

DISCHARGE DATA AT WATER-QUALITY  
MONITORING STATIONS IN ARKANSAS,  
1981 WATER YEAR

By R. K. Knott

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DISCHARGE DATA AT WATER-QUALITY MONITORING STATIONS IN ARKANSAS,  
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ABSTRACT

This report contains discharge data for a network of water-quality monitoring stations operated throughout the State by the Arkansas Department of Pollution Control and Ecology. Some of the stations are located at Geological Survey or U.S. Army Corps of Engineers daily-discharge stations, but most stations are at points where discharges are not regularly measured.

INTRODUCTION

This is a brief summary of the objectives, accomplishments, and work plans of a cooperative program between the Arkansas Department of Pollution Control and Ecology (ADPC&E) and the U.S. Geological Survey.

OBJECTIVES

The primary objective of the program is to furnish discharge data for a network of water-quality monitoring stations operated throughout the State by the ADPC&E. Some of the stations are located at Geological Survey or U.S. Army Corps of Engineers daily-discharge stations, but most stations are at points where discharges are not regularly measured.

Discharges at the stations were obtained as follows:

1. For stations located at regular gaging stations, discharges were obtained from Geological Survey and Corps of Engineers annual publications.
2. For stations not too distant from regular gaging stations, discharges were estimated using gaging-station records.
3. For other stations a series of discharge measurements was made at each station to define a stage-discharge curve from which discharge was computed.

#### ACCOMPLISHMENTS

All stations in the network were visited by Geological Survey personnel. Discharges on days of sampling were determined for 83 of the sites. A summary of those discharges for the water year 1981 is given in table 1. Several discharges at three stations for miscellaneous dates in the 1980 water year are shown in table 2. Several discharges at four stations for miscellaneous dates in the 1979 year are shown in table 3. Several discharges at one station for miscellaneous dates in the 1978 water year are shown in table 4. The letter-digit station numbers and names in tables 1, 2, 3, and 4 were devised and assigned by the ADPC&E. The corresponding eight-digit numbers are assigned downstream-order station numbers as used by the Geological Survey.

## EXPLANATION OF FOOTNOTES AND TERMS USED

Discharges are given as daily mean or instantaneous discharges. "Daily mean discharge" is the arithmetic-average discharge for 24 hours. "Instantaneous discharge" is the discharge at the time when the measurements were made on the stream.

Some footnotes indicate the degree of accuracy of the data. If no footnote is given, the degree of accuracy is "good." "Good" means means that about 95 percent of the daily discharges are within 10 percent of the actual discharge. "Fair," means that about 95 percent of the daily discharges are within 15 percent of the actual discharge. "Poor" means that daily discharges have less than "fair" accuracy.

## WORK PLANS

All stations requiring discharge measurements to define a stage-discharge relation will be visited at regular intervals and measurements will be made as required. Discharge data will be furnished for all stations in the network for days on which quality samples were obtained and as requested by the ADPC&E.

Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981

[All discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily means. Abbreviations used: ARK, Arkansas; FRA, St. Francis; OUA, Ouachita, WHI, White]

Date	Time (hour)	Discharge
<u>ARK 2 (07188910) Butler Creek near Sulphur Springs</u>		
Oct. 07	1255	2.5
Nov. 04	1100	3
Dec. 02	1230	4
Jan. 06	1310	2.5
July 21	1255	26
Aug. 25	1150	19
Sept. 22	1111	16
<u>ARK 3 (07191179) Spavinaw Creek north of Cherokee City</u>		
Oct. 07	1130	*c5.6
Nov. 04	1023	*c8.2
Dec. 02	1200	*9
Jan. 06	1230	*c8.1
Feb. 03	1045	*9
Mar. 03	1105	*19
Mar. 31	1010	*c17
May 05	1055	*c27
June 02	1105	*c68
July 21	1740	*c15
Aug. 25	1056	*33
Sept. 22	1025	*14
<u>ARK 4 (07195850) Flint Creek north of Siloam Springs</u>		
Oct. 07	1050	*1.4
Nov. 04	1100	*2.9
Dec. 02	1130	*3.8
Jan. 06	1205	*6.0
Feb. 03	1015	*3.3
Mar. 03	1030	*5.8
Mar. 31	0940	*27
May 05	1010	*3.4
June 02	1040	*10
July 21	1115	*5.9
Aug. 25	0825	*7.3
Sept. 22	1000	*5.1

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981--Continued

Date	Time (hour)	Discharge
<u>ARK 6 (07195430) Illinois River south of Siloam Springs</u>		
Oct. 07	0930	*3.6
Nov. 04	0905	*14
Dec. 02	1030	*9.7
Jan. 06	1105	*7.8
Feb. 03	0905	*9.4
Mar. 03	0900	*94
Mar. 31	0830	*108
May 05	0945	*37
June 02	0905	*346
July 21	1030	*12
Aug. 25	0935	*8.4
Sept. 22	0907	*11
<u>ARK 7 (07196900) Baron Fork at Dutch Mills</u>		
Oct. 07	0845	0
Nov. 04	0835	1.0
Dec. 02	1000	1.1
Jan. 06	1015	1.7
Feb. 03	0830	10
Mar. 03	0830	4
Mar. 31	0800	22
May 05	0805	8.0
June 02	0825	113
July 21	0955	.9
Aug. 25	0900	1.0
Sept. 22	0829	.9
<u>ARK 15 (07249400) James Fork near Hackett</u>		
Oct. 21	1610	17
Jan. 27	0930	3.8
Feb. 10	1020	1,320
Feb. 24	1000	35
Mar. 10	1030	90
Mar. 24	1100	97
Apr. 07	1440	43
May 05	1030	18
June 09	1100	320
July 14	1220	41
Aug. 04	1215	74
Sept. 01	1210	42

