01
20	38.11	38.11	37.84	37.55	37.50	37.40	35.89	---			---	37.96
25	38.09	38.10	37.79	37.46	37.40	37.41	36.62	---			38.06	37.92
EOM	38.16	38.02	37.78	37.47	37.43	37.46	36.97	---			38.10	37.99
MAX	38.21	38.14	38.03	37.81	37.52	37.50	37.39	37.03			38.11	38.17

TUSCALOOSA COUNTY

331045087342501. Local number, Tus-4.
LOCATION.--Lat 33°10'45", long 87°34'25", Hydrologic Unit 03160113, in NW¼ sec. 34, T. 21 S., R. 10 W., at dirt road, 0.2 mi (0.3 km) southeast of City Water Works Filter Plant South, and 1.0 mi (1.6 km) southwest of Greensboro Avenue, Tuscaloosa.
Owner: City of Tuscaloosa.
AQUIFER.--Sand of Coker Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 83 ft (25 m), screened 77 to 83 ft (23 to 25 m).
DATUM.--Altitude of land-surface datum is 160 ft (49 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--August 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.64 ft (5.38 m) below land-surface datum, Apr. 1, 1976; lowest, 35.9 ft (10.9 m) below land-surface datum, Dec. 5, 1969.
EXTREMES FOR CURRENT YEAR.--Highest water level, 19.66 ft (5.99 m) below land-surface datum, Apr. 13; lowest, 23.47 ft (7.15 m) below land-surface datum, Nov. 28.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.11	23.36	23.09	22.56	22.10	20.62	21.15	21.07	21.78	22.03	21.10	20.81
10	23.15	23.40	22.90	22.38	22.06	20.66	21.12	21.28	21.89	21.58	21.09	20.95
15	23.24	23.41	22.88	22.61	22.05	21.08	19.85	21.40	21.83	21.31	20.63	20.69
20	23.22	23.43	22.88	22.31	22.10	21.27	20.31	21.51	21.93	21.34	20.74	20.27
25	23.26	23.43	22.93	21.88	21.68	21.42	20.54	21.65	21.98	21.14	20.89	20.19
EOM	23.35	23.29	22.85	22.01	21.70	21.61	20.92	21.74	21.99	21.08	20.93	20.34
MAX	23.35	23.47	23.29	22.75	22.20	21.70	21.64	21.74	22.00	22.05	21.11	20.95

TUSCALOOSA COUNTY

331239087323601. Local number, Tus-1.
LOCATION.--Lat 33°12'39", long 87°32'36", Hydrologic Unit 03160112, in NE¼ sec. 23, T. 21 S., R. 10 W., at northeast corner of Smith Hall on University of Alabama campus, University.
Owner: University of Alabama.
AQUIFER.--Sand and gravel of Coker Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (10 cm), depth 61 ft (19 m), screened 55 to 61 ft (17 to 19 m).
DATUM.--Altitude of land-surface datum is 230.1 ft (70.1 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Missing record due to recorder malfunction.
PERIOD OF RECORD.--January 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.72 ft (6.62 m) below land-surface datum, June 1, 7, 8, 1976; lowest, 27.86 ft (8.49 m) below land-surface datum, Jan. 10, 11, 13, 1955.
EXTREMES FOR CURRENT YEAR.--Highest water level, 23.36 ft (7.12 m) below land-surface datum, May 9; lowest, 26.55 ft (8.09 m) below land-surface datum, Dec. 17.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.86	---	---	---	26.05	25.56		---	23.81	24.31	24.74	25.15
10	25.91	---	---	---	25.92	25.30		23.41	23.92	24.38	24.81	25.20
15	25.97	---	26.52	---	25.88	25.08		23.47	23.97	24.46	24.87	25.27
20	---	---	---	26.40	25.79	24.84		23.54	24.08	24.52	24.93	25.28
25	---	26.53	---	26.34	25.74	---		23.65	24.15	24.59	25.02	25.26
EOM	---	---	---	26.14	25.71	---		23.76	24.22	24.67	25.10	25.23
MAX	25.99	26.53	26.55	26.44	26.14	25.67		23.76	24.22	24.67	25.11	25.28

