

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DISCHARGE DATA AT WATER-QUALITY MONITORING STATIONS IN ARKANSAS,
1980 WATER YEAR

By R. K. Knott

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INTRODUCTION

This is a brief summary of the objectives, accomplishments, and work plans of the 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 sites are located at Geological Survey or U.S. Army Corps of Engineers daily-discharge stations, but most sites are at points where discharges are not regularly measured.

Discharges at the sites were obtained as follows:

1. For sites located at gaging stations, discharges were obtained from Geological Survey and Corps of Engineers annual publications.
2. For sites not too distant from gaging stations, discharges were estimated by using gaging-station records.

3. For other sites a series of discharge measurements was made at each site 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 82 of the sites. A summary of those discharges for the water year 1980 is given in table 1. Several discharges at six sites for miscellaneous dates in the 1979 water year are shown in table 2. Several discharges at four sites for miscellaneous dates in the 1978 year are shown in table 3. The letter-digit station numbers and names in tables 1, 2, and 3 were devised and assigned by the ADPC&E. The corresponding eight-digit numbers are assigned, standard downstream-order station numbers as used by the Geological Survey.

EXPLANATION OF FOOTNOTES AND TERMS USED

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

In some footnotes, the degree of accuracy of the data is given. If no footnote is given, the degree of accuracy is good. "Good" means that about 95 percent of the daily discharges are

within 10 percent and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

WORK PLANS

All sites 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 1979 through September 1980

[All discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily mean. 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>		
Sept. 16	1245	2.2
<u>ARK 3 (07191179) Spavinaw Creek north of Cherokee City</u>		
Oct. 23	1055	*13
Nov. 20	1025	*20
Dec. 18	1050	*21
Jan. 22	1115	*26
Feb. 20	1055	*c71
Mar. 18	1030	*78
Apr. 15	1040	*62
May 13	1055	*c40
June 17	1050	*26
July 15	1015	*12
Aug. 12	1135	*5
Sept. 16	1203	*5
<u>ARK 5 (07195860) Sager Creek near Siloam Springs</u>		
Apr. 15	0933	20
May 13	0945	14
<u>ARK 6 (07195430) Illinois River south of Siloam Springs</u>		
Oct. 23	0915	*139
Nov. 20	0850	*118
Dec. 18	0920	*107
Jan. 22	0900	*127
Feb. 20	0900	*192
Mar. 18	0910	*1,030
Apr. 15	0952	*236
May 13	0915	*193

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October
1979 through September 1980--Continued

Date	Time (hour)	Discharge
ARK 6 Illinois River south of Siloam Springs--Continued		
June 17	0920	*265
July 15	0900	*72
Aug. 12	1020	*54
Sept. 16	1025	*60
ARK 7 (07196900) Baron Fork at Dutch Mills		
Oct. 23	0835	1.8
Nov. 20	0810	10
Dec. 18	0840	5.3
Jan. 22	0815	8.8
Feb. 20	0815	9.3
Mar. 18	0830	43
Apr. 15	0750	11
May 13	0815	5.6
June 17	0835	5.3
July 15	0825	.5
Sept. 16	0950	0
ARK 15 (07249400) James Fork near Hackett		
Oct. 9	0725	.70
Nov. 20	0800	5.2
Dec. 4	0810	6.7
Jan. 8	1310	62
Feb. 5	1320	49
Mar. 4	1320	41
Apr. 1	1320	140
May 6	1410	145
June 3	1150	57
July 15	1100	1.8
July 29	1130	2.7
Aug. 26	1115	0
Sept. 23	0820	0

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
ARK 16 (07247012) Poteau River south of Bates		
Oct. 9	1530	59
Nov. 20	1540	18
Dec. 4	1140	19
Jan. 8	1115	92
Feb. 5	1110	78
Mar. 4	1105	47
Apr. 1	1130	930
May 6	1110	453
June 3	1030	70
July 15	1220	0.8
July 29	1010	0
Aug. 26	1030	0
Sept. 23	1530	0
ARK 18 (07261250) Cadron Creek West of Conway		
Oct. 2	0930	90
Oct. 30	1335	36
Nov. 27	0910	1,400
Jan. 15	0815	670
Feb. 12	0830	700
Mar. 11	1645	280
Apr. 15	1545	4,380
May 13	1430	1,300
June 10	1500	52
July 8	0845	0
Aug. 5	0820	0
Sept. 2	0835	0
Sept. 30	0830	620
ARK 20 (07265283) Arkansas River at Dam 2, near Gillett		
Oct. 16	1150	b7,100
Nov. 13	1235	b16,000
Dec. 11	1135	b28,400
Jan. 15	1310	b17,800
Feb. 20	1155	b23,000

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October
1979 through September 1980--Continued