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
ARK 16 (07247012) Poteau River south of Bates		
Oct. 21	1010	*a25
Jan. 27	1100	*a17
Feb. 10	1120	*a527
Feb. 24	1100	*a54
Mar. 10	1110	*a155
Mar. 24	1210	*a226
Apr. 07	1115	*a76
May 05	1145	*a80
June 09	0945	*a973
July 14	1105	*a64
Aug. 04	1100	*a135
Sept. 01	1025	*a95
ARK 18 (07261250) Cadron Creek west of Conway		
Oct. 28	1520	510
Dec. 02	1420	1,020
Jan. 13	1450	147
Feb. 10	1450	2,200
Mar. 18	0815	4,200
Apr. 07	1510	850
May. 12	1445	1,330
June 09	1515	2,270
July 07	1410	600
Aug. 04	1430	0
Sept. 01	1445	1,450
Sept. 29	1430	0
ARK 20 (07265283) Arkansas River at Dam 2, near Gillett		
Oct. 28	1230	b1 3,300
Dec. 02	1135	b5,280
Jan. 06	1320	b0
Feb. 03	1130	b1,770
Mar. 03	1305	b26,660
Apr. 14	1130	b17,700
May 19	1155	b35,500
June 09	1140	b74,700
July 14	1155	b24,800
Aug. 11	1210	b1,790
Sept. 08	1300	b5,400

See footnotes at end of table, p. 32.



Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981--Continued

Date	Time (hour)	Discharge
<u>ARK 21 (07264050) Bayou Two Prairie near Cabot</u>		
Nov. 12	0900	9.2
Dec. 10	0845	202
Jan. 14	0900	14
Feb. 10	1745	93
Mar. 11	0815	105
<u>ARK 22 (07264000) Bayou Meto near Lonoke</u>		
Oct. 29	0900	16
Dec. 03	0845	269
Jan. 06	0915	33
Feb. 04	0840	396
Mar. 04	0935	643
Apr. 14	1615	95
May. 19	1715	960
June 16	1545	538
July 14	1600	16
Aug. 11	1630	9
Sept. 08	1000	58
<u>ARK 23 (07265099) Bayou Meto near Bayou Meto</u>		
Oct. 29	1055	*b44
Dec. 02	1330	*b1,200
Jan. 06	1130	*b150
Feb. 03	1320	*b190
Mar. 03	1120	*b1,100
Apr. 14	1305	*b1,000
May 19	1055	*b2,100
June 09	1325	*b4,300
July 14	1055	*b39
Aug. 11	1340	*b11
Sept. 08	1130	*b770
<u>ARK 24 (07263750) Arkansas River at Lock and Dam 3, near Swan Lake</u>		
Oct. 29	1005	b0
Dec. 02	1405	b6,400
Jan. 06	1030	0
Feb. 03	1400	b3,300

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981--Continued

Date	Time (hour)	Discharge
<u>ARK 24 (07263750) Arkansas River at Lock and Dam 3, near Swan Lake--Continued</u>		
Mar. 03	1040	b26,900
Apr. 04	1400	b15,300
May 19	1020	b34,600
June 09	1415	b66,200
July 14	1000	b32,500
Aug. 11	1420	b3,300
Sept. 08	1050	b6,400
<u>ARK 29 (07263450) Arkansas River at Murray Dam at Little Rock</u>		
Oct. 07	1715	1,220
Nov. 04	1710	885
Dec. 10	0735	13,200
Jan. 20	1205	839
Feb. 25	0820	10,900
Mar. 25	0900	10,800
Apr. 07	1400	12,400
May 12	1340	47,400
June 09	1335	57,600
July 07	0830	31,900
Aug. 25	1312	3,410
Sept. 22	1400	6,460
<u>ARK 30 (07261260) Arkansas River at Toad Suck Ferry Dam, near Conway</u>		
Oct. 28	0800	b6,400
Dec. 02	0830	b3,300
Jan. 13	0820	b2,200
Feb. 10	0900	b5,400
Mar. 10	1340	b20,400
Apr. 07	1440	b10,400
May. 12	1420	b42,300
June 24	0900	b10,400
July 21	1332	b1,100
Aug. 18	1400	b8,400
Sept. 15	1330	b8,400

See footnotes at end of table, p. 32

Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981--Continued

Date	Time (hour)	Discharge
<u>ARK 31 (07260660) Arkansas River at Dam No. 9 near Oppelo</u>		
Oct. 28	0900	b5,400
Dec. 02	0930	b900
Jan. 13	0920	b900
Feb. 10	0950	b3,600
Mar. 10	1245	b16,700
Apr. 07	1340	b10,700
May 12	1315	b40,600
June 09	1345	b51,500
July 21	1232	b1,800
Aug. 18	1300	b10,700
Sept. 15	1230	b8,000
<u>ARK 32 (07258000) Arkansas River at Dardanelle</u>		
Oct. 28	1130	*50
Dec. 02	1045	*50
Jan. 13	1045	213
Feb. 10	1120	*6,870
Mar. 17	1030	28,100
Apr. 07	1120	7,300
May 12	1445	39,700
June 09	1145	*44,900
July 21	0835	50
Aug. 18	0916	8,300
Sept. 15	0850	7,000
<u>ARK 33 (07252406) Arkansas River at Ozark Dam at Ozark</u>		
Oct. 21	0825	0
Jan. 27	1330	0
Feb. 10	1415	8,720
Feb. 24	1400	5,920
Mar. 10	1410	8,820
Mar. 24	1440	9,540
July 14	0900	*24,600
Aug. 04	0840	*20,300
Sept. 01	0830	*18,300