TUSCALOOSA COUNTY

331340087381601. Local number, Tus-5.
LOCATION.--Lat 33°13'40", long 87°38'16", Hydrologic Unit 03160113, in NE¼ sec. 13, T. 21 S., R. 11 W., at Bryce Hospital Intermediate Care Facility, 0.4 mi (0.6 km) south of U.S. Highway 82, and 3.1 mi (5.0 km) southeast of Coker.
Owner: Bryce Hospital.
AQUIFER.--Sand of Coker Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 109 ft (33 m), screened 103 to 109 ft (31 to 33 m).
DATUM.--Altitude of land-surface datum is 157 ft (48 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--January 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.22 ft (5.86 m) below land-surface datum, Apr. 6, 1976; lowest, 34.4 ft (10.5 m) below land-surface datum, Sept. 15, 1965.
EXTREMES FOR CURRENT YEAR.--Highest water level, 19.49 ft (5.93 m) below land-surface datum, Apr. 15; lowest, 27.22 ft (8.30 m) below land-surface datum, Dec. 7.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.23	23.95	26.23	25.90	24.82	23.28	24.01	23.60	21.84	22.27	22.44	22.70
10	25.37	24.02	26.19	25.71	24.72	23.24	23.71	23.85	21.92	22.22	22.47	22.76
15	23.76	25.73	26.01	25.74	24.63	23.86	21.74	24.06	21.99	22.30	22.52	22.81
20	23.83	25.78	26.08	25.26	24.64	23.88	22.53	24.15	22.07	22.33	22.56	22.70
25	23.99	25.83	26.08	24.92	24.16	24.12	22.96	21.92	22.14	22.34	22.64	22.67
EOM	23.81	26.14	25.97	24.83	24.05	24.17	23.42	21.89	22.13	22.40	22.65	22.63
MAX	25.44	26.23	27.22	26.48	25.14	24.22	24.20	24.17	22.14	22.40	22.68	22.86

TUSCALOOSA COUNTY

332224087282701. Local number, TW-26.
LOCATION.--Lat 33°22'24", long 87°28'27", Hydrologic Unit 03160112, in SW¼ sec. 22, T. 19 S., R. 9 W., at dirt road 0.8 mi (1.3 km) east of junction with Yellow Creek Road, 8.1 mi (13.0 km) south of Windham Springs, and 11.5 mi (18.5 km) north of Tuscaloosa.
Owner: D. Cunningham.
AQUIFER.--Pottsville Formation of Early and Middle Pennsylvanian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 124 ft (38 m), cased to 31 ft (9 m), open hole below casing.
DATUM.--Altitude of land-surface datum is 395 ft (120 m). Measuring point: Top of casing, 1.90 ft (0.58 m) above land-surface datum.
PERIOD OF RECORD.--Current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.98 ft (3.35 m) below land-surface datum, Apr. 13, 1979; lowest, 16.78 ft (5.11 m) below land-surface datum, Aug. 30, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 10.98 ft (3.35 m) below land-surface datum, Apr. 13; lowest, 16.78 ft (5.11 m) below land-surface datum, Aug. 30.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5						---	15.92	---	16.31	16.76	---	16.67
10						---	16.10	16.42	16.35	16.45	---	16.75
15						16.39	15.61	16.35	16.37	16.65	16.73	16.60
20						16.42	16.19	16.39	16.40	---	---	16.37
25						16.24	16.22	16.37	16.29	---	---	16.46
EOM						16.37	16.36	16.24	16.73	---	---	16.59
MAX						16.42	16.36	16.42	16.73	16.76	16.75	16.76

