

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

DISCHARGE DATA AT WATER-QUALITY MONITORING STATIONS IN ARKANSAS.  
1979 WATER YEAR

Open-File Report 80-1213

Prepared in cooperation with the  
Arkansas Department of Pollution Control and Ecology



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Little Rock, Arkansas  
1980





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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 have been visited by Geological Survey personnel. Discharges on days of sampling have been determined for 80 of the sites. A summary of those discharges for the water year 1979 is given in table 1. Several discharges at six sites for miscellaneous dates in the 1978 water year are shown in table 2. The station numbers and names in tables 1 and 2 were devised and assigned by the ADPC&E.

### 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 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
ARK 3 Spavinaw Creek north of Cherokee City		
Oct. 17	1030	*19
Nov. 14	1030	*21
Dec. 12	1040	*28
Jan. 23	1025	*61
Feb. 13	1130	*32
Mar. 20	1040	*303
Apr. 24	1045	*80
May 22	1035	*55
June 26	1025	*24
July 31	1045	*40
Sept. 4	1020	*24
Sept. 25	1050	*14
ARK 4 Flint Creek north of Siloam Springs		
Oct. 17	1020	-----
Nov. 14	1005	-----
Dec. 12	1015	-----
Jan. 23	0950	-----
Mar. 20	1015	b47
Apr. 24	1010	-----
May 22	1010	-----
June 26	1005	-----
July 31	1015	-----
Sept. 4	0950	-----
Sept. 25	1020	-----
ARK 6 Illinois River south of Siloam Springs		
Oct. 17	0905	*a105
Nov. 14	0855	*a999
Dec. 12	0855	*a150
Jan. 23	0900	*a133

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
ARK 6 Illinois River south of Siloam Springs--Continued		
Feb. 13	0900	*a301
Mar. 20	0905	*a803
Apr. 24	0900	*a628
May 22	0850	*a474
June 26	0840	*a182
July 31	0900	*a642
Sept. 4	0835	*a118
Sept. 25	0910	*a105
ARK 7 Baron Fork at Dutch Mills		
Oct. 17	0825	0.6
Nov. 14	0815	1.9
Dec. 12	0815	3.4
Jan. 23	0820	15
Feb. 13	0825	46
Mar. 20	0830	70
Apr. 24	0825	29
May 22	0810	92
June 26	0815	8.6
July 31	0815	8.6
Sept. 4	0750	1.0
Sept. 25	0825	.9
ARK 15 James Fork near Hackett		
Oct. 16	1520	0
Nov. 13	1330	11
Dec. 18	1220	15
Feb. 12	1315	283
Feb. 27	1315	896
Mar. 27	1320	532
Apr. 17	1320	166
May 22	1320	6,960
June 19	1320	51
July 23	1210	34
Aug. 20	1120	31
Sept. 24	0700	.9

See footnotes at end of table, p. 30.



Table 1.--Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
ARK 16 Poteau River south of Bates		
Oct. 16	1630	*a0
Nov. 13	1440	*a0
Dec. 18	1510	*a40
Feb. 12.	1520	*a673
Feb. 27	1530	*a1,870
Mar. 27	1530	*a671
Apr. 17	1540	*a319
May 22	1435	*a4,700
June 19	1450	*a104
July 23	1440	*a35
Aug. 20	1410	*a30
Sept. 24	1445	*a6.4
ARK 18 Cadron Creek west of Conway		
Oct. 17	0830	13
Nov. 14	0820	0
Dec. 11	0830	7,500
Jan. 30	0815	1,390
Feb. 27	0840	8,550
Mar. 27	0830	800
Apr. 17	0830	1,790
May 15	0815	4,800
June 19	0820	252
July 24	0700	0
Aug. 7	1215	171
Sept. 5	0800	1,750
ARK 20 Arkansas River at Dam 2, near Gillett		
Oct. 23	1115	b0
Nov. 20	1310	b12,400
Dec. 18	1135	b12,400
Jan. 23	1120	b40,500
Feb. 20	1145	b19,500
Mar. 20	1245	b56,100
Apr. 17	1155	b98,900
May 15	1125	b98,600
June 19	1125	b95,600

See footnotes at end of table, p. 30.