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
ARK 34 (07258500) Petit Jean River near Booneville		
Oct. 21	0915	18
Jan. 27	1200	17
Feb. 10	1310	314
Feb. 24	1210	43
Mar. 10	1215	154
Mar. 24	1320	230
Apr. 07	1330	68
May 05	1450	21
June 09	0830	439
July 14	1000	14
Aug. 04	0950	58
Sept. 01	0935	20
ARK 35 (07260640) Petit Jean River near Centerville		
Oct. 28	1400	*a147
Dec. 02	1245	*a7
Jan. 13	1110	*a10
Feb. 10	1050	*a1,810
Mar. 17	1100	*a115
Apr. 07	1145	*a124
May 12	1420	*a820
June 09	1400	*a890
July 21	1045	*a6
Aug. 18	1130	*a25
Sept. 15	1050	*a92
ARK 37 (07261500) Fourche LaFave River near Gravelly		
Oct. 28	1300	153
Dec. 02	1145	130
Jan. 13	1200	49
Feb. 10	1230	387
Mar. 17	1140	218
Apr. 07	1250	302
May 12	1320	1,120
June 09	1300	689
July 21	0945	265
Aug. 18	1030	80
Sept. 15	1000	58

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
ARK 38 (07250500) Arkansas River at Van Buren		
Oct. 21	1310	177
Jan. 27	0745	0
Feb. 10	0815	1,870
Feb. 24	0800	190
Mar. 10	0815	6,080
Mar. 24	0820	2,940
Apr. 07	0810	0
May 05	0815	5,560
June 09	1410	39,700
July 14	1400	20,600
Aug. 04	1410	*13,700
Sept. 01	1540	21,300
ARK 39 (07246400) Arkansas River at Robert Kerr Dam 15 near Sallisaw, Okla.		
Oct. 21	1540	0
Jan. 27	0900	0
Feb. 10	0945	0
Feb. 24	0915	8,400
Mar. 10	0940	17,000
Mar. 24	0925	8,500
Apr. 07	0930	0
May 05	0930	0
June 09	1215	17,000
Aug. 04	1310	16,600
Sept. 01	1410	16,800
ARK 40 (07194800) Illinois River near Savoy		
Oct. 07	1355	4.1
Nov. 04	1330	14
Dec. 02	1335	11
Jan. 06	1415	7.1
Feb. 03	1230	8.7
Mar. 03	1310	81
Mar. 31	1205	98
May 05	1235	24
June 02	1305	296

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
ARK 40 (07194800) Illinois River near Savoy--Continued		
July 21	1405	11
Aug. 25	1315	7.6
Sept. 22	1240	10
RED 2 (07340000) Little River near Horatio		
Oct. 14	1320	461
Oct. 28	1100	1,910
Dec. 16	1120	5,230
Jan. 27	1130	393
Feb. 17	1145	2,400
Mar. 17	1115	2,070
Apr. 21	0700	665
May 26	0750	4,870
June 23	0920	7,520
July 21	0900	3,740
Aug. 18	0835	845
Sept. 15	0930	830
RED 4A (07344300) Days Creek southeast of Texarkana		
Oct. 21	1315	c23
Nov. 04	1335	c20
Dec. 16	1315	30
Jan. 06	1315	c17
Feb. 03	1300	c71
Mar. 03	1315	c107
Apr. 21	1315	c21
May 26	1230	390
June 23	1245	c29
July 21	1400	c18
Aug. 18	1215	c150
Sept. 15	1240	c21
RED 5 (07344275) Sulphur River south of Texarkana		
Oct. 21	1245	*1,000
Nov. 04	1230	*1,560
Dec. 16	1230	*1,070
Jan. 06	1230	*25

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
RED 5 (07344275) Sulphur River south of Texarkana--Continued		
Feb. 03	1230	*36
Mar. 03	1230	*335
Apr. 21	1245	*46
May 26	1200	*3,800
June 23	1215	*10,400
July 21	1340	*2,620
Aug. 18	1245	*94
Sept. 15	1300	*146
RED 9 (07344350) Red River at Spring Bank		
Oct. 21	1130	*4,930
Nov. 04	1115	*13,000
Dec. 16	1100	*29,900
Jan. 06	1115	*3,110
Feb. 03	1130	*5,800
Mar. 03	1115	*5,280
Apr. 21	1115	*2,660
May 26	1100	*17,300
June 23	1115	*51,000
July 21	1300	*10,000
Aug. 18	1340	*2,970
Sept. 15	1400	*3,590
RED 15A (07348650) Bayou Dorcheat near Taylor		
Oct. 21	0945	*a1.3
Nov. 04	0930	*a5.9
Dec. 16	0945	*a69
Jan. 06	0930	*a12
Feb. 03	0945	*a49
Mar. 03	0930	*a250
Apr. 21	1205	*a58
May 26	1305	*a1,240
June 23	1210	*a112
July 21	1240	*a15
Aug. 18	1320	*a.7
Sept. 08	1220	*a11