Date	Time (hour)	Discharge
ARK 20 Arkansas River at Dam 2, near Gillett--Continued		
Mar. 11	0935	b10,700
Apr. 7	1155	b49,300
May 6	1300	b71,100
June 10	1150	b30,100
July 8	1350	b21,400
Aug. 5	1100	b1,800
Sept. 2	1240	b1,800
Sept. 30	1130	b8,860
ARK 21 (07264050) Bayou Two Prairie near Cabot		
Oct. 24	0900	11
Nov. 20	1700	8.5
Dec. 18	1615	39
Jan. 22	1500	160
Feb. 20	1600	50
Mar. 18	1710	530
Apr. 15	1830	655
May 20	1730	328
June 17	1730	3
July 16	0915	0
ARK 22 (07264000) Bayou Meto near Lonoke		
Oct. 16	0920	14
Nov. 13	0915	38
Dec. 12	0850	50
Jan. 16	0925	188
Feb. 21	0845	172
Mar. 12	0855	45
Apr. 7	0935	264
May 6	0900	175
June 11	0930	54
July 8	0905	2
Aug. 5	0805	1
Sept. 2	0915	4
Sept. 30	0900	66

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October
1979 through September 1980--Continued

Date	Time (hour)	Discharge
ARK 23 (07265099) Bayou Meto near Bayou Meto		
Nov. 13	1135	*47
Dec. 11	1300	*210
Jan. 15	1100	*940
Feb. 20	1320	*1,100
Mar. 11	0825	*230
Apr. 7	1355	*3,800
May 6	1120	*2,800
June 10	1330	*920
Sept. 30	1310	*220
ARK 24 (07263750) Arkansas River at Lock and Dam 3, near Swan Lake		
Oct. 16	1415	3,300
Nov. 13	1050	15,300
Dec. 11	1410	24,400
Jan. 15	1005	13,900
Feb. 20	1430	23,200
Mar. 11	0735	12,400
Apr. 7	1430	53,200
May 6	1025	66,900
June 10	1430	26,900
July 8	1135	23,200
Aug. 5	1355	0
Sept. 2	1030	850
Sept. 30	1420	11,000
ARK 29 (07263450) Arkansas River at Murray Dam at Little Rock		
Oct. 24	0900	5,010
Nov. 20	0800	7,130
Dec. 10	0802	20,500
Jan. 22	0815	17,000
Feb. 13	0930	*20,100
Mar. 26	0910	53,100
July 15	0725	16,500
Aug. 12	1830	5,470
Sept. 16	1735	5,540

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>ARK 30 (07261260) Arkansas River at Toad Suck Ferry Dam, near Conway</u>		
Oct. 2	1250	b6,400
Oct. 30	1220	b2,200
Nov. 27	1220	b62,000
Jan. 15	0845	b6,400
Feb. 12	1520	b13,400
Mar. 11	1620	b10,400
Apr. 15	1530	b52,800
May 13	1350	b24,400
June 10	1440	b22,400
July 8	1415	b13,400
Aug. 5	1500	b4,400
Sept. 2	1445	b2,200
Sept. 30	1415	b7,400
<u>ARK 31 (07260660) Arkansas River at Dam No. 9 near Oppelo</u>		
Oct. 2	1150	b7,100
Oct. 30	1120	b3,600
Jan. 15	0950	b7,100
Feb. 12	0910	b23,400
Mar. 11	1520	b10,700
Apr. 15	1430	b46,600
May 13	1245	b21,400
June 10	1330	b23,400
July 8	1300	b15,200
Aug. 5	1400	b5,400
Sept. 2	1300	b12,500
Sept. 30	1300	b5,400
<u>ARK 32 (07258000) Arkansas River at Dardanelle</u>		
Oct. 2	1030	50
Oct. 30	0950	57
Nov. 27	1000	61,800
Jan. 15	1115	27,300
Feb. 12	1020	16,800
Mar. 11	0750	8,260

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October
1979 through September 1980--Continued

Date	Time (hour)	Discharge
ARK 32 Arkansas River at Dardanelle--Continued		
Apr. 15	0830	42,400
May 13	0920	20,300
June 10	0915	37,600
July 8	0945	5,260
Aug. 5	0915	50
Sept. 2	0930	2,090
Sept. 30	0930	9,220
ARK 33 (07252406) Arkansas River at Ozark Dam at Ozark		
Oct. 9	1130	9,000
Nov. 20	1235	19,300
Dec. 4	1400	*32,300
Jan. 8	0840	17,800
Feb. 5	0840	19,200
Mar. 4	0840	18,700
Apr. 1	0915	*52,200
May 6	0845	*41,130
June 3	0750	28,500
July 15	1425	25,900
July 29	0830	80
Aug. 26	0830	9,420
Sept. 23	1300	30
ARK 34 (07258500) Petit Jean River near Booneville		
Oct. 9	1320	.12
Nov. 20	1340	1.0
Dec. 4	1320	2.2
Jan. 8	1000	92
Feb. 5	0950	53
Mar. 4	1000	37
Apr. 1	1020	285
May 6	0955	215
June 3	0910	38
July 15	1530	.19
July 29	0920	0

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October
1979 through September 1980--Continued

