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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

DISCHARGE DATA AT WATER-QUALITY MONITORING STATIONS IN ARKANSAS, 1977 WATER YEAR





Open-File Report No. 78-824

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

Little Rock, Arkansas

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DISCHARGE DATA AT WATER-QUALITY MONITORING STATIONS IN ARKANSAS,

1977 WATER YEAR

By R. K. Knott

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 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 Arkansas Department of Pollution Control and Ecology.

Each site was numbered and described by the Arkansas Department of Pollution Control and Ecology. Some of the sites are located at U.S. Geological Survey or U.S. Army Corps of Engineers daily-discharge stations, but most are at points where discharges are not regularly measured.

Discharges at the sites were obtained as follows:

- For sites located at gaging stations, discharges were obtained from Geological Survey and Corps of Engineers annual publications.
- 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 personnel of the Geological Survey. Discharges on days of sampling have been determined for about 90 of the sites. A summary of those discharges for the water year 1977 is given in table 1. Several discharges for miscellaneous dates in the 1974-76 water years are shown in table 2. The station numbers and names in tables 1 and 2 were devised and assigned by the Arkansas Department of Pollution Control and Ecology.

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 are being made on the stream.

In some footnotes the degree of accuracy of the data is given.

If none 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.

FUTURE 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 Arkansas Department of Pollution Control and Ecology.

Table 1. -- Discharge at monitoring stations

[All discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily mean. Abbreviations used: Ark., Arkansas; Whi., White; Oua., Ouachita; Fra., St. Francis]

Water year October 1976 to September 1977 Discharge Date Discharge Discharge Date Ark.-4 Flint Creek north Ark.-9A Lee Creek near Ark.-1 Little Sugar Creek at Caverna, Mo. of Siloam Springs, Ark. Van Buren, Ark. ag a74 145 Oct. 19 Oct. 5 Nov. 2 a2.5 a4 23 9 30 46 Nov. Nov. Nov. a2.5 a20 15 15 5 668 Feb. Dec. Apr. a2.5 76 3 80 Mar. 16 Jan. 4 May ag a2.5 1 May 31 May 17 Feb. 14.6 a5 94 19 2 July 5 37.0 July Mar. a2.5 2 Aug. 74.0 Apr. Ark.-2 Butler Creek Ark.-15 James Fork near Sulphur Springs, Ark.-6 Illinois River south of Siloam near Hackett, Ark. Ark. Springs, Ark. a24 54.7 Oct. Oct. 5 a * 140 a18 2 5 Nov. 9 Oct. Nov. 38.1 a 18 a*100 15 9 Nov. 30 9.5 Dec. Nov. a *120 a18 21.0 Jan. 4 Jan. 4 Dec. 15 a18 a *96 5 179 1 Apr. Feb. Jan. 4 a 18 a 2 a 1 a*610 2 May 3 30.0 Mar. Apr. a *160 12.3 3 3 May 31 May May a *100 5 2.3 May 31 May 3.7 July a *120 1.2 July 5 July 5 Aug. a *100 2 2 Aug. Aug. a *76 Ark.-16 Poteau River Sept. south of Bates, Ark. Ark.-3A Spavinaw Creek near Sycamore, Okla. Ark.-7 Baron Fork at a*27 5 Oct. Dutch Mills, Ark. a*50 Nov. 24 Nov. 2 a*22 5 Dec. 22 Nov. 30 Oct. 12.2 a*13 Dec. 15 26 7 7.9 Jan. Nov. Jan. a * 130 21 1 Dec. 15 4.3 Feb. a * 379 Feb. 1 25 2.3 Apr. Jan. 4 a * 33 Mar. 2 24 2 May 3 Mar. 13 a* 7.9 Apr. 5 88 31 43 May Apr. a*1.5 May 3 27 May 3 7.5 July 5 a*11 May 31 19 May 31 1.1 Aug. July 5 38 5 . 5 July

18

30

*Daily mean discharge.

Aug.

Sept.

3.0

3.7

2

6

Aug

Sept.

Accuracy of measurement fair.