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
RED 21 (07341200) Saline River near Lockesburg		
Oct. 14	1410	34
Oct. 28	1220	474
Dec. 16	1035	831
Jan. 27	1300	41
Feb. 17	1255	507
Mar. 17	1220	133
Apr. 21	0840	157
May 26	0930	544
June 23	1100	819
July 21	0928	810
Aug. 18	1005	32
Sept. 15	1045	9.2
RED 22 (07340520) Cossatot River near Lockesburg		
Oct. 14	1345	*a66
Oct. 28	1200	*a187
Dec. 16	1215	*a1,800
Jan. 27	1230	*a75
Feb. 17	1230	*a1,230
Mar. 17	1200	*a200
Apr. 21	0800	*a220
May 26	0800	*a596
June 23	1030	*a1,440
July 21	0935	*a79
Aug. 18	0935	*a234
Sept. 15	1815	*a43
RED 25 (07336860) Red River near Foreman		
Oct. 21	1515	*5,870
Nov. 04	1515	*4,190
Dec. 16	1415	*9,630
Jan. 06	1500	*1,860
Feb. 03	1430	*2,540
Mar. 03	1500	*6,320
Apr. 21	0615	*1,900
May 26	0705	*5,540
June 23	0810	*15,200

See footnotes at end of table, p. 32.



Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
RED 25 (07336860) Red River near Foreman--Continued		
July 21	0815	*4,740
Aug. 18	0811	*2,340
Sept. 15	0830	*1,660
RED 27 (07349440) Bodcau Creek near Lewisville		
Jan. 06	0830	220
Feb. 03	0830	17
Mar. 03	0830	185
FRA 5A (07047400) Pemiscot Bayou near Dell		
Oct. 14	1730	0.40
Nov. 11	1650	2
Dec. 16	1555	9
Jan. 27	0840	5.3
Feb. 24	0840	6.3
Mar. 25	0840	6.5
Apr. 14	0815	7.8
May 19	0915	14
June 16	0830	28
July 14	0910	19
Aug. 11	0845	20
Sept. 08	0900	20
OUA 2 (07365800) Cornie Bayou near Three Creeks		
Oct. 14	1440	28
Nov. 18	1352	28
Dec. 16	1303	13
Jan. 27	1342	20
Feb. 24	1420	29
Mar. 24	1430	13
Apr. 21	1345	20
May 26	1425	414
June 23	1340	8.5
July 21	1335	3.6
Aug. 18	1440	2.1
Sept. 08	1350	4.8

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
OUA 5 (07364600) Bayou de Loutre near El Dorado		
Nov. 18	1448	120
Dec. 16	1400	13
Jan. 27	1250	33
Feb. 24	0840	52
Mar. 24	0815	52
Apr. 21	0815	18
May 26	0830	70
June 23	0815	10
July 21	0830	7.4
OUA 6 (07359500) Ouachita River near Malvern		
Oct. 15	0905	78
Oct. 29	0830	c95
Dec. 17	0810	*575
Jan. 28	0840	105
Feb. 18	0820	146
Mar. 18	0805	91
Apr. 21	1330	60
May 26	1330	499
June 23	1425	c3,420
July 28	1350	54
Aug. 18	1330	67
Sept. 22	1450	48
OUA 7A (07362400) Ouachita River at Lock and Dam 8, near Calion		
Oct. 14	1640	*2,300
Nov. 18	1530	*16,000
Jan. 27	1015	*2,300
Feb. 24	0920	*4,700
Mar. 24	0910	*3,100
Apr. 21	0845	*1,600
July 21	0930	*2,900
Aug. 18	0920	*3,800
Sept. 08	0800	*1,500

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981--Continued

Date	Time (hour)	Discharge
<u>OUA 8 (07364080) Ouachita River near Felsenthal</u>		
Oct. 07	1310	*13,700
Nov. 04	1300	*2,860
Dec. 09	0945	*c5,220
Mar. 03	0800	*10,100
Mar. 17	0830	*12,700
Apr. 07	0830	*c13,600
May 12	0830	*6,130
Aug. 04	0815	*9,010
Sept. 08	0820	*1,830
Sept. 29	0830	*1,950
<u>OUA 10A (07364012) Saline River near Fountain Hill</u>		
Oct. 07	1430	*b658
Nov. 04	1415	*b370
Dec. 09	1130	*b992
Jan. 20	1030	*b442
Mar. 03	0920	*b2,070
Mar. 17	0945	*b2,520
Apr. 07	0930	*b3,850
May 12	0925	*b718
June 09	0900	*b16,800
July 07	1150	*b2,940
Aug. 04	1100	*b212
Sept. 08	0930	*b124
Sept. 29	0930	*b72
<u>OUA 13 (07364200) Bayou Bartholomew near Jones, La.</u>		
Oct. 07	1135	*c312
Nov. 04	1125	*c346
Dec. 09	1440	*903
Jan. 20	1325	*c175
Mar. 03	1215	*c995
Mar. 17	1240	*1,000
Apr. 07	1050	*c1,130
May 12	1040	*c101
June 09	1030	*c1,240
July 07	1000	*1,200

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981--Continued

Date	Time (hour)	Discharge
OUA 13 (07364200) Bayou Bartholomew near Jones, La.--Continued		
Aug. 04	1230	*49
Sept. 08	1130	*424
Sept. 29	1100	*144
OUA 21 (07356000) Ouachita River near Mount Ida		
Oct. 14	1000	58
Oct. 28	0850	304
Dec. 16	0900	516
Jan. 27	0915	99
Feb. 17	0920	596
Mar. 17	0900	321
Apr. 21	0930	1,210
May 26	0930	4,280
June 23	1010	363
July 28	1000	50
Aug. 18	0930	182
Sept. 22	0930	43
OUA 22 (07360200) Little Missouri River near Langly		
Oct. 14	1515	21
Oct. 28	1330	21
Dec. 16	1340	1,030
Jan. 27	1415	30
Feb. 17	1345	1,100
Mar. 17	1330	840
Apr. 21	1130	840
May 26	1050	430
June 23	1145	860
Aug. 18	1100	30
Sept. 22	1130	24
OUA 23 (07359770) Caddo River near Amity		
Oct. 14	1610	108
Oct. 28	1430	299
Dec. 16	1435	312