Date	Time (hour)	Discharge
ARK 35 (07260640) Petit Jean River near Centerville		
Oct. 2	1100	*19
Oct. 30	1020	*7
Nov. 27	1030	*12
Jan. 15	1135	*160
Feb. 12	1050	*1,660
Mar. 11	0825	*120
Apr. 15	0900	*5,010
May 13	1130	*768
June 10	1215	*92
July 8	1135	*22
Aug. 5	1305	*5
Sept. 2	1145	*5
Sept. 30	1130	*26
ARK 37 (07261500) Fourche LaFave River near Gravelly		
Oct. 9	1650	3.9
Jan. 15	1300	163
Feb. 12	1145	694
Mar. 11	0910	89.5
Apr. 15	1005	2,450
May 13	1030	329
June 10	1130	68
July 8	1045	3.3
Aug. 5	1200	.08
Sept. 2	1040	0
Sept. 30	1040	665
ARK 38 (07250500) Arkansas River at Van Buren		
Oct. 9	1035	7,690
Nov. 20	1145	22,800
Dec. 4	0945	31,900
Jan. 8	1530	23,600
Feb. 5	1710	18,100
Apr. 1	1610	44,400
May 6	1640	41,100
July 15	0730	14,500
July 29	1410	951
Aug. 26	1520	7,640
Sept. 23	1120	0

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October
1979 through September 1980--Continued

Date	Time (hour)	Discharge
ARK 39 (07246400) Arkansas River at Robert Kerr Dam 15 near Sallisaw, Okla.		
Oct. 9	0915	0
Nov. 20	1015	24,300
Dec. 4	1025	27,600
Feb. 5	1600	8,400
Mar. 4	1545	17,500
Apr. 1	1500	38,800
May 6	1555	36,800
June 3	1420	36,900
July 15	1015	0
July 29	1200	0
Aug. 26	1245	0
Sept. 23	1000	0
ARK 40 (07194800) Illinois River near Savoy		
Oct. 23	1305	11
Nov. 20	1220	10
Dec. 18	1300	8.2
Jan. 22	1310	13
Feb. 20	1250	28
Mar. 18	1235	166
Apr. 15	1330	31
May 13	1435	37
June 17	1435	19
July 15	1240	4.5
Aug. 12	0803	2.0
Sept. 16	1415	5.0
RED 2 (07340000) Little River near Horatio		
Oct. 16	1300	795
Nov. 13	1230	501
Dec. 11	1315	326
Jan. 15	1215	1,970
Feb. 12	1230	6,620
Mar. 11	1230	3,160

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October
1979 through September 1980--Continued

Date	Time (hour)	Discharge
RED 2 (07340000) Little River near Horatio--Continued		
Apr. 15	1215	10,600
May 6	1250	2,210
June 10	1245	5,140
Aug. 5	1220	393
Aug. 26	1230	1,170
Sept. 2	1130	254
RED 4A (07344300) Days Creek southeast of Texarkana		
Oct. 9	1245	15
Nov. 6	1300	c13
Dec. 4	1330	c22
Jan. 8	1330	c12
Feb. 5	1315	c45
Mar. 4	1300	c34
Apr. 1	1245	662
May 13	1300	c602
June 3	1315	c28
July 8	1315	c115
Aug. 26	1300	c4
Sept. 23	1330	c6
RED 5 (07344275) Sulphur River south of Texarkana		
Oct. 9	1215	2,620
Nov. 6	1230	1,020
Dec. 4	1245	167
Jan. 8	1215	4,660
Feb. 5	1200	10,600
Mar. 4	1145	263
Apr. 1	1215	1,020
May 13	1230	183
June 3	1430	4,900
July 8	1230	519
Aug. 26	1245	96
Sept. 23	1245	87
RED 9 (07344350) Red River at Spring Bank		
Oct. 9	1115	*5,800
Nov. 6	1100	*4,700

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>RED 9 (07344350) Red River at Spring Bank--Continued</u>		
Dec. 4	1115	*4,000
Jan. 8	1130	*18,000
Feb. 5	1115	*23,000
Apr. 1	1100	*11,000
May 13	1115	*9,800
June 3	1130	*27,000
July 8	1145	*6,000
Aug. 26	1130	*3,700
Sept. 23	1145	*2,900
<u>RED 15A (07348650) Bayou Dorcheat near Taylor</u>		
Oct. 9	0930	*5
Nov. 6	0930	*31
Dec. 4	0930	*182
Jan. 8	0945	*518
Feb. 5	0945	*745
Mar. 4	0945	*254
Apr. 1	0915	*2,470
May 13	0900	*432
June 3	0900	*202
July 8	0945	*10
<u>RED 21 (07341200) Saline River near Lockesburg</u>		
Oct. 16	1140	6.9
Nov. 13	1325	21
Dec. 11	1415	18
Jan. 15	1340	124
Feb. 12	1400	1,170
Mar. 11	1350	76
Apr. 15	1315	644
May 6	1340	438
June 10	1420	70
Aug. 5	1355	22
Aug. 26	1330	20
Sept. 2	1230	21