Table 1.--Discharge at monitoring stations--Continued

	Water year October 1976 to September 1977						
Date	Discharge	Date	Discharge	Date	Discharge		
111 111	Cadron Creek Conway, Ark.		ayou Meto oke, Ark.	at Murr	Arkansas River ay Dam at Rock, Ark.		
Oct. 6 Nov. 3 Dec. 7 Jan. 5 Feb. 2 Mar. 7 Apr. 6 May 4 June 6 July 12 Aug. 9 Sept. 13	73 238 305 176 815 4,900 3,000 1,240 0 73 0 34	Oct. 5 Nov. 2 Dec. 1 Jan. 19 Feb. 8 Mar. 14 Apr. 11 May 9 June 14 July 12 Aug. 8 Sept. 13	6.6 137 39 *500 122 884 389 289 3.8 16 12	Oct. 13 Nov. 10 Dec. 9 Feb. 1 Mar. 1 Apr. 5 May 4 June 1 June 7 July 7 Aug. 4 Sept. 1	13,100 7,160 15,900 13,100 12,900 49,500 10,000 50,600 55,500 78,900 6,200 30,800		
at Dam N Arkansas Oct. 4 Nov. 1 Nov. 30 Mar. 14 Apr. 11 May 9 June 14 July 12 Aug. 8 Sept. 12	arkansas River lo. 2 near Post, Ark. a5,700 a3,800 a9,000 a35,900 a34,100 a9,030 a19,500 a74,800 a18,100 a32,500 ayou Two South of	Oct. 4 Nov. 1 Nov. 30 Feb. 7 Mar. 14 Apr. 11 May 9 June 14 July 12 Aug. 8 Sept. 12	b*10 b*842 b*39 b*500 b*2,400 b*2,040 b*676 b*0 b*952 b*97 b*54	Ark30 A	Arkansas River Suck Ferry Da hway, Ark. 66,600 613,300 67,700 69,700 613,300 629,100 631,800 616,400 662,000 662,000 611,400 631,000		
Cabot, A Oct. 19 Nov. 23 Dec. 29 Jan. 27 Feb. 23 Mar. 23 May 24 June 22 July 27 Aug. 24 Sept. 28			b4,900 b3,300 b12,400 b32,500 b36,600 b9,500 b28,000 b89,900 b16,600 b26,900	Ark31 at Lock	Arkansas River and Dam 9 pelo, Ark. ^b 7,100 b ₁₃ ,900 b ₈ ,900 b ₁₀ ,700 b ₁₂ ,500 b ₁₉ ,800 b ₂₃ ,400 b ₁₆ ,700		

^aAccuracy of measurement fair. ^bAccuracy of measurement poor. *Daily mean discharge.

Table 1.--Discharge at monitoring stations--Continued

Water year	October	1976 to	September	1977
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Wat	er year October	1976 to Septembe	r_1977	-
Date Discharg	ge Date	Discharge	Date	Discharge
Ark31 Arkansas Riv at Lock and Dam 9 m Oppelo, ArkCont	near River ne	Petit Jean Pear Booneville,		Arkansas Rive Buren, Ark.
June 6 b59,300 July 12 b60,100 Aug. 9 b10,700 Sept. 13 b29,400	Oct. 6 Nov. 3 Dec. 7 Jan. 5 Feb. 2	114 41 409 24.8 134	Oct. 5 Nov. 2 Nov. 30 Jan. 4 Feb. 1 Mar. 1	7,650 6,750 10,500 14,400 12,200 3,840
Ark32 Arkansas Rivat Dardanelle, Ark Oct. 6 *2,430 Nov. 3 22,500		385 140 23 .6 .5	Apr. 5 May 3 May 31 July 5 Aug. 2	*28,300 9,830 48,700 78,700 48
Dec. 7 24,000 Jan. 5 8,260 Feb. 2 32,000	Aug. 23	1.6 Petit Jean River	Sept. 6	32,100 Arkansas River
Mar. 7 32,900 Apr. 6 27,000 May 4 20,500 June 6 *54,400	near Cen Oct. 6 Nov. 3	*21 *156	at Robe	rt Kerr Dam near Sallisaw
July 12 *54,300 Aug. 9 14,200 Sept. 13 30,100	Dec. 7 Jan. 5 Feb. 2 Mar. 7	*73 *42 *1,210 *1,090	Oct. 5 Nov. 2 Nov. 30	17,000 15,000 8,360
Ark33 Arkansas Riv at Ozark Dam at Ozark, Ark.	/er Apr. 6 May 4 June 6	*2,460 *84 *38 *47	Jan. 4 Feb. 1 March 1 Apr. 5	16,900 17,200 0 44,100
Oct. 6 *4,690 Nov. 3 17,200 Dec. 7 15,000	July 12 Aug. 9	*52 ourche La Fave	May 3 May 31 July 5 Aug. 2	16,800 54,100 70,300 0
Jan. 5 8,210 Feb. 2 8,730 Mar. 7 8,890	Ark.	ar Gravelly,	Sept. 6	25,400 Illinois River
Apr. 6 29,200 May 4 18,200 June 6 *57,200	Oct. 5 Nov. 2 Nov. 30	12 3.6 11.8	at Savo	y, Ark. 76
July 12 *52,000 Aug. 9 *13,500 Sept. 13 *36,900	Jan. 4 Feb. 1 Mar. 1 Apr. 5 May 3	334. 84 142 179	Nov. 9 Dec. 15 Dec. 27 Jan. 4	76 16 2 2
	May 3 May 31 July 5 Aug. 2	34 4.5 26.7 12.4	Mar. 2 Apr. 5 May 3 May 31	16 106 5 2