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981--Continued

Date	Time (hour)	Discharge
OUA 23 (07359770) Caddo River near Amity--Continued		
Jan. 27	1 50 5	124
Feb. 17	1 44 5	308
Mar. 17	1 42 0	201
Apr. 21	1 20 0	431
May 26	1 14 5	597
June 23	1 24 0	262
July 28	1 21 0	121
Aug. 18	1 20 0	1 56
Sept. 22	1 24 5	102
OUA 24 (07358501) Ouachita River at Carpenter Dam, near Hot Springs		
Oct. 14	1 70 0	0
Oct. 28	1 54 0	0
Dec. 16	1 53 0	0
Jan. 27	1 61 0	0
Feb. 17	1 54 5	0
Mar. 17	1 53 0	0
Apr. 21	1 41 5	5,250
May 26	1 41 5	0
June 23	1 50 5	5,930
July 28	1 43 0	0
Aug. 18	1 42 5	0
Sept. 22	1 53 0	3,390
OUA 25 (07357501) Ouachita River at Blakely Mountain Dam, near Hot Springs		
Oct. 14	0 91 5	0
Oct. 28	0 74 5	0
Dec. 16	0 75 0	b2,500
Jan. 27	0 80 0	0
Feb. 17	0 81 0	0
Mar. 17	0 75 0	7,500
Apr. 21	0 80 0	0
May 26	0 82 5	0
June 23	0 83 0	48
July 28	0 90 0	0
Aug. 18	0 81 5	0
Sept. 22	0 81 5	0

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981--Continued

Date	Time (hour)	Discharge
<u>OUA 26 (07363002) Saline River west of Benton</u>		
Oct. 14	09 54	27
Nov. 18	0930	2,400
Dec. 16	081 5	348
Jan. 27	09 55	100
Feb. 24	1000	320
Mar. 24	092 5	860
Apr. 21	0950	190
May 26	1010	2,720
June 23	093 5	165
July 28	0930	18
Aug. 04	093 5	23
Sept. 01	0955	23
Sept. 29	094 5	13
<u>OUA 27 (07362110) Smackover Creek north of Smackover</u>		
Oct. 14	1330	*a8
Nov. 18	122 5	*a192
Dec. 16	1457	*a51
Jan. 27	091 5	*a68
Feb. 24	0800	*a127
Mar. 24	111 5	*a97
Apr. 21	104 5	*a53
May 26	111 5	*a872
June 23	104 5	*a81
July 21	1118	*a30
Aug. 18	1140	*a42
Sept. 08	111 5	*a15
<u>OUA 28 (07362550) Moro Creek near Banks</u>		
Oct. 14	1736	18
Nov. 18	1638	45
Dec. 16	1630	470
Feb. 24	101 5	245
Mar. 24	1010	144
Apr. 21	094 5	33
May 26	101 5	1,900
June 23	0930	62

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
OUA 28 (07362550) Moro Creek near Banks--Continued		
July 21	1035	10
Aug. 18	1030	19
Sept. 08	1010	15
OUA 29 (07360162) Ouachita River near Sparkman		
Oct. 14	1135	*910
Nov. 18	1100	*13,200
Dec. 16	0950	*6,480
Jan. 27	1135	*1,390
Feb. 24	1145	*4,190
Mar. 24	1120	*3,160
Apr. 21	1128	*1,260
May 26	1145	*6,730
June 23	1112	*7,250
July 28	1115	*1,590
Aug. 04	1120	*3,900
Sept. 01	1130	*1,510
Sept. 29	1130	*842
OUA 30 (07359580) Ouachita River near Donaldson		
Oct. 15	0930	*448
Oct. 29	0910	*478
Dec. 17	0835	*998
Jan. 28	0915	*672
Mar. 18	0835	*1,980
Apr. 21	1300	*1,150
May 26	0825	*3,820
June 23	1345	*3,860
July 28	1310	*772
Sept. 22	1400	*576
OUA 31 (07363270) Hurricane Creek near Sardis		
Oct. 14	0950	c6
Nov. 18	0850	c76
Dec. 17	0840	c35
Jan. 27	0915	c9.5
Feb. 24	0920	c54
Mar. 24	0849	c38

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981--Continued

Date	Time (hour)	Discharge
<u>OUA 31 (07363270) Hurricane Creek near Sardis--Continued</u>		
Apr. 21	0900	c20
May 26	0925	470
June 23	0852	c20
July 28	0840	c9.5
Aug. 04	0845	9
Sept. 29	0900	c1.5
<u>OUA 32 (07367666) Big Bayou near Jerome</u>		
Nov. 04	0940	d810
<u>OUA 35 (07361600) Little Missouri River near Boughton</u>		
Oct. 21	1645	*501
Nov. 04	1615	*700
Dec. 16	1600	*938
Jan. 06	1615	*165
Feb. 03	1630	*2,520
Mar. 03	1700	*2,520
Apr. 21	0600	*165
May 26	0700	*1,500
June 23	0700	*2,640
July 21	0600	*85
Aug. 19	0545	*2,720
Sept. 16	0630	*55
<u>WHI 3 (07064000) Black River near Corning</u>		
Oct. 14	1105	338
Nov. 11	1040	369
Dec. 16	1015	531
Jan. 27	1115	448
Feb. 24	1125	823
Mar. 24	1330	581
Mar. 31	1000	536
May 05	1000	660
June 02	0945	2,140
June 30	1200	2,300

See footnotes at end of table, p. 32.



Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
WHI 3 (07064000) Black River near Corning--Continued		
July 28	1215	1,170
Aug. 25	1300	658
Sept. 22	1245	379
WHI 4 (07068850) Current River near Pocahontas		
Oct. 14	1200	*1,100
Nov. 11	1150	*1,140
Dec. 16	1055	*1,190
Jan. 27	1220	*1,090
Feb. 24	1255	*1,420
Mar. 24	1420	*1,210
Mar. 31	0915	*1,220
May 05	1045	*1,330
June 02	1030	*2,480
June 30	1245	*1,680
July 28	1300	*2,100
Aug. 25	1330	*1,320
Sept. 22	1330	*1,060
WHI 5B (07072100) Eleven Point River near Pocahontas		
Oct. 28	1345	*442
Nov. 11	1215	*380
Dec. 09	1430	*429
Jan. 13	1330	*360
Feb. 10	1130	*600
Mar. 10	1400	*453
Mar. 31	1100	*560
May 05	1145	*411
June 02	1145	*715
June 30	1030	*558
July 28	1115	*415
Aug. 25	1115	*383
Sept. 22	1130	*321

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981--Continued

Date	Time (hour)	Discharge
<u>WHI 9A (07050500) Kings River near Berryville</u>		
Oct. 21	1050	ac114
Nov. 18	1125	ac49
Dec. 09	1440	ac134
Feb. 17	1325	ac153
Mar. 03	1145	ac305
Mar. 17	1040	a168
Mar. 31	1205	ac380
May 05	1000	ac290
June 02	1045	a740
June 09	1110	ac480
June 30	1045	ac180
July 28	1124	ac77
Aug. 11	1140	ac280
Sept. 15	1035	ac60
<u>WHI 10B (07050000) White River at Beaver</u>		
Oct. 21	1205	*b240
Nov. 18	1300	*b1,730
Dec. 09	1400	*b20
Feb. 17	1410	*b20
Mar. 03	1320	*b20
Mar. 17	1130	*b20
Mar. 31	1235	*b20
May 05	1115	*b120
June 02	1155	*b120
June 30	1130	*b1,300
<u>WHI 21 (07069370) Spring River at Ravenden</u>		
Oct. 28	1430	430
Nov. 11	1345	354
Dec. 09	1545	603
Jan. 13	1500	340
Feb. 10	1100	839
Mar. 10	1500	676
Mar. 31	1230	576
May 05	1300	434
June 02	1300	811
June 30	1330	411

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
WHI 21 (07069370) Spring River at Ravenden--Continued		
July 28	1045	387
Aug. 25	1000	324
Sept. 22	1415	281
WHI 22 (07069266) Spring River near Hardy		
Oct. 28	1530	250
Nov. 11	1430	240
Dec. 09	1615	268
Jan. 13	1530	230
Feb. 10	1030	380
Mar. 10	1600	265
Mar. 31	1300	268
May 05	1345	285
June 02	1345	325
June 30	1415	285
July 28	1000	288
Aug. 25	0915	262
Sept. 22	1500	262
WHI 23 (07069295) South Fork of Spring River at Saddle		
Oct. 28	0945	13
Nov. 11	1535	8
Dec. 09	0945	26
Jan. 13	0950	6
Feb. 10	0930	23
Mar. 10	0930	90
Mar. 31	1345	134
May 05	1415	32
June 02	1430	85
July 01	0600	13
July 28	0930	14
Aug. 25	0830	11
Sept. 22	0830	7
WHI 24 (07074100) Strawberry River near Smithville		
Oct. 28	1300	*108
Nov. 11	1130	*95
Dec. 09	1400	*301

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
WHI 24 (07074100) Strawberry River near Smithville--Continued		
Jan. 13	1300	*98
Feb. 10	1345	*690
Mar. 10	1315	*341
Mar. 31	1200	*328
May 05	1230	*153
June 02	1230	*641
June 30	0945	*129
July 28	1400	*74
Aug. 25	1045	*72
Sept. 22	1100	*55
WHI 25 (07069000) Black River at Pocahontas		
Oct. 28	1400	1,600
Nov. 11	1215	1,400
Dec. 09	1500	1,700
Jan. 13	1400	1,500
Feb. 10	1230	2,000
Mar. 10	1430	2,700
Mar. 31	1045	1,800
May 05	1100	2,000
June 02	1050	4,500
June 30	1100	3,700
July 28	1135	2,900
Aug. 25	1145	2,300
Sept. 22	1130	1,400
WHI 26 (07077660) Bayou DeView near Gibson		
Nov. 11	1405	4.4
Dec. 16	1350	13
Jan. 27	1415	4.3
Feb. 24	1340	21
Mar. 24	1607	8.2
Apr. 14	0945	5.7
May 19	1025	5.7
June 16	0915	5.7
July 14	1420	0
Aug. 11	1410	2.1
Sept. 08	1430	5.3