Table 1.--Discharge at monitoring stations, water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
ARK 20 Arkansas River at Dam 2, near Gillett--Continued		
July 24	1235	b28,400
Aug. 7	1155	b33,600
Sept. 18	1240	b5,300
ARK 21 Bayou Two Prairie near Cabot		
Oct. 3	0930	0
Oct. 31	0900	0
Nov. 28	0930	59
Jan. 23	1630	620
Feb. 21	0845	160
Mar. 20	1820	49
Apr. 25	0915	635
May 22	1800	175
June 27	0930	6
Aug. 2	1000	3
Aug. 28	0930	74
Sept. 26	0900	40
ARK 22 Bayou Meto near Lonoke		
Oct. 23	1310	9.3
Nov. 21	0900	908
Dec. 19	0900	986
Jan. 24	0905	725
Feb. 21	0910	c343
Mar. 21	0735	115
Apr 18	0900	c631
May 16	0900	1,080
May 22	1035	394
June 20	0910	c50
July 25	0955	8
Aug. 8	0920	65
Sept. 16	0910	40

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
ARK 23 Bayou Meto near Bayou Meto		
Oct. 23	1310	-----
Nov. 20	1120	*b900
Dec. 18	1325	*b4,100
Jan. 23	1030	*b1,600
Feb. 20	1330	-----
Mar. 20	1040	-----
Apr. 17	1340	-----
May 15	1020	*b4,700
June 19	1250	*b2,800
July 24	1100	-----
Aug. 7	1335	*b370
Sept. 18	1035	*b170
ARK 24 Arkansas River at Lock and Dam 3, near Swan Lake		
Oct. 23	1345	b0
Nov. 20	1025	b12,400
Dec. 18	1430	b6,400
Jan. 23	0955	b32,500
Feb. 20	1435	b19,300
Mar. 20	0955	b52,500
Apr. 17	1425	b79,400
May 15	0955	b90,900
June 19	1410	b81,700
July 24	1030	b32,500
Aug. 7	1430	b34,600
Sept. 18	0945	b6,400
ARK 29 Arkansas River at Murray Dam, at Little Rock		
Oct. 25	0900	0
Nov. 14	0930	1,600
Dec. 13	1030	17,600
Jan. 10	1035	7,330
Feb. 13	0845	25,300
Mar. 13	0800	59,100
Apr. 3	0800	169,000
May 16	1715	50,100
June 19	0800	74,700
July 3	0800	38,900
July 31	0800	34,900
Sept. 18	0845	6,160

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date		Time (hour)	Discharge
Ark 30 Arkansas River at Toad Suck Ferry Dam, near Conway			
Oct.	17	1500	b1,100
Nov.	14	1420	b2,200
Dec.	11	1445	b21,400
Jan.	30	1510	b11,400
Feb.	27	1450	b66,900
Mar.	27	1500	b56,200
Apr.	17	1420	b59,100
May	15	1400	b62,000
June	19	1630	b66,900
July	24	1205	b30,100
Aug.	7	1220	b31,800
Sept.	4	1520	b14,400
ARK 31 Arkansas River at Dam No. 9, near Oppelo			
Oct.	17	1315	b3,600
Nov.	14	1320	b1,800
Dec.	11	1345	b13,900
Jan.	30	1345	b8,900
Feb.	27	1350	*b59,000
Mar.	27	1340	b56,900
Apr.	17	1320	b53,500
Apr.	24	1105	b60,100
May	15	1300	b53,500
June	19	1505	b65,700
July	24	1105	b31,800
Aug.	7	1115	b33,000
Sept.	14	1420	b12,500
ARK 32 Arkansas River at Dardanelle			
Oct.	17	1120	78
Nov.	14	1110	50
Dec.	11	1145	24,700
Jan.	30	1130	15,600
Feb.	27	1140	*40,700
Mar.	27	1130	*62,200
Apr.	17	1130	*51,400
May	15	1110	44,100
June	19	1340	*55,000
July	24	0950	29,400
Aug.	7	0950	28,900
Sept.	4	1300	4,400

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
ARK 33 Arkansas River at Ozark Dam, at Ozark		
Oct. 17	1010	0
Nov. 14	1000	50
Dec. 11	1030	15,400
Jan. 30	1015	17,600
Feb. 27	1030	*35,500
Mar. 27	1015	*61,900
Apr. 17	1000	*57,600
May 15	1000	*31,000
June 19	1030	*51,600
July 24	0830	*31,700
Aug. 7	1115	*31,900
Sept. 4	1145	*8,830
Sept. 24	1125	130
ARK 34 Petit Jean River near Booneville		
Oct. 10	0900	0
Oct. 31	0900	0
Nov. 20	0910	31
Jan. 16	0910	49
Feb. 20	0845	150
Mar. 13	0915	152
Apr. 10	0900	412
May 7	0900	396
June 11	0850	255
July 9	0855	47
Aug. 6	0915	58
Sept. 24	1240	0.5
ARK 35 Petit Jean River near Centerville		
Oct. 17	1145	a10
Nov. 14	1135	a39
Dec. 11	1205	a429
Jan. 30	1220	a767
Feb. 27	1200	a5,650
Mar. 27	1150	a2,600
Apr. 17	1145	a2,400
May 15	1135	a2,210
June 19	1410	a2,590
July 24	1015	a1,640
Aug. 7	1015	a1,690
Sept. 4	1330	a112