TUSCALOOSA COUNTY

332251087280001. Local number, Barger No. 109.
LOCATION.--Lat 33°22'51", long 87°28'00", Hydrologic Unit 03160112, in NW¼ sec. 22, T. 19 S., R. 9 W., at dirt road 8.0 mi (12.9 km) southeast of Windham Springs, and 12.0 mi (19.3 km) north of Tuscaloosa.
Owner: Milburn Barger.
AQUIFER.--Sand and gravel of Coker Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Dug unused water-table well, diameter 24 in (61 cm), depth 28 ft (9 m), walled to 28 ft (9 m), open end.
DATUM.--Altitude of land-surface datum is 496 ft (151 m). Measuring point: Top of concrete wall, 2.00 ft (0.61 m) above land-surface datum.
PERIOD OF RECORD.--May 16, 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.43 ft (3.48 m) below land-surface datum, Apr. 13, 1979; lowest, 25.05 ft (7.64 m) below land-surface datum, Dec. 1, 2, 3, 4, 6, 7, 8, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 11.43 ft (3.48 m) below land-surface datum, Apr. 13; lowest, 25.05 ft (7.64 m) below land-surface datum, Dec. 1, 2, 3, 4, 6, 7, 8.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.83	24.96	25.04	24.60	23.76	20.82	23.18	23.57	24.13	24.48	24.67	24.73
10	24.86	24.97	24.95	24.13	23.82	22.81	23.35	23.72	24.19	24.50	24.70	24.74
15	24.88	24.99	25.01	24.39	23.88	23.32	20.39	23.83	24.24	24.55	24.73	24.72
20	24.89	25.01	25.04	24.47	23.98	23.57	22.58	23.91	24.30	24.57	24.75	24.33
25	24.91	25.03	25.03	23.16	23.51	23.54	23.09	23.99	24.35	24.60	24.78	24.20
EOM	24.93	25.04	25.02	23.53	23.27	23.68	23.40	24.07	24.43	24.64	24.74	24.38
MAX	24.93	25.04	25.05	24.99	24.01	23.68	23.72	24.07	24.43	24.64	24.81	24.74

TUSCALOOSA COUNTY

332304087285601. Local number, TW-24.
LOCATION.--Lat 33°23'04", long 87°28'56", Hydrologic Unit 03160112, in NE¼ sec. 25, T. 19 S., R. 9 W., at dirt road 0.8 mi (1.3 km) north of junction with Yellow Creek Road, 7.6 mi (12.2 km) south of Windham Springs, and 11.8 mi (19.0 km) north of Tuscaloosa.
Owner: Allen Turner.
AQUIFER.--Sand and gravel of Coker Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (15 cm), depth 58 ft (18 m), cased to 46 ft (14 m), screened 46 to 58 ft (14 to 18 m).
DATUM.--Altitude of land-surface datum is 498 ft (152 m). Measuring point: Top of casing, 1.40 ft (0.43 m) above land-surface datum.
PERIOD OF RECORD.--Current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 32.88 ft (10.02 m) below land-surface datum, May 19, 1979; lowest, 34.49 ft (10.51 m) below land-surface datum, Sept. 22, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 32.88 ft (10.02 m) below land-surface datum, May 19; lowest, 34.49 ft (10.51 m) below land-surface datum, Sept. 22.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5								---	33.14	33.51	33.82	34.22
10								---	33.22	33.47	33.88	34.33
15								33.06	33.32	33.63	33.94	34.43
20								33.00	33.38	33.62	34.00	34.37
25								33.09	33.44	33.65	34.11	34.47
EOM								33.15	33.34	33.76	34.15	34.46
MAX								33.15	33.44	33.76	34.17	34.49