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>RED 22 (07340520) Cossatot River near Lockesburg</u>		
Oct. 16	1200	*34
Nov. 13	1300	*102
Dec. 11	1400	*65
Jan. 15	1310	*290
Feb. 12	1328	*854
Mar. 11	1325	*87
Apr. 15	1335	*2,320
May 6	1315	*1,000
June 10	1320	*106
Aug. 5	1320	*31
Aug. 26	1300	*29
Sept. 2	1205	*33
<u>RED 25 (07336860) Red River near Foreman</u>		
Oct. 9	1445	*2,960
Nov. 6	1430	*1,650
Dec. 4	1500	*1,050
Jan. 8	1530	*1,800
Feb. 5	1500	*4,280
Mar. 4	1445	*4,020
Apr. 1	1445	*4,000
May 13	1515	*2,570
June 3	1500	*22,500
July 8	1515	*3,350
Aug. 26	1500	*3,480
Sept. 23	1515	*1,940
<u>RED 27 (07349440) Bodcaw Creek near Lewisville</u>		
Oct. 9	0800	31
Nov. 6	0800	80
Dec. 4	0800	110
Jan. 8	0830	334
Feb. 5	0830	508
Mar. 4	0830	268
Apr. 1	0800	1,230
May 13	0800	375
June 3	0815	128
July 8	0900	50
Aug. 26	2030	11

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October
1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>FRA 5A (07047400) Pemiscott Bayou near Dell</u>		
Oct. 30	1230	242
Nov. 20	1547	28
Jan. 29	1340	14
Mar. 25	1610	160
Apr. 22	1430	29
May 20	0700	28
June 24	0830	310
July 22	0810	10
Aug. 19	1755	10
<u>OUA 2 (07365800) Cornie Bayou near Three Creeks</u>		
Oct. 2	1450	0.24
Oct. 29	1430	5.5
Nov. 27	1200	291
Jan. 29	0800	407
Feb. 26	1309	68
Mar. 25	1300	475
Apr. 22	0758	378
June 3	1345	40
June 23	1626	29
July 22	0940	1.8
Aug. 19	1325	2.6
Sept. 16	1230	6
<u>OUA 5 (07364600) Bayou de Loutre near El Dorado</u>		
Oct. 2	1330	11
Oct. 29	1330	21
Nov. 27	1300	88
Jan. 29	0845	80
Feb. 26	1410	8
Mar. 25	1400	122
Apr. 22	0900	60
June 3	1445	21
June 23	1737	27
July 22	0820	14
Aug. 19	1443	14
Sept. 16	1325	16

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October
1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>OUA 6 (07359500) Ouachita River near Malvern</u>		
Dec. 18	1000	2,300
Jan. 16	0930	981
Feb. 13	0830	217
Mar. 12	0850	2,210
Apr. 16	0830	1,350
May 7	0820	143
June 11	0810	76
Aug. 6	0825	155
Aug. 27	0830	69
Sept. 3	0820	67
<u>OUA 7A (07362400) Ouachita River at Lock and Dam 8, near Calion</u>		
Oct. 2	1205	*2,900
Oct. 29	1545	*2,000
Nov. 27	1400	*11,000
Jan. 29	1030	*19,000
Feb. 26	1512	*5,000
Mar. 25	1521	*15,000
Apr. 22	1038	*18,000
June 3	1545	*8,800
June 24	0730	*1,700
July 22	1130	*1,400
Aug. 19	1550	*1,800
Sept. 16	1425	*1,000
<u>OUA 8 (07364080) Ouachita River near Felsenthal</u>		
Oct. 23	1325	*c3,180
Nov. 20	1515	*3,610
Dec. 10	1200	*c5,440
July 15	1530	*c2,900
Aug. 12	1445	*c926
Sept. 16	1305	*846
<u>Oua 10A (07364012) Saline River near Fountain Hill</u>		
Nov. 20	1600	*573
Dec. 10	1110	*890

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>OUA 10A Saline River near Fountain Hill--Continued</u>		
Jan. 22	1145	*4,640
Feb. 12	0945	*9,280
Mar. 25	0930	*19,100
July 15	1630	*90
Aug. 12	1600	*73
Aug. 26	1125	*52
Sept. 16	1405	*10
<u>OUA 13 (07364200) Bayou Bartholomew near Jones, La.</u>		
Oct. 23	1400	*c158
Nov. 20	1400	*c312
Dec. 10	1345	*c2,710
Jan. 22	1400	*c1,750
Feb. 12	1220	*c2,850
Mar. 25	1215	*c3,620
July 15	1330	*110
Aug. 12	1425	*69
Sept. 16	1120	*82
<u>OUA 21 (07356000) Ouachita River near Mount Ida</u>		
Oct. 16	0900	c37
Nov. 13	0905	c136
Dec. 11	0920	82
Jan. 15	0930	251
Feb. 12	0955	1,010
Mar. 11	0945	c126
Apr. 15	0930	c2,160
May 6	0930	c835
June 11	0945	c100
Aug. 5	1000	23
Aug. 26	0945	c6.6
Sept. 2	0920	c17
<u>OUA 22 (07360200) Little Missouri River near Langly</u>		
Oct. 16	1020	61
Nov. 13	1435	39