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
ARK 37 Fourche LaFave River near Gravelly		
Oct. 16	1810	0
Nov. 13	1620	0
Dec. 18	1640	156
Feb. 12	1630	2,670
Feb. 27	1650	3,730
Mar. 27	1640	770
Apr. 17	1620	-----
May 22	1620	12,100
June 19	1610	124
July 23	1620	40
Aug. 20	1610	46
Sept. 24	1620	25
ARK 38 Arkansas River at Van Buren		
Oct. 16	1330	3,300
Nov. 13	1100	3,740
Dec. 18	1640	75
Feb. 12	0820	*7,290
Feb. 27	1120	19,200
Mar. 27	1040	60,100
Apr. 17	1120	54,800
May 22	1140	50,000
June 19	1040	*48,600
July 23	1040	35,200
Aug. 20	0925	*11,500
Sept. 24	1020	*9,310
ARK 39 Arkansas River at Robert Kerr Dam 15 near Sallisaw, Okla.		
Oct. 16	1230	0
Nov. 13	0930	0
Dec. 18	0930	0
Feb. 12	1015	0
Feb. 27	0850	16,900
Mar. 27	0945	45,300
Apr. 17	1000	49,900
May 22	0930	38,000
June 19	0930	42,400
July 23	0925	43,900
Aug. 20	0830	0
Sept. 24	1015	0

See footnotes at end of table, p. 30.



Table 1.--Discharge at monitoring stations, water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
ARK 40 Illinois River at Savoy		
Oct. 17	1245	4
Nov. 14	1210	-----
Dec. 12	1245	82
Feb. 13	1315	-----
Mar. 20	1230	320
Apr. 24	1230	117
May 22	1240	196
June 26	1240	17
July 31	1250	47
Sept. 4	1305	10
Sept. 25	1250	17
ARK 41 Osage Creek near Elm Springs		
Oct. 3	1350	144
Oct. 31	1340	28
Nov. 28	1320	87
Jan. 9	1415	37
Feb. 5	1335	53
Mar. 5	1320	155
Apr. 10	1330	165
May 8	1340	184
June 12	1335	328
July 17	1315	47
Aug. 14	1305	53
Sept. 10	1310	27
RED 2 Little River near Horatio		
Oct. 23	1130	205
Nov. 20	1205	3,120
Dec. 18	1315	750
Jan. 30	1400	4,890
Feb. 27	0945	15,100
Mar. 27	1010	10,600
Apr. 23	1015	11,200
May 22	1030	11,500
June 25	1045	532
July 23	1100	607
Sept. 10	1300	275

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
RED 4A Days Creek southeast of Texarkana		
Oct. 23	1440	10
Nov. 20	1425	86
Dec. 18	1315	c27
Jan. 30	1730	c74
Feb. 27	1215	c139
Mar. 27	1152	c59
Apr. 23	1330	3,600
May 22	1300	c107
June 25	1430	18
July 23	1400	10
Aug. 20	1300	16
Sept. 10	1400	10
RED 5 Sulphur River south of Texarkana		
Oct. 23	1410	*182
Nov. 20	1410	*1,680
Dec. 18	1600	*281
Jan. 30	1745	*6,720
Feb. 27	1145	*4,040
Mar. 27	1215	*3,920
Apr. 23	1245	*3,230
May 22	1400	*10,500
June 25	1345	*537
July 23	1330	*534
Aug. 20	1200	*1,040
Sept. 10	1330	*164
RED 9 Red River at Spring Bank		
Oct. 2	0905	*2,200
Nov. 6	1240	*4,700
Dec. 4	1340	*6,600
Jan. 16	1200	*18,000
Feb. 13	1050	16,000
Mar. 13	1145	*43,000
Apr. 9	1230	*66,000
May 7	1200	*49,000
June 11	1230	*65,000
July 9	1200	*6,900
Aug. 7	1230	*14,000
Sept. 10	1145	*4,500

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
RED 15A Bayou Dorcheat near Taylor		
Jan. 16	1305	*a220
Feb. 13	1205	*a1,200
Mar. 13	1300	*a480
Apr. 9.	1030	*a1,800
May 7	0930	*a4,030
June 11	0945	*a1,100
July 9	0945	*a16
Aug. 7	0945	*a1,280
Sept. 10	0945	*a4
RED 21 Saline River near Lockesburg		
Oct. 23	0940	*3.4
Nov. 20	1030	*763
Dec. 18	1150	*220
Jan. 30	1300	428
Feb. 27	0815	574
Mar. 27	0856	996
Apr. 23	0830	1,600
May 22	0830	1,250
June 25	0845	*607
July 23	0830	26
Sept. 10	1145	15
RED 22 Cossatot River near Lockesburg		
Oct. 23	1017	*a33
Nov. 20	1100	*a2,140
Dec. 18	1210	*a143
Jan. 30	1320	*a696
Feb. 27	0900	*a2,160
Mar. 27	0927	*a2,790
Apr. 23	0900	*a2,260
May 22	0915	*a4,420
June 25	0930	*a288
July 23	0930	*a218
Sept. 10	1210	*a28

See footnotes at end of table, p. 30.