TUSCALOOSA COUNTY

332411087275101. Local number, TW-16.
LOCATION.--Lat 33°24'11", long 87°27'51", Hydrologic Unit 03160112, in SE¼ sec. 10, T. 19 S., R. 9 W., at dirt road 1.5 mi (2.4 km) west of junction with Watermelon Road, 6.4 mi (10.3 km) southeast of Windham Springs, and 13.4 mi (21.6 km) north of Tuscaloosa.
Owner: Gulf States Paper Company.
AQUIFER.--Sand and gravel of Coker Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (15 cm), depth 102 ft (31 m), cased to 89 ft (27 m), screened 88 to 98 ft (27 to 31 m).
DATUM.--Altitude of land-surface datum is 583 ft (178 m). Measuring point: Top of casing, 1.30 ft (0.40 m) above land-surface datum.
PERIOD OF RECORD.--Current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 70.93 ft (21.62 m) below land-surface datum, June 3, 4, 5, 6, 7, 1979; lowest, 76.86 ft (23.37 m) below land-surface datum, Mar. 14, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 70.93 ft (21.62 m) below land-surface datum, June 3, 4, 5, 6, 7; lowest, 76.86 ft (23.37 m) below land-surface datum, Mar. 14.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5						---	75.59	72.18	70.93	71.55	72.31	73.22
10						---	75.32	71.74	---	71.59	72.47	73.40
15						76.83	74.96	71.41	---	71.77	72.63	73.58
20						76.45	74.34	71.16	---	71.88	72.75	73.69
25						76.14	73.53	71.03	---	72.02	72.92	73.86
EOM						75.80	72.81	70.95	---	72.18	73.05	73.96
MAX						76.86	75.72	72.66	70.95	72.18	73.08	73.96

TUSCALOOSA COUNTY

332441087271301. Local number, TW-17.
LOCATION.--Lat 33°24'41", long 87°27'13", Hydrologic Unit 03160112, in NW¼ sec. 11, T. 19 S., R. 9 W., at dirt road 0.8 mi (1.3 km) west of junction with Watermelon Road, 5.2 mi (8.4 km) southeast of Windham Springs, and 14.2 mi (22.9 km) north of Tuscaloosa.
Owner: Gulf States Paper Company.
AQUIFER.--Pottsville Formation of Early and Middle Pennsylvanian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 170 ft (52 m), cased to 106 ft (32 m), open hole below casing.
DATUM.--Altitude of land-surface datum is 602 ft (183 m). Measuring point: Top of casing 1.30 ft (0.40 m) above land-surface datum.
PERIOD OF RECORD.--Current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 69.37 ft (21.14 m) below land-surface datum, May 7, 1979; lowest, 71.37 ft (21.75 m) below land-surface datum, Mar. 15, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 69.37 ft (21.14 m) below land-surface datum, May 7; lowest, 71.37 ft (21.75 m) below land-surface datum, Mar. 15.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5						---	71.18	69.43	69.86	69.55	69.89	70.31
10						---	71.12	69.50	69.82	69.62	70.03	70.44
15						71.37	70.48	69.59	69.75	69.57	70.09	70.45
20						71.30	70.23	69.67	---	69.55	70.19	70.45
25						71.26	69.94	69.75	---	69.60	70.23	70.51
EOM						71.26	69.70	69.89	---	69.77	70.22	70.62
MAX						71.37	71.22	69.89	69.87	69.77	70.25	70.62