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>OUA 22 Little Missouri River near Langly--Continued</u>		
Dec. 11	1520	27
Jan. 15	1450	106
Feb. 12	1505	300
Apr. 15	1430	440
May 6	1450	580
June 10	1530	33.5
Aug. 5	1515	20
Aug. 26	1445	3
Sept. 2	1340	3
<u>OUA 23 (07359770) Caddo River near Amity</u>		
Oct. 16	1510	44
Nov. 13	1530	94
Dec. 11	1615	71
Jan. 15	1600	100
Mar. 11	1600	79
Apr. 15	1600	1,400
May 6	1540	340
June 10	1630	86
Aug. 5	1615	19
Aug. 26	1545	8
Sept. 2	1430	15
<u>OUA 24 (07358501) Ouachita River at Carpenter Dam, near Hot Springs</u>		
Oct. 16	1620	4,070
Nov. 13	1630	4,400
Dec. 12	0820	3,900
Jan. 15	1700	0
Feb. 12	1710	2,710
Mar. 11	1700	0
Apr. 15	1700	0
May 6	1700	3,050
June 10	1730	2,880
Aug. 5	1715	3,560
Aug. 26	1656	3,220
Sept. 2	1530	3,560

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October
1979 through September 1980--Continued

Date	Time (hour)	Discharge
OUA 25 (07357501) Ouachita River at Blakely Mountain Dam, near Hot Springs		
Oct. 16	1745	3,250
Nov. 13	0815	1,000
Dec. 11	0825	3,500
Jan. 15	0820	2,800
Feb. 12	0845	3,500
Mar. 11	0830	3,950
Apr. 15	0830	0
May 6	0825	0
June 10	0830	0
Aug. 5	0830	0
Aug. 26	0830	0
Sept. 2	0815	0
OUA 26 (07363002) Saline River west of Benton		
Oct. 2	1936	81
Oct. 29	0930	104
Nov. 27	0805	540
Jan. 29	1500	442
Feb. 26	0837	260
Mar. 25	0833	1,810
Apr. 22	1500	589
June 3	0851	205
June 24	1130	93
July 22	1620	25
Aug. 19	0830	31
Sept. 16	0835	17
OUA 27 (07362110) Smackover Creek north of Smackover		
Oct. 2	1610	15
Oct. 29	1220	c105
Nov. 27	1100	973
Jan. 29	0935	1,020
Feb. 26	1207	230
Mar. 25	1123	1,840
Apr. 22	0956	c926

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
OUA 27 Smackover Creek north of Smackover--Continued		
June 3	1230	132
June 24	0630	c70
July 22	1040	c6
Aug. 19	1150	cl.5
Sept. 16	1125	cl.9
OUA 28 (07362550) Moro Creek near Banks		
Oct. 2	1105	27
Oct. 29	1640	22
Nov. 27	1500	1,180
Jan. 29	1155	1,850
Feb. 26	1607	210
Mar. 25	1611	3,650
Apr. 22	1123	1,360
June 3	1638	210
June 23	2030	22
July 22	1315	0
OUA 29 (07360162) Ouachita River near Sparkman		
Oct. 2	1755	*2,760
Oct. 29	1110	*2,480
Nov. 27	0945	*4,280
Feb. 26	1014	*3,900
Mar. 25	1000	*13,000
Apr. 22	1325	*4,460
June 3	1030	*5,120
June 24	0950	*968
July 22	1545	*412
Aug. 19	1020	*719
Sept. 16	1000	*1,100
OUA 30 (07359580) Ouachita River near Donaldson		
Oct. 16	0900	*3,160
Dec. 12	0920	*2,180
Jan. 16	0905	*1,880
Feb. 13	0915	*3,280

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
OUA 30 Ouachita River near Donaldson--Continued		
Mar. 12	0925	*1,850
Apr. 15	0915	*7,220
May 7	0910	*1,900
June 11	0845	*521
Aug. 6	0900	*839
Aug. 27	0900	*552
Sept. 3	0900	*614
OUA 31 (07363270) Hurricane Creek near Sardis		
Oct. 2	1900	c20
Oct. 29	0855	c16
Nov. 27	1650	c68
Jan. 29	1430	c58
Feb. 26	1804	c23
Mar. 25	1809	215
Apr. 22	1540	c69
June 3	1830	24
June 24	1220	4
July 22	1657	0.5
Aug. 19	1843	c0.5
Sept. 16	1715	0.3
OUA 32 (07367666) Big Bayou near Jerome		
Oct. 23	1155	bd0
Nov. 20	1130	bd0
July 15	1115	bd0
Aug. 12	1040	bd23
Sept. 16	0920	bd18
OUA 35 (07361600) Little Missouri River near Boughton		
Oct. 9	1600	*73
Nov. 6	1630	*87
Dec. 4	1700	*164
Jan. 8	1715	*404
Feb. 5	1700	*938
Mar. 4	1700	*303
Apr. 1	1630	*1,800