Table 1.--Discharge at monitoring stations, water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
RED 25 Red River near Foreman		
Oct. 23	1225	*1,400
Nov. 20	1250	*8,540
Dec. 18	1450	*2,280
Jan. 30	1500	*5,520
Feb. 27	1035	*31,600
Mar. 27	1050	*23,700
Apr. 23	1100	*10,600
May 22	1115	* 7,030
June 25	1145	*13,000
July 23	1145	*4,170
Aug. 20	1000	*1,840
Sept. 10	1530	*2,760
RED 27 Bodcaw Creek near Lewisville		
Oct. 2	1110	5
Nov. 6	1100	650
Dec. 4	1525	2,150
Jan. 16	1400	5,750
Feb. 13	1245	267
Mar. 13	1330	-----
Apr. 9	0930	1,090
May 7	0845	2,150
June 11	0900	595
July 9	0900	40
Aug. 7	0845	92
Sept. 10	0830	6
FRA 4A Mississippi River at Barfield		
Oct. 16	1500	*176,000
Nov. 20	1500	*215,000

See footnotes at end of table, p. 30.

Table 1 -- Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
FRA 5A Pemiscot Bayou near Dell		
July 10	1630	12
Aug. 13	1715	256
Sept. 17	1737	370
OUA 5 Bayou de Loutre near El Dorado		
Oct. 9	1330	17
Nov. 6	1345	31
Dec. 11	1345	125
Jan. 15	1340	72
Feb. 20	1330	79
Mar. 06	0830	200
Apr. 10	0830	570
May 9	0805	87
June 13	0700	31
July 23	1830	24
Aug. 20	1300	27
Sept. 11	0750	21
OUA 6 Ouachita River near Malvern		
Oct. 9	1330	72
Nov. 6	1830	66
Dec. 12	1000	3,870
Jan. 16	0930	2,510
Feb. 21	1055	c3,520
Mar. 6	1300	c9,080
Apr. 10	1315	c8,090
May 8	1225	8,750
June 13	0700	5,280
July 24	1100	69
Aug. 20	1735	3,340
Sept. 11	0750	164
OUA 7A Ouachita River at Lock and Dam 8, near Calion		
Oct. 9	1200	*1,100
Nov. 6	1215	*1,300
Dec. 11	1225	*22,000
Jan. 15	1215	9,200
Feb. 20	1145	*9,500

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
OUA 7A Ouachita River at Lock and Dam 8, near Calion-- Continued		
Mar. 6	0945	*35,000
Apr. 10	1000	*41,000
May 8	0930	*61,000
June 13	0815	*15,000
July 23	1700	*1,800
Aug. 20	1200	*2,100
Sept. 11	0940	*4,800
OUA 8 Ouachita River near Felsenthal		
Oct. 24	1500	*1,210
Nov. 14	1130	*1,300
Dec. 12	1440	-----
Jan. 9	0910	-----
Feb. 12	1520	-----
Mar. 12	1415	-----
Apr. 2	1410	-----
May 15	1430	-----
June 18	1350	-----
July 2	1530	-----
July 31	1530	*10,000
Sept. 17	1150	*2,550
OUA 10A Saline River near Fountain Hill		
Oct. 24	1630	*a166
Nov. 14	1015	*a178
Dec. 12	1550	*a9,360
Jan. 9	0800	*a10,800
Feb. 12	1630	*a6,680
Mar. 12	1530	*a20,300
Apr. 2	1530	*a6,500
May 15	1430	*a15,100
June 18	1450	*a1,530
July 2	1630	*a654
July 31	1700	*a3,150
Sept. 17	1100	*a176

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
OUA 13 Bayou Bartholomew Near Jones, La.		
Oct. 24	1315	*61
Nov. 14	1300	*c60
Dec. 12	1300	*c966
Jan. 9	1150	*3,010
Feb. 12	1330	*4,490
Mar. 12	1215	*4,180
Apr. 2	1215	*c2,360
May 15	1230	*c4,840
June 18	1230	*3,560
July 2	1355	*2,180
Sept. 17	1320	*214
OUA 15A Boeuf River near Arkansas-Louisiana State line		
Oct. 24	1230	*26
Nov. 14	1330	*21
Dec. 12	1225	-----
Jan. 9	1215	-----
Feb. 12	1300	-----
Mar. 12	1145	-----
Apr. 2	1145	-----
May 15	1200	-----
June 18	1200	*97
July 2	1315	*162
July 31	1330	-----
Sept. 17	1400	*172
OUA 21 Ouachita River near Mount Ida		
Oct. 10	1015	c13
Oct. 31	1030	c26
Nov. 20	1100	c596
Jan. 16	1045	c276
Feb. 20	1115	c553
Mar. 13	1045	c494
Apr. 10	1040	c740
May 7	1035	1,070
June 11	1045	c860
July 9	1040	210
Aug. 6	1045	220
Sept. 10	0900	110