TUSCALOOSA COUNTY

332603087275001. Local number, TW-15.
LOCATION.--Lat 33°26'03", long 87°27'50", Hydrologic Unit 03160112, in SW¼ sec. 34, T. 18 S., R. 9 W., at dirt road 2.3 mi (3.7 km) east of junction with State Highway 69, 4.6 mi (7.4 km) southeast of Windham Springs, and 15.3 mi (24.6 km) north of Tuscaloosa.
Owner: B. Clements.
AQUIFER.--Sand and gravel of Coker Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (15 cm), depth 65 ft (20 m), cased to 52 ft (16 m), screened 52 to 65 ft (16 to 20 m).
DATUM.--Altitude of land-surface datum is 596 ft (182 m). Measuring point: Top of casing 1.20 ft (0.37 m) above land-surface datum.
PERIOD OF RECORD.--Current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 44.67 ft (13.62 m) below land-surface datum, May 10, 1979; lowest, 49.99 ft (15.24 m) below land-surface datum, Jan. 8, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 44.67 ft (13.62 m) below land-surface datum, May 10; lowest, 49.99 ft (15.24 m) below land-surface datum, Jan. 8.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5			---	49.88	48.70	48.00	46.49	---	45.11	45.76	46.49	47.26
10			---	49.86	---	46.91	46.35	44.69	45.25	45.83	46.60	47.39
15			49.63	49.87	48.59	46.73	45.44	44.81	45.35	45.99	46.75	47.53
20			49.69	49.47	48.58	46.55	---	44.83	45.49	46.10	46.85	47.58
25			49.83	48.99	48.56	46.57	---	44.93	45.60	46.21	47.01	47.68
EOM			49.87	48.75	48.41	46.47	---	45.06	45.70	46.36	47.14	47.74
MAX			49.88	49.99	48.80	48.41	46.49	45.06	45.70	46.36	47.17	47.74

TUSCALOOSA COUNTY

333204087324601. Local number, TW-5.
LOCATION.--Lat 33°32'04", long 87°32'46". Hydrologic Unit 03160112, in SE¼ sec. 26, T. 17 S., R. 10 W., at dirt road 3.2 mi (5.2 km) north of junction with Windham Springs Road, 4.2 mi (6.8 km) northwest of Windham Springs, and 21.0 mi (33.8 km) north of Tuscaloosa.
Owner: Gulf States Paper Company.
AQUIFER.--Pottsville Formation of Early and Middle Pennsylvanian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 60 ft (18 m), cased to 32 ft (10 m), open hole below casing.
DATUM.--Altitude of land-surface datum is 519 ft (158 m). Measuring point: Top of casing, 2.00 ft (0.61 m) above land-surface datum.
PERIOD OF RECORD.--Current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.60 ft (11.16 m) below land-surface datum, Sept. 23, 1979; lowest, 42.24 ft (12.87 m) below land-surface datum, July 6, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 36.60 ft (11.16 m) below land-surface datum, Sept. 23; lowest, 42.24 ft (12.87 m) below land-surface datum, July 6.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5								---	40.83	42.22	41.15	41.88
10								---	41.51	42.10	41.61	42.08
15								---	41.83	42.00	41.88	40.50
20								41.59	42.01	42.16	41.86	38.88
25								41.84	42.04	38.55	41.93	38.16
EOM								40.81	42.03	40.33	41.98	39.93
MAX								41.90	42.09	42.24	41.99	42.08

TUSCALOOSA COUNTY

333220087293901. Local number, Zennah No. 50.
LOCATION.--Lat 33°32'20", long 87°29'39", Hydrologic Unit 03160112, in NE¼ sec. 29, T. 17 S., R. 9 W., at dirt road 2.0 mi (3.2 km) north of junction with State Highway 69, 3.5 mi (5.6 km) north of Windham Springs, and 22.0 mi (35.4 km) north of Tuscaloosa.
Owner: Clayton Zennah.
AQUIFER.--Pottsville Formation of Early and Middle Pennsylvanian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 61 ft (19 m), casing depth unknown, open hole below casing.
DATUM.--Altitude of land-surface datum is 553 ft (168 m). Measuring point: Top of casing, 1.50 ft (0.46 m) above land-surface datum.
PERIOD OF RECORD.--October 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.30 ft (5.88 m) below land-surface datum, Mar. 12, 1978; lowest, 36.12 ft (11.01 m) below land-surface datum, July 14, 15, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 20.89 ft (6.37 m) below land-surface datum, Jan. 24; lowest, 36.12 ft (11.01 m) below land-surface datum, July 14, 15.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5		---	33.71	25.19	27.67	22.47	29.37	34.94	---	35.89	34.55	35.66
10		33.48	29.48	26.00	28.32	28.70	33.02	35.09	---	36.04	34.87	35.63
15		33.57	27.93	27.29	29.38	33.39	28.14	---	---	36.12	35.05	31.08
20		33.64	28.36	27.60	29.65	34.35	31.78	---	---	36.11	35.24	25.53
25		33.68	26.30	22.19	23.90	33.68	34.27	---	---	29.39	35.45	29.34
EOM		33.70	26.95	26.83	27.21	33.97	34.85	---	35.81	33.44	35.62	32.94
MAX		33.70	33.71	27.66	29.83	34.42	34.85	35.09	35.81	36.12	35.62	35.67