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
WHI 27 (07077400) Cache River near Cash		
Oct. 14	1330	*a2
Nov. 11	1330	*a5
Dec. 16	1410	*c130
Jan. 27	1330	*a14
Feb. 24	1510	*c530
Mar. 24	1530	*a23
Apr. 14	1010	*c17
May 19	1120	*c160
June 16	0940	*c330
July 14	1445	*c160
Aug. 11	1445	*c300
Sept. 08	1505	*ac220
WHI 31 (07077000) White River at DeValls Bluff		
Oct. 21	0910	7,570
Nov. 11	1430	5,720
Dec. 16	1435	10,200
Jan. 20	0900	9,200
Feb. 17	1435	17,100
Mar. 17	0900	9,720
Apr. 14	0930	7,130
May 19	0900	15,400
June 16	1515	24,000
July 14	0900	8,800
Aug. 11	0915	7,840
Sept. 08	1100	7,260
WHI 34 (07074850) White River at Augusta		
Oct. 28	0715	e6,160
Nov. 12	0700	e6,060
Dec. 10	0645	e8,630
Jan. 13	0715	e8,630
Feb. 10	1545	e7,760
Mar. 11	0630	e11,800
Apr. 07	1035	e8,400
May 12	1055	e6,060

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
WHI 34 (07074850) White River at Augusta--Continued		
June 09	1050	e16,500
July 07	1220	e10,500
Aug. 25	1050	e10,200
Sept. 22	0950	e5,660
WHI 37 (07077960) Big Creek near Watkins Corner		
Oct. 21	1420	b99
Nov. 11	0955	b91
Dec. 16	1015	b1,000
Jan. 20	1400	b53
Feb. 17	1000	b350
Mar. 17	1400	b760
Apr. 14	1415	b960
May 19	1420	b1,400
June 16	1030	b3,300
July 14	1345	b190
Aug. 11	1430	b250
Sept. 08	1300	b550
WHI 41 (07076200) Little Red River near Wilburn		
Oct. 14	1420	a20
Nov. 11	1430	a20
Dec. 16	1415	a20
Jan. 27	1500	a20
Feb. 17	1415	a20
Mar. 24	1415	a20
Apr. 07	0830	a20
May 12	0815	a20
June 09	0830	a20
July 07	0845	a20
Aug. 04	0845	a20
Sept. 01	0830	a20
Sept. 29	0850	a20
WHI 43 (07074990) Middle Fork Little Red River near Shirley		
Oct. 14	1305	3.6
Nov. 11	1320	41
Dec. 16	1300	134

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
WHI 43 (07074990) Middle Fork Little Red River near Shirley--Continued		
Jan. 27	1320	31
Feb. 17	1300	213
Mar. 24	1300	478
Apr. 07	0940	284
May 12	0925	905
June 09	0955	284
July 07	1030	287
Aug. 04	1000	10
Sept. 01	1010	30
Sept. 29	1015	0
WHI 45 (07060010) North Fork River at Norfork		
Oct. 14	1105	20
Nov. 11	1135	20
Dec. 16	1120	20
Jan. 27	1130	20
Feb. 17	1110	20
Mar. 24	1100	20
Mar. 31	1515	20
May 05	1830	20
June 02	1630	6,820
June 30	1645	20
July 28	1645	3,060
Aug. 25	1600	2,860
Sept. 22	1700	3,210
WHI 46 (07057370) White River near Norfork		
Oct. 14	1055	*a2,120
Nov. 11	1135	*a4,720
Dec. 16	1110	*a1,810
Jan. 27	1120	*a1,790
Feb. 17	1100	*a1,950
Mar. 24	1050	*a3,060
Mar. 31	1545	*a2,810
May 05	1815	*a1,110
June 02	1645	*a2,950
June 30	1700	*a4,630

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October  
1980 through September 1981--Continued

Date	Time (hour)	Discharge
WHI 46 (07057370) White River near Norfork--Continued		
July 28	1715	*a3,370
Aug. 25	1630	*a3,930
Sept. 22	1730	*a959
WHI 47 (07054501) White River at Bull Shoals Dam		
Oct. 14	1002	50
Nov. 11	1020	5,700
Dec. 16	1000	6,160
Jan. 27	1030	4,840
Feb. 17	1000	3,750
Mar. 24	1000	23,600
Mar. 31	1715	50
May 05	1630	2,060
June 02	1845	50
June 30	1745	8,430
July 28	1815	5,040
Aug. 25	1715	3,720
Sept. 22	1800	1,690
WHI 48A (07055608) Crooked Creek at Yellville		
Dec. 16	0945	0
Jan. 27	1000	0
Feb. 17	0715	35
Mar. 24	0930	40
Mar. 31	1645	60
May 05	1700	0
June 02	1800	110
June 30	1830	41
July 28	1900	0
Aug. 25	1800	130
Sept. 22	1900	30
WHI 49A (07056000) Buffalo River near St. Joe		
Oct. 14	0835	23
Nov. 11	0845	66
Dec. 16	0830	215
Jan. 27	0900	55

See footnotes at end of table, p. 32.



Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981--Continued

Date	Time (hour)	Discharge
<u>WHI 49A (07056000) Buffalo River near St. Joe--Continued</u>		
Feb. 17	0840	366
Mar. 24	0830	540
Apr. 07	1105	540
May 12	1100	3,350
June 09	1100	1,250
July 07	1145	261
Aug. 04	1120	2,320
Sept. 01	1135	326
Sept. 29	1130	68
<u>WHI 51 (07048550) West Fork White River east of Fayetteville</u>		
Oct. 21	0905	*a14
Nov. 18	0930	*a17
Dec. 09	1110	*a213
Feb. 17	1130	*a75
Mar. 03	1005	*a406
Mar. 17	0900	*a86
Mar. 31	0935	*a446
May 05	0830	*a86
June 02	0820	*a583
June 30	0900	*a456
July 28	0930	*a24
Aug. 11	1000	*a17
Sept. 15	0903	*a33
<u>WHI 52 (07048700) White River near Goshen</u>		
Oct. 21	0935	23
Nov. 18	1010	55
Dec. 09	1135	268
Feb. 17	1200	206
Mar. 03	1030	744
Mar. 17	0920	216
Mar. 31	1005	997
May 05	0855	219
June 02	0905	1,610

See footnotes at end of table, p. 32.