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
OUA 23 Caddo River near Amity		
Oct. 10	1540	30
Oct. 31	1610	33
Nov. 20	1620	520
Jan. 16	1520	-----
Feb. 20	1650	335
Mar. 13	1600	266
Apr. 10	1530	710
May 7	1530	800
June 11	1520	283
July 9	1530	87
Aug. 6	1430	150
Sept. 10	1530	66
OUA 24 Ouachita River at Carpenter Dam, near Hot Springs		
Oct. 10	1650	0
Oct. 31	1730	2,880
Nov. 20	1730	5,930
Jan. 16	1710	1,860
Feb. 20	1520	2,030
Mar. 13	1740	3,220
Apr. 10	1640	5,250
May 7	1650	9,490
June 11	1730	6,100
July 9	1650	3,220
Aug. 6	1320	9,490
Sept. 10	0820	0
OUA 25 Ouachita River at Blakely Mountain Dam, near Hot Springs		
Oct. 10	1210	15
Oct. 31	1220	20
Nov. 20	1250	20
Jan. 16	1215	2,350
Feb. 20	1245	20
Mar. 13	1210	5,500
Apr. 10	1215	6,000
May 7	1225	6,000
June 11	1220	3,000
July 9	1215	20
Aug. 6	1210	4,600
Sept. 10	1750	1,370

See footnotes at end of table, p. 30.



Table 1.--Discharge at monitoring stations, water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
OUA 26 Saline River west of Benton		
Oct. 10	1830	33
Nov. 7	0945	24
Dec. 12	1045	1,240
Jan. 16	1015	382
Feb. 21	1135	937
Mar. 6	1335	1,990
Apr. 10	1355	1,020
May 8	1340	1,220
June 13	1300	348
July 24	1215	104
Aug. 20	1815	60
Sept. 11	1425	71
OUA 27 Smackover Creek north of Smackover		
Oct. 9	1245	*ac2.4
Nov. 6	1455	*a2.5
Dec. 11	1300	*a298
Jan. 15	0900	*ac215
Feb. 20	1240	*a402
Mar. 6	0915	*a1 460
Apr. 10	0915	*a2,690
May 8	0850	*a2,270
June 13	0740	*ac170
July 23	1745	*ac18
Aug. 20	1430	*ac24
Sept 11	0850	*a14
OUA 28 Moro Creek near Banks		
Oct. 9	1115	9
Nov. 6	1100	0
Dec. 11	1115	1,200
Jan. 15	1100	900
Feb. 20	1100	600
Mar. 6	1030	2,150
Apr. 10	1040	3,900
May 8	1008	4,900
June 13	0900	820
July 23	1555	15
Aug. 20	1100	9
Sept 11	1030	11

See footnotes at end of table, p 30.

Table 1.--Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
OUA 29 Ouachita River near Sparkman		
Oct. 9	1615	*1,020
Nov. 6	1625	*1,100
OUA 30 Ouachita River near Donaldson		
Oct. 9	1625	*731
Nov. 6	1735	*730
Dec. 12	0930	*5,020
OUA 31 Hurricane Creek near Sardis		
Oct. 9	0900	c34
Nov. 6	0905	29
Dec. 11	0900	c271
Jan. 15	0900	81
Feb. 21	0845	c205
Mar. 6	1450	c205
Apr. 10	1435	c160
May 8	1420	c137
June 13	1345	43
July 23	1400	c11
Aug. 20	0905	c11
Sept. 11	1500	9
OUA 32 Big Bayou near Jerome		
Oct. 24	1130	bd0
Nov. 14	1430	bd0
Dec. 12	1100	bd43
Feb. 12	1130	bd43
Mar. 12	1030	bd39
Apr. 2	1045	bd1,100
June 18	1045	bd0
July 2	1200	bd12
July 31	1150	bd33
Sept. 17	1515	bd0
OUA 33 Bayou Bartholomew near Ladd		
Oct. 24	0930	1
Nov. 14	0815	9
Mar 12	0845	305

See footnotes at end of table, p. 30.