TUSCALOOSA COUNTY

333322087335701. Local number, TW-7.
LOCATION.--Lat 33°33'22", long 87°33'57", Hydrologic Unit 03160112, in NW¼ sec. 23, T. 17 S., R. 10 W., at dirt road 4.9 mi (7.9 km) north of junction with State Highway 69, 4.2 mi (6.8 km) northwest of Windham Springs, and 22.3 mi (35.9 km) north of Tuscaloosa.
Owner: S. D. Dollar.
AQUIFER.--Pottsville Formation of Early and Middle Pennsylvanian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 150 ft (46 m), cased to 34 ft (10 m), open hole below casing.
DATUM.--Altitude of land-surface datum is 456 ft (139 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
PERIOD OF RECORD.--Current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 78.94 ft (24.06 m) below land-surface datum, Apr. 14, 15, 1979; lowest, 80.92 ft (24.66 m) below land-surface datum, Aug. 16, 17, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 78.94 ft (24.06 m) below land-surface datum, Apr. 14, 15; lowest, 80.92 ft (24.66 m) below land-surface datum, Aug. 16, 17.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5							79.31	79.41	79.70	80.52	80.84	80.77
10							79.17	79.44	79.82	80.46	80.87	80.87
15							78.97	79.73	80.01	80.53	80.88	80.65
20							79.18	79.76	80.14	80.63	80.90	80.68
25							79.26	79.91	80.20	80.32	80.73	---
EOM							79.50	79.69	80.34	80.59	80.86	---
MAX							79.50	79.95	80.35	80.64	80.92	80.91

TUSCALOOSA COUNTY

333344087291001. Local number, TW-4.
LOCATION.--Lat 33°33'44", long 87°29'10", Hydrologic Unit 03160112, in SW¼ sec. 16, T. 17 S., R. 9 W., at Cheatham Road 3.8 mi (6.1 km) north of junction with State Highway 69, 4.9 mi (7.9 km) north of Windham Springs, and 22.9 mi (36.9 km) north of Tuscaloosa.
Owner: Albert Holman.
AQUIFER.--Pottsville Formation of Early and Middle Pennsylvanian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 347 ft (106 m), cased to 25 ft (8 m), open hole below casing.
DATUM.--Altitude of land-surface datum is 639 ft (195 m). Measuring point: Top of casing, 0.50 ft (0.15 m) above land-surface datum.
PERIOD OF RECORD.--Current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 84.03 ft (25.61 m) below land-surface datum, Apr. 25, 1979; lowest, 89.78 ft (27.36 m) below land-surface datum, Sept. 8, 10, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 84.03 ft (25.61 m) below land-surface datum, Apr. 25; lowest, 89.78 ft (27.36 m) below land-surface datum, Sept. 8, 10.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5						---	85.78	85.31	86.69	87.98	87.52	89.23
10						---	85.12	85.74	86.47	88.28	87.76	89.78
15						85.40	84.71	86.17	86.73	88.42	88.13	---
20						85.38	84.29	86.49	87.08	88.50	87.89	---
25						85.85	84.15	86.91	87.43	88.19	87.57	---
EOM						85.82	84.84	87.07	87.63	87.40	88.26	---
MAX						85.92	85.78	87.11	87.69	88.51	88.26	89.78