Table 1.--Discharge at monitoring stations, water year October 1980 through September 1981--Continued

Date	Time (hour)	Discharge
WHI 52 (07048700) White River near Goshen--Continued		
June 30	0915	160
July 28	1003	342
Aug. 11	1035	89
Sept. 15	0928	96

\* Daily mean discharge.

a Accuracy of measurement fair.

b Accuracy of measurement poor.

c Revised discharge from monthly request flow data.

d Possible backwater effect at all stages.

e Instantaneous discharge at 0700.

Table 2.--Discharge at monitoring stations, water year October 1979 through September 1980

[All discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily means. Abbreviations used: ARK, Arkansas; FRA, St. Francis; OUA, Ouachita, WHI, White]

Date	Time (hour)	Discharge
<hr/> FRA 6 (07046500) Right Hand Chute of Little River at Big Lake Outlet, near Manila <hr/>		
Oct. 02	1040	*940
Oct. 30	1259	*480
Nov. 20	1640	*600
<hr/> FRA 7 (07040100) St. Francis River at St. Francis <hr/>		
Oct. 02	1423	*330
Oct. 30	1600	*113
Nov. 20	1324	*438
<hr/> FRA 10 (07047964) L'Anguille River at Marianna <hr/>		
Oct. 02	1155	*b2,050
Oct. 30	1315	*b0
Nov. 27	1105	*b1,950

\* Daily mean discharge.

b Accuracy of measurement poor.

Table 3.--Discharge at monitoring stations, water year October 1978 through September 1979

[All discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily means. Abbreviations used: ARK, Arkansas; FRA, St. Francis; OUA, Ouachita; WHI, White]

Date	Time (hour)	Discharge
<u>FRA 6 (07046500) Right Hand Chute of Little River at Big Lake Outlet, near Manila</u>		
Oct. 16	1345	*260
Nov. 20	1345	*3,190
Dec. 11	1330	*24,100
Jan. 22	1245	*7,540
Feb. 12	1315	*1,750
Apr. 02	1300	*10,800
Apr. 30	1300	*12,200
June 19	1415	*1,940
July 10	1600	*1,640
July 24	1100	*1,140
Aug. 13	1655	*1,160
<u>FRA 7 (07040100) St. Francis River at St. Francis</u>		
Oct. 16	0915	*355
Nov. 20	0945	*746
Dec. 11	0915	*2,230
Jan. 22	0900	*3,180
Feb. 12	0915	*836
Mar. 05	0910	*11,200
Apr. 02	0850	*24,300
Apr. 30	0900	*9,870
June 19	0900	*348
July 10	0930	*2,100
Aug. 13	1515	*3,580
Sept. 17	1523	*168
<u>FRA 10 (07047964) L'Anguille River at Marianna</u>		
Oct. 09	1150	*b843
Nov. 06	1240	*0
Dec. 04	1135	*b1,440
Jan. 15	1120	*b1,130
Feb. 05	1145	*b2,230
Mar. 05	1150	*b7,650

\* Daily mean discharge.

b Accuracy of measurement poor.

Table 3.--Discharge at monitoring stations, water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
FRA 10 (07047964) L'Anguille River at Marianna--Continued		
Apr. 11	1240	*b5,140
May 01	1240	*b4,500
June 05	1235	*b3,500
July 10	1420	*b300
July 31	1155	*b749
Sept. 04	1330	*b1,770
WHI 1 (07078285) White River at Lock and Dam 1, near Nady		
Oct. 23	1035	*8,600
Nov. 20	1335	*18,000
Dec. 18	1055	*86,000
Jan. 23	1150	*45,000
Feb. 20	1110	*31,000
Mar. 20	1325	*106,000
Apr. 17	1115	*141,000
May 15	1155	*116,000
June 19	1050	*51,000
July 24	1310	*29,000
Aug. 07	1120	*31,000
Sept. 18	1320	*23,000
WHI 36 (07077820) White River at St. Charles		
Oct. 23	0900	*8,100
Nov. 20	1455	*15,400
Dec. 18	0940	*73,000
Jan. 23	1410	*40,300
Feb. 20	0940	*24,700
Mar. 20	1435	*85,100
Apr. 17	0925	*116,000
May 15	1400	*109,000
June 19	0930	*42,700
July 24	1500	*28,500
Aug. 07	1015	*29,000
Sept. 18	1435	*18,700

\* Daily mean discharge.

b Accuracy of measurement poor.

Table 4.--Discharge at monitoring stations, water year October 1977 through September 1978

[All discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily means. Abbreviations used: ARK, Arkansas; FRA, St. Francis; OUA, Ouachita; WHI, White]

Date	Time (hour)	Discharge
<u>FRA 7 (07040100) St. Francis River at St. Francis</u>		
Oct. 03	0855	*717
Oct. 31	0850	*294
Nov. 28	0900	*345
Jan. 03	0905	*3,090
Mar. 07	0900	*3,910
Mar. 21	0900	*6,600
Apr. 04	0850	*5,120
Apr. 24	0845	*688
May 22	0745	*430
June 19	0900	*155
July 18	0925	*399
Aug. 29	0905	*378
Sept. 18	0915	*226

\* Daily mean discharge.