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
OUA 35 Little Missouri River near Boughton--Continued		
May 13	1700	*1,060
June 3	1645	*550
July 8	1700	*101
Aug. 26	1700	*75
Sept. 23	1700	*43
WHI 3 (07064000) Black River near Corning		
Oct. 2	1523	520
Oct. 30	1656	502
Nov. 20	1226	844
Jan. 29	1015	857
Feb. 26	1000	2,750
Mar. 25	1100	2,680
Apr. 23	1200	1,600
May 20	1545	870
June 24	1600	416
July 23	1535	300
Aug. 19	1130	362
Sept. 16	1045	307
WHI 4 (07068850) Current River near Pocahontas		
Oct. 2	1615	*1,560
Oct. 30	1755	*1,460
Nov. 20	1143	*1,500
Jan. 29	0945	*1,800
Feb. 26	0930	*3,500
Mar. 25	1130	*4,160
Apr. 23	1045	*3,120
May 20	1505	*2,320
June 24	1500	*1,570
July 22	1415	*1,240
Aug. 19	1230	*1,200
Sept. 16	1225	*1,090
WHI 5B (07072100) Eleven Point River near Pocahontas		
Oct. 23	1430	*682
Nov. 20	1130	*642

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>WHI 5B Eleven Point River near Pocahontas--Continued</u>		
Dec. 18	1100	*729
Jan. 22	1200	*835
Feb. 20	1100	*1,300
Mar. 18	1050	*998
Apr. 15	1100	*1,390
May 20	1145	*925
June 17	1130	*774
July 15	1330	*603
Aug. 12	1310	*497
Sept. 16	1245	*447
<u>WHI 9A (07050500) Kings River near Berryville</u>		
Oct. 9	1030	10
Nov. 6	1030	98
Dec. 4	1020	165
Jan. 8	1015	c125
Feb. 5	1025	c60
Mar. 4	1020	c98
Apr. 1	1000	c1,180
May 6	1055	425
June 3	1000	468
July 8	1115	c16
July 29	0940	c2
Aug. 26	1020	35
Sept. 23	1445	4
<u>WHI 10B (07050000) White River at Beaver</u>		
Oct. 9	1135	*b130
Nov. 6	1115	*b20
Dec. 4	1105	*b260
Jan. 8	1100	*b960
Feb. 5	1120	*b1,880
Mar. 4	1115	*b1,150
Apr. 1	1050	*b20
May 6	1035	*b160
June 3	1100	*b220
July 8	1200	*b2,170
July 29	1045	*b3,210
Sept. 23	1345	*b230

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>WHI 21 (07069370) Spring River at Ravenden</u>		
Oct. 23	1530	510
Nov. 20	1100	561
Dec. 18	1030	828
Jan. 22	1130	917
Feb. 20	1030	1,550
Mar. 18	1030	1,320
Apr. 15	1030	2,060
May 20	1115	939
June 17	1115	592
July 15	1430	408
Aug. 12	1445	357
Sept. 16	1415	319
<u>WHI 22 (07069266) Spring River near Hardy</u>		
Oct. 23	1630	360
Nov. 20	1030	330
Dec. 18	1000	370
Jan. 22	1100	510
Feb. 20	0945	735
Mar. 18	0945	520
Apr. 15	0945	935
May 20	1030	500
June 17	1030	390
July 15	1515	260
Aug. 12	1515	235
Sept. 16	1500	200
<u>WHI 23 (07069295) South Fork of Spring River at Saddle</u>		
Oct. 23	0930	30
Nov. 20	0915	51
Dec. 18	0900	111
Jan. 22	0945	123
Feb. 20	0910	310
Mar. 18	0900	130
Apr. 15	0900	350
May 20	0900	132
June 17	0930	54
July 15	1600	10
Aug. 12	1615	8
Sept. 16	1545	12

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October
1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>WHI 24 (07074100) Strawberry River near Smithville</u>		
Oct. 23	1330	*187
Nov. 20	1245	*142
Dec. 18	1215	*319
Jan. 22	1300	*288
Feb. 20	1200	*496
Mar. 18	1245	*619
Apr. 15	1215	*1,220
May 20	1315	*226
June 17	1330	*129
July 15	1230	*80
Aug. 12	1210	*62
Sept. 16	1210	*62
<u>WHI 25 (07069000) Black River at Pocahontas</u>		
Oct. 23	1500	1,980
Nov. 20	1200	2,200
Dec. 18	1130	3,220
Jan. 22	1225	3,570
Feb. 20	1115	7,810
Mar. 18	1200	6,940
Apr. 15	1115	7,320
May 20	1230	3,150
June 17	1200	1,960
July 15	1345	1,450
Aug. 12	1400	1,510
Sept. 16	1310	1,380
<u>WHI 26 (07077660) Bayou DeView near Gibson</u>		
Jan. 29	1530	5
Feb. 26	1545	13
Mar. 25	1320	99
Apr. 22	0745	36
May 20	1300	6