Table 1.- Discharge at monitoring stations. water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
OUA 33 Bayou Bartholomew near Ladd--Continued		
Apr. 2	0900	488
May 15	0930	554
June 18	0900	24
July 2	1000	6
WHI 1 White River at Lock and Dam 1, near Nady		
Oct. 23	1035	*8,600
Nov. 20	1335	*18,000
Dec. 18	1055	*86,000
WHI 3 Black River near Corning		
Oct. 16	1010	431
Nov. 20	1030	1,880
Apr. 30	0945	5,120
June 19	1000	2,240
July 10	1030	1,710
Aug. 13	1335	1,220
WHI 4 Current River near Pocahontas		
Oct. 2	1430	*a1,200
Oct. 30	1510	*a1,100
Nov. 27	1340	*b7,800
Jan. 23	1145	*b6,100
Feb. 20	1530	*a2,000
Mar. 20	1200	*a4,700
Apr. 24	1400	*b12,000
May 22	1245	*a7,900
June 26	1415	*a3,000
Aug. 1	1500	*a8,900
Aug. 27	1400	*a 2000
Sept. 25	1430	*a1,400
WHI 5B Eleven Point River near Pocahontas		
Oct. 2	1300	*500
Oct. 30	1330	*476
Nov. 27	1230	*3,490
Jan. 23	1100	*1,460
Feb. 20	1600	*777
Mar. 20	1100	*2,040

See footnotes at end of table, p 30.



Table 1.--Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
WHI 5B Eleven Point River near Pocahontas--Continued		
Apr. 24	1300	*4,130
May 22	1130	*8,140
June 26	1315	*1,310
Aug. 1	1330	*1,110
Aug. 27	1300	*843
Sept. 25	1300	*727
WHI 9A Kings River near Berryville		
Oct. 3	1015	c64
Oct. 31	1020	c45
Nov. 28	1050	1,230
Jan. 10	1100	c425
Feb. 5	1050	c338
Mar. 5	1010	c2,250
Apr. 10	1045	c685
May 8	1035	c1,360
June 12	1035	c544
July 17	1025	c147
Aug. 14	1015	c129
Sept. 10	1015	c75
WHI 10B White River near Beaver		
Oct. 3	1105	*b2,100
Oct. 31	----	*b20
Nov. 28	1130	*b20
Jan. 9	1200	*b830
Feb. 5	1145	*b2,290
Mar. 5	1130	*b820
Apr. 10	1130	*b1,020
May 8	1130	*b3,770
June 12	1120	*b1,350
July 17	1120	*b190
Aug. 1	1330	*b730
Aug. 14	1100	*b3,290
Sept. 10	1100	*b4,850
WHI 21 Spring River at Ravenden		
Oct. 2	1530	416
Oct. 30	1600	400
Nov. 27	1430	7,560
Jan. 23	1015	1,860

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
WHI 21 Spring River at Ravenden--Continued		
Feb. 21	1630	1,000
Mar. 20	1030	3,840
Apr. 24	1500	8,360
May 22	0930	4,110
June 26	1515	1,000
July 23	0830	668
Aug. 1	1545	736
Aug. 27	1500	631
Sept. 25	1530	495
WHI 22 Spring River near Hardy		
Oct. 2	1600	-----
Oct. 30	1640	-----
Nov. 27	1500	700
Jan. 23	0945	360
Feb. 21	1700	570
Mar. 20	1000	-----
Apr. 24	1530	-----
May 22	1015	-----
June 26	1630	-----
Aug. 1	1615	200
Aug. 27	1540	-----
Sept. 25	1600	280
WHI 23 South Fork of Spring River, at Saddle		
Oct. 2	1700	-----
Oct. 30	1715	-----
Nov. 27	1545	1,220
Jan. 23	0915	260
Feb. 20	0500	76
Mar. 20	0910	-----
Apr. 24	0930	1,690
May 22	0930	670
June 26	1700	113
Aug. 1	0950	113
Aug. 27	0945	46
Sept. 25	0945	33

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
WHI 24 Strawberry River near Smithville		
Oct. 2	1230	*83
Oct. 30	1230	*83
Nov. 27	1145	*3,470
Jan. 23	1245	*987
Feb. 20	0950	*356
Mar. 20	1300	*4,240
Apr. 24	1215	*5,000
May 22	1330	*1,500
June 26	1230	*342
Aug. 1	1245	*137
Aug. 27	1230	*171
Sept. 25	1230	*107
WHI 25 Black River at Pocahontas		
Oct. 2	1400	1,600
Oct. 30	1445	1,500
Nov. 27	1315	8,500
Jan. 23	1130	-----
Feb. 20	1515	4,200
Mar. 20	1230	9 000
Apr. 24	1330	16,000
May 22	1215	15 000
June 26	1345	5,300
Aug. 1	1345	9,200
Aug. 27	1330	3,000
Sept. 25	1345	2 300
WHI 26 Bayou DeView near Gibson		
Oct. 16	1205	4
Nov. 20	1220	174
Dec. 11	1145	678
Jan. 22	1110	219
Feb. 12	1130	78
Mar. 6	1135	348
Apr. 30	1130	270
June 19	1215	9
July 10	1300	-----
Aug. 13	1030	-----