TUSCALOOSA COUNTY

333451087331501. Local number, TW-8.
LOCATION.--Lat 33°34'51", long 87°33'15", Hydrologic Unit 03160112, in SW¼ sec. 11, T. 17 S., R. 10 W., at Sterling Road 4.2 mi (6.8 km) west of junction with State Highway 69, 6.9 mi (11.1 km) northwest of Windham Springs, and 24.0 mi (38.6 km) north of Tuscaloosa.
Owner: T. H. Miller.
AQUIFER.--Pottsville Formation of Early and Middle Pennsylvanian age.
WELL CHARACTERISTICS.--Drilled observation artesian well. Diameter 6 in (15 cm), depth 150 ft (46 m), cased to 22 ft (7 m), open hole below casing.
DATUM.--Altitude of land-surface datum is 482 ft (147 m). Measuring point: Top of casing 1.40 ft (0.43 m) above land-surface datum.
PERIOD OF RECORD.--Current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 35.79 ft (10.91 m) below land-surface datum, Apr. 13, 1979; lowest, 40.77 ft (12.43 m) below land-surface datum, Aug. 30, 1979.
EXTREMES FOR CURRENT YEAR.--Highest water level, 35.79 ft (10.91 m) below land-surface datum, Apr. 13; lowest, 40.77 ft (12.43 m) below land-surface datum, Aug. 30.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5							---		38.76	40.63	---	40.06
10							37.48		38.44	40.14	39.62	40.07
15							36.38		38.89	39.87	40.11	38.88
20							37.45		39.48	40.01	40.34	37.80
25							---		39.98	37.88	40.56	37.48
EOM							---		40.21	38.34	40.71	38.00
MAX							37.61		40.21	40.72	40.77	40.67

NOXUBEE COUNTY, MISSISSIPPI

331426088192202. Local number, E-26 (USCE 121B).
LOCATION.--Lat 33°14'26", long 88°19'22", Hydrologic Unit 03160106, in SE¼ sec. 14, T. 16 N., R. 19 E., at south side dirt road, 1.8 mi (2.9 km) northwest of Pickensville cutoff (Tombigbee River), and 3.4 mi (5.5 km) west of Pickensville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of alluvial deposits of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (10 cm), depth 30 ft (9 m), screened 20 to 30 ft (6 to 9 m).
DATUM.--Altitude of land-surface datum is 146.64 ft (44.70 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--Sept. 1972 to May 25, 1977 (periodic only), July 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.52 ft (0.16 m) below land-surface datum, Apr. 13, 1979; lowest, 10.10 ft (3.08 m) below land-surface datum, Oct. 13, 1972.
EXTREMES FOR CURRENT YEAR.--Highest water level, 0.52 ft (0.16 m) below land-surface datum, Apr. 13; lowest, 10.06 ft (3.07 m) below land-surface datum, Nov. 28, 29.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.22	9.84	9.96	7.71	4.70	3.19	4.62	4.43	---		---	7.17
10	9.35	9.91	9.72	6.69	4.66	3.72	4.50	4.78	---		---	7.33
15	9.46	9.96	9.22	6.36	4.87	4.11	1.70	4.54	---		---	6.73
20	9.55	9.99	8.99	6.26	4.74	4.46	2.84	4.95	---		---	---
25	9.64	10.03	8.83	4.57	4.28	4.67	3.45	5.24	---		6.85	---
EOM	9.75	10.04	8.67	4.45	4.31	4.95	4.03	5.48	---		7.03	---
MAX	9.75	10.06	10.04	8.62	4.97	4.95	5.03	5.48	5.50		7.03	7.39

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☆U.S. GOVERNMENT PRINTING OFFICE: 1980-740-959

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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