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>WHI 27 (07077400) Cache River near Cash</u>		
Oct. 2	1910	*197
Oct. 30	1638	*c57
Nov. 20	1015	*28
Jan. 29	1545	*56
Feb. 26	1600	*525
Mar. 25	1305	*c992
Apr. 22	0820	*c461
May 20	1330	*75
June 24	1250	*c461
July 22	1135	*114
Aug. 19	1415	*227
<u>WHI 31 (07077000) White River at DeValls Bluff</u>		
Oct. 2	0910	17,700
Oct. 30	1540	14,500
Nov. 27	0920	12,000
Feb. 5	0945	15,500
Feb. 26	1505	17,900
Mar. 25	1445	30,200
Apr. 22	1420	31,400
May 20	0900	25,800
July 1	1430	17,700
July 22	1505	13,100
Aug. 19	0945	8,690
Sept. 16	1430	5,820
<u>WHI 34 (07074850) White River at Augusta</u>		
Oct. 24	0700	d19,200
Nov. 20	1515	d10,700
Dec. 18	1430	d11,400
Jan. 22	1515	d14,400
Feb. 20	1400	d17,100
Mar. 18	1515	d16,400
Apr. 15	1645	d25,000
May 20	1545	d20,300
June 17	1545	d11,500
July 16	0730	d13,800
Aug. 12	0715	d10,300
Sept. 16	0830	d7,100

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>WHI 37 (07077960) Big Creek near Watkins Corner</u>		
Oct. 2	1410	*880
Oct. 30	1020	*22
Nov. 27	1425	*4,600
Feb. 5	1420	*980
Feb. 26	0955	*410
Mar. 25	1045	*6,500
Apr. 22	1005	*4,200
May 20	1340	*690
July 1	1010	*700
July 22	0935	*630
Aug. 19	1425	*85
Sept. 16	1010	*140
<u>WHI 41 (07076200) Little Red River near Wilburn</u>		
Oct. 16	1515	2,910
Nov. 13	1445	20
Dec. 4	1445	20
Feb. 5	1430	4,270
Feb. 26	1445	4,550
Mar. 25	1430	20
May 6	1430	20
May 20	1425	165
June 24	1500	20
July 22	1450	20
Aug. 19	1430	20
Sept. 16	1450	20
<u>WHI 43 (07074990) Middle Fork Little Red River near Shirley</u>		
Oct. 16	1345	3.6
Nov. 13	1330	127
Dec. 4	1315	92
Feb. 5	1330	115
Feb. 26	1315	208
Mar. 25	1300	1,060
May 6	1315	125
May 20	1310	460
June 24	1350	616
July 22	1340	41
Aug. 19	1315	0
Sept. 16	1255	0

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October
1979 through September 1980--Continued

Date	Time (hour)	Discharge
WHI 45 (07060010) North Fork River at Norfork		
Oct. 16	1155	2,680
Nov. 13	1140	20
Dec. 4	1115	20
Feb. 5	1120	6,320
Feb. 26	1120	6,270
Mar. 25	1100	20
May 6	1105	20
May 20	1105	5,970
June 24	1100	3,070
July 22	1110	20
Aug. 19	1050	3,110
Sept. 16	1055	20
WHI 46 (07057370) White River near Norfork		
Oct. 16	1145	*a5,970
Nov. 13	1130	*a11,600
Dec. 4	1105	*a8,640
Feb. 5	1110	*a4,060
Feb. 26	1110	*a3,630
Mar. 25	1045	*a5,520
May 6	1050	*a4,140
May 20	1050	*a9,070
June 24	1045	*a6,440
July 22	1055	*a1,810
Aug. 19	1035	*a3,540
Sept. 16	1045	*a2,100
WHI 47 (07054501) White River at Bull Shoals Dam		
Oct. 16	1045	13,400
Nov. 13	1030	20,600
Dec. 4	1020	4,580
Feb. 5	1000	1,690
Feb. 26	1000	15,000
Mar. 25	0945	8,520
May 6	1000	6,550
May 20	0950	5,300
June 24	1000	50
July 22	1000	50
Aug. 19	0945	2,090
Sept. 16	0950	3,070

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
<u>WHI 48A (07055608) Crooked Creek at Yellville</u>		
Oct. 16	1005	0
Nov. 13	0945	112
Dec. 4	0940	48
Feb. 5	0915	45
Feb. 26	0930	65
Mar. 25	0900	350
May 6	0920	120
June 24	0910	131
July 22	0925	30
<u>WHI 49 (07056000) Buffalo River near St. Joe</u>		
Oct. 16	0900	40
Nov. 13	0840	294
Dec. 4	0830	173
Feb. 5	0800	c187
Feb. 26	0800	342
Mar. 25	0805	2,570
May 6	0830	c391
May 20	0815	c1,930
June 24	0815	c960
July 22	0830	c53
Aug. 19	0850	c23
Sept. 16	0830	c31
<u>WHI 51 (07048550) West Fork White River East of Fayetteville</u>		
Oct. 9	0820	.14
Nov. 6	0825	5.0
Dec. 4	0835	8.5
Jan. 8	0835	18.0
Feb. 5	0835	12
Mar. 4	0830	19
Apr. 1	0835	305
May 6	0750	58
June 3	0750	42
July 8	0905	2.0
July 29	0745	0
Aug. 26	0829	0
Sept. 23	0705	0

See footnotes at end of table, p. 31.