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
WHI 27 Cache River near Cash		
Oct. 16	1145	*a10
Nov. 20	1200	*a2,030
Dec. 11	1130	*a4,800
Jan. 22	1100	*a2,900
Feb. 12.	1105	*ac450
Mar. 6	1115	*a4,710
Apr. 2	1115	*a5,800
Apr. 30	1110	*a3 750
June 19	1140	*ac150
July 10	1230	*a310
Aug. 13	1055	*a286
WHI 31 White River at DeValls Bluff		
Oct. 9	1425	7,460
Nov. 6	0920	9,660
Dec. 4	1425	29,100
Jan. 15	0840	28,600
Feb. 5	1445	34,600
Mar. 5	0920	61,000
Apr. 11	1440	104,000
May 1	1445	66,200
June 5	0840	58,000
July 10	1610	30,600
July 31	0935	31,500
Sept. 4	1515	32,200
WHI 34 White River near Augusta		
Oct. 2	0730	*8,000
Oct. 31	0700	*9,300
Nov. 28	0730	*18,000
Jan. 23	1500	*24,200
Feb. 21	0700	*14,500
Apr. 25	0715	*59,000
May 22	1600	*61,000
June 27	0730	*25,000
Aug. 2	0800	*23,600
Aug. 28	0715	*24,200
Sept. 26	0715	*13,800

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October  
1978 through September 1979--Continued

Date	Time (hour)	Discharge
WHI 37 Big Creek near Watkins Corner		
Oct. 9	0925	*b11
Nov. 6	1445	*b3
Dec. 4	0920	*b1,900
Jan. 15	1430	*b1,000
Feb. 15	0915	*b1,400
Mar. 5	1440	*b5,200
Apr. 11	1015	*b3,100
May 1	1010	*b3,100
June 5	1545	*b4,800
July 10	1025	*b680
July 31	1415	*b300
Sept. 4	1010	*b920
WHI 41 Little Red River near Wilburn		
Oct. 9	1500	a20
Oct. 30	1500	a20
Nov. 27	1450	a20
Jan. 16	1515	a7,900
Feb. 13	1520	a6,930
Mar. 13	1515	a6,940
Apr. 3	1400	a20
May 1	1445	a7,260
June 5	1500	a20
July 30	1420	a7,430
July 31	1420	*a2,960
Aug. 21	1500	a6,260
Sept. 24	1500	a2,920
WHI 43 Middle Fork Little Red River near Shirley		
Oct. 9	1340	25
Oct. 30	1345	99
Nov. 27	1330	2,240
Jan. 16	1400	187
Feb. 13	1400	472
Mar. 13	1410	442
Apr. 3	1255	2,260
May 1	1330	515
June 5	1330	1 090
July 30	1300	260
Aug. 21	1325	6.4
Sept. 24	1330	27

See footnotes at end of table, p. 30.



Table 1. -- Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
WHI 45 North Fork River at Norfork		
Oct. 9	1150	3,140
Oct. 30	1245	20
Nov. 27	1200	3,110
Jan. 16	1155	3,170
Feb. 13	1200	3,140
Mar. 13	1200	3,050
Apr. 3	1055	1,470
May 1	1130	6 900
June 5	1120	3,180
July 30	1110	2,160
Aug. 21	1130	2,110
Sept. 24	1115	3,050
WHI 46 White River near Norfork		
Oct. 9	1140	*a4,330
Oct. 30	1130	*a3,940
Nov. 27	1145	*a2,000
Jan. 16	1135	*a9,360
Feb. 13	1145	*a2,440
Mar. 13	1145	*a9,960
Apr. 3	1045	*a20,500
May 1	1115	*a14 200
June 5	1105	*a7,990
July 30	1100	*a11,300
Aug. 21	1110	*a16,900
Sept. 24	1100	*a1,190
WHI 47 White River at Bull Shoals Dam, near Flippin		
Oct. 9	1040	2,030
Oct. 30	1040	6,380
Nov. 27	1040	6,200
Jan. 16	1105	4,580
Feb. 13	1045	4,850
Mar. 13	1050	1,620
Apr. 13	1050	5,880
May 1	1030	15,500
June 5	1030	50
July 30	1000	23 200
Aug. 21	1015	18,700
Sept. 24	0950	5 500

See footnotes at end of table, p. 30.

Table 1. --Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
WHI 48A Crooked Creek at Yellville		
Nov. 27	1000	850
Jan. 16	1115	178
Feb. 13	1010	178
Mar. 13.	1015	361
Apr. 3	0915	1,370
May 1	0945	279
June 5	0955	279
July 30	0920	82
Aug. 21	0940	30
Sept. 24	0915	17
WHI 49 Buffalo River near St. Joe		
Oct. 9	0845	c37
Oct. 30	0845	33
Nov. 27	0840	2,140
Jan. 16	0900	*c462
Feb. 13	0850	575
Mar. 13	0900	1 060
Apr. 3	0800	6,450
May 1	0930	990
June 5	0845	c2,500
July 30	0815	785
Aug. 21	0830	c181
Sept. 24	0805	85
WHI 51 West Fork White River east of Fayetteville		
Oct. 3	0820	*a1
Oct. 31	0830	*a0.4
Nov. 28	0830	*a27
Jan. 9	0840	*a79
Feb. 5	0835	*a42
Mar. 5	0830	*a442
Apr. 10	0830	*a120
May 8	0825	*a269
June 12	0840	*a68
July 17	0825	*a4
Aug. 14	0800	*a3
Sept. 10	0815	*a1

See footnotes at end of table, p. 30.

Table 1.--Discharge at monitoring stations, water year October 1978 through September 1979--Continued

Date	Time (hour)	Discharge
WHI 52 White River near Goshen		
Oct. 3	0850	2.7
Oct. 31	0855	1.8
Nov. 28	0915	315
Jan. 9	0920	*a242
Feb. 5	0905	*a185
Mar. 5	0915	1,980
Apr. 10	0915	520
May 8	0905	1,140
June 12	0915	*a332
July 7	0855	24
Aug. 14	0830	37
Sept. 10	0950	9.5

\* 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 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 4A Mississippi River at Barfield</u>		
Oct. 3	1500	*355,000
Oct. 31	1500	*443,000
Nov. 28	1500	*531,000
Jan. 3	1500	*424,000
Mar. 7	1600	*257,000
Mar. 21	1500	*958,000
Apr. 4	1540	*1,090,000
Apr. 24	1400	*561,000
May 22	1340	*819,000
June 19	1530	*238,000
July 18	1500	*370,000
Aug. 28	1600	*163,000
Sept. 18	1530	*145,000
<u>OUA 7A Ouachita River at Lock and Dam 8, near Calion</u>		
Oct. 24	1100	*1,600
Oct. 25	1100	-----
Nov. 30	1100	*2,600
Dec. 19	1115	*2,600
Jan. 23	1100	*14,000
Feb. 21	1030	*5,800
Mar. 20	1055	*11,000
Apr. 17	1255	*3,300
May 15	1300	*20,000
June 12	1235	*3,600
July 17	1330	*1,900
Aug. 14	1200	*760
Sept. 11	1245	*1,200
<u>OUA 29 Ouachita River near Sparkman</u>		
Oct. 24	1530	*708
Oct. 25	1530	-----
Nov. 30	1330	*4,560
Dec. 20	0830	*2,140
Jan. 23	0815	*5,050
Jan. 24	0815	*5,300

\* Daily mean discharge.

Table 2.--Discharge at monitoring stations, water year October 1977 through September 1978--Continued

Date	Time (hour)	Discharge
OUA 29 Ouachita River near Sparkman--Continued		
Feb. 21	1415	*3,980
Mar. 20	1400	*5 640
Apr. 18	0850	*4,280
May 16.	0955	*4,680
June 12	1615	*1,430
July 18	0930	*1,580
Aug. 14	1545	*686
Sept. 12	1130	*909
OUA 30 Ouachita River near Donaldson		
Oct. 25	1000	*812
Nov. 30	1415	*3,800
Dec. 20	0930	*1,320
Jan. 24	0930	*3,590
Feb. 21	1630	*2,400
Mar. 20	1500	*4,020
Apr. 18	1000	*5,240
May 16	1055	*2 120
June 13	0720	*2,260
July 18	1030	*1 290
Aug. 14	1655	*704
Sept. 12	1230	*676
WHI 1 White River at Lock and Dam 1, near Nady		
Oct. 10	1035	*37,000
Nov. 7	1240	*15,000
Dec. 6	1200	*36,000
Jan. 9	1000	*26,000
Jan. 23	1435	*38,000
Feb. 7	1155	*44,000
Mar. 6	1030	*30,000
Apr. 3	1300	*52,000
Apr. 24	0845	*56,000
May 1	1050	*59,000
May 30	1310	*55,000

\* Daily mean discharge

Table 2.--Discharge at monitoring stations, water year October 1977 through September 1978--Continued

Date	Time (hour)	Discharge
<u>WHI 1 White River at Lock and Dam 1, near Nady--Continued</u>		
June 26	1100	*21,000
Jul. 17	1125	*14,000
Aug. 28	1240	*12,000
Sept. 25.	1310	*19,000
<u>WHI 36 White River at St. Charles</u>		
Oct. 10	0910	*30,400
Nov. 7	1415	*17,600
Dec. 6	1335	*33,000
Jan. 9	0855	*24,800
Feb. 7	1405	*33,100
Mar. 6	0910	*28,900
Apr. 3	1410	*51,800
May 1	0910	*53 400
May 30	1435	*48,300
June 26	0850	*15 200
July 17	1010	*13,100
Aug. 28	1050	*11,400
Sept. 25	1420	*18,400

\* Daily mean discharge.