Table 1.--Discharge at monitoring stations, water year October 1979 through September 1980--Continued

Date	Time (hour)	Discharge
WHI 52 (07048700) White River near Goshen		
Oct. 9	0900	17
Nov. 6	0855	23
Dec. 4	0900	39
Jan. 8	0900	77
Feb. 5	0905	54
Mar. 4	0900	77
Apr. 1	0953	1,040
May 6	0825	234
June 3	0830	131
July 8	0930	20
July 29	0810	15
Aug. 26	0900	18
Sept. 23	0715	13

* 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.

Table 2.--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 mean. Abbreviations used: ARK, Arkansas; FRA, St. Francis; OUA, Ouachita, WHI, White]

Date	Time (hour)	Discharge
<u>FRA 4A (07029150) Mississippi River at Barfield</u>		
Oct. 16	1500	*176,000
Nov. 20	1500	*215,000
Dec. 11	1430	*643,000
Jan. 22	1445	*524,000
Feb. 12	1430	*326,000
Mar. 5	1510	*1,220,000
Apr. 2	1500	*1,150,000
Apr. 30	1430	*1,120,000
June 19	1600	*424,000
July 10	1815	*383,000
Aug. 13	1810	*447,000
<u>FRA 8 (07040450) St. Francis River at Lake City</u>		
Oct. 16	1250	*c442
Nov. 20	1250	*1,740
Dec. 11	130	*c13 700
<u>FRA 10 (07047964) L'Anguille River at Marianna</u>		
Oct. 9	1150	*b843
Nov. 6	1240	*b0
Dec. 4	1135	*b1,440
<u>OUA 29 (07360162) Ouachita River near Sparkman</u>		
Jan. 16	0755	*5,240
Feb. 21	0915	*6,620
June 13	1030	*9,600
July 24	0920	*1,010
Aug. 20	1555	*1,340
Sept. 11	1200	*3,420

* Daily mean discharge.

b Accuracy of measurement poor.

c Revised discharge from monthly request flow data.

Table 2.--Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
<u>OUA 30 (07359580) Ouachita River near Donaldson</u>		
Jan. 16	0900	*3,060
Feb. 21	1020	*3,960
Mar. 6	1215	*11,900
Apr. 10	1245	*10,200
May 8	1355	*8,620
June 13	1130	*6,500
July 23	1025	*448
Aug. 20	1700	*1,320
Sept. 11	1300	*2,440
<u>OUA 35 (07361600) Little Missouri River near Boughton</u>		
Oct. 2	1245	*97
Nov. 6	1615	*98
Dec. 4	1700	*2,670
Jan. 16	1530	*1,880
Feb. 13	1430	*2,840
Mar. 13	1450	*1,610
Apr. 9	1500	*11,500
May 7	1500	*5,810
June 11	1530	*1,260
July 9	1530	*138
Aug. 7	1530	*1,090
Sept. 10	1700	*113

* Daily mean discharge.

Table 3.--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 mean. 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>		
Jan. 3	1320	*740
Mar. 7	1400	*6,220
Mar. 21	1315	*9,570
Apr. 4	1320	*2,780
Apr. 24	1250	*1,940
May 22	1230	*1,490
June 19	1330	*1,100
July 18	1330	*1,860
Aug. 29	1400	*1,050
Sept. 18	1400	*980
<u>FRA 8 (07040450) St. Francis River at Lake City</u>		
Oct. 3	1245	*6,200
Oct. 31	1220	587
Nov. 28	1240	1,270
Jan. 3	1230	*3,350
Mar. 7	1300	*4,570
Mar. 21	1245	*10,200
Apr. 4	1220	*6,870
Apr. 24	1215	*2,730
May 22	1155	*1,270
June 19	1300	*601
July 18	1300	*2,430
Aug. 29	1330	*415
Sept. 18	1300	*501
<u>FRA 10 (07047964) L'Anguille River at Marianna</u>		
Jan. 23	1230	*b2,770
Feb. 21	1155	*b2,920
Mar. 20	1240	*b2,750
Mar. 21	1240	*b2,490
Apr. 17	1150	*b539
May 15	1125	*b4,770

* Daily mean discharge.

b Accuracy of measurement poor.

Table 3.--Discharge at monitoring stations, water year October 1977 through September 1978--Continued

Date	Time (hour)	Discharge
<u>FRA 10 L'Anguille River at Marianna--Continued</u>		
June 12	1235	*b1,400
July 11	0830	*b402
Aug. 14	1325	*b588
Sept. 11	1145	*b2,680
<u>OUA 35 (07361600) Little Missouri River near Boughton</u>		
Jan. 23	1500	*1,320
Feb. 21	1530	*1,010
Mar. 20	1515	*923
Apr. 10	1600	*282
May 15	1530	*1,240
June 12	1530	*202
July 17	1530	*78
Aug. 14	1500	*430
Sept. 11	1530	*55

* Daily mean discharge.

b Accuracy of measurement poor.