^bAccuracy of measurement poor. *Daily mean discharge.

Table 1. -- Discharge at monitoring stations -- Continued

[All discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily mean]

Water year October 1976 to September 1977

		Water y	ear October	1976 to Septem	ber 1977	
Date	2	Discharge	Date	Discharge	Date	Discharge
		inois River ArkCont.	Red-4A Da southeas Texarkar		near Tay	Dorcheat Bayou vlor, Ark.
July	5	2		,	Oct. 25	a*11
Aug.	2	76	Jan. 18	79	Nov. 23	a*12
Sept.	6	76	Feb. 9	41	Dec. 20	a*128
верс.	O	, 0	Mar. 9	41	Jan. 26	a*204
ark -4	1 Osa	ge Creek	Apr. 13	22	Feb. 23	a*396
		prings, Ark.	May 11	17	Mar. 23	a*218
near	LIMI	prings, m.k.	June 8	5	Apr. 27	a+456
Oct.	19	60	July 13	205	May 25	a*14
Nov.	23	60	Sept. 7	68	June 22	a*29
Dec.	27	48	Sept.	00	Aug. 24	a*13
Jan.	26	57	Red-5 Sul	phur River	Sept. 21	a*7
Feb.	15	59		Texarkana,	Sept. 21	,
Mar.	16	78	Ark.	Texar Kana,	Red-21 Sa	line River
	19	76	AIK.			kesburg, Ark.
Apr. May	17	51	Oct. 11	*2,300		3,
June	14	52	Dec. 6	*223	Oct. 11	7.8
	19	37	Mar. 9	*9,300	Nov. 3	234
July	16	36	Apr. 13	*10,700	Dec. 6	184
Aug.	20	4.0	May 11	*380	Jan. 18	871
Sept.	20	43	June 8	*89	Feb. 9	225
Red-2	1 +++1	e River		*87	Mar. 9	849
				*87	Apr. 13	1,040
near	norat	io, Ark.	Aug. 9 Sept. 7	*88	May 11	97
Oct.	11	555	Sept. 7	00	July 13	16
Nov.	3	2,110	Red-9 Red	River at	Aug. 9	15
Dec.		1,150			Sept. 7	11
Mar.	6	5,160	Spring b	ank, Ark.	l sop or	
Apr.	13	12,800	Oct. 25	*12,000	Red-22 Co	ssatot River
May	11	2,820	Nov. 23	*6,500		kesburg, Ark.
June	8	483	Dec. 20	*22,000		
July	13	900	Feb. 23	*26,000	Oct. 11	*51
Aug.	9	247	Mar. 23	*18,000	Nov. 3	*1,060
Sept.	7	221	Apr. 27	*51,000	Dec. 6	a*67
осрс.	,	221	May 25	*11,000	Jan. 18	a*96
Red-4A	Davo	Creek	June 22	*11,000	Feb. 9	a*70
	heast		July 27	*4,400	Mar. 9	*1,870
	rkana,		Aug. 24	*3,200	Apr. 13	*3,040
ICAd	i Karia,	m K.	Sept. 21	*4,600	May 11	*162
Oct.	11	105	Jept. 21	7,000	June 8	*33
Nov.	3	68	1		July 13	*50
10 V .	3	00			Aug. 9	*44
			į.		Sept. 7	*35

^aAccuracy of measurement fair. *Daily mean discharge.

Table 1.--Discharge at monitoring stations--Continued

	Water y	ear October	1976 to Septemb	er 1977	
Date	Discharge	Date	Discharge	Date	Discharge
Foreman,			ayou de Loutre Dorado, Ark ed		Duachita River Elsenthal, Ark
Oct. 11 Nov. 3 Dec. 6 Jan. 18 Feb. 9 Mar. 9 Apr. 13 May 11 June 8 July 13	*2,220 *3,370 *5,110 *12,500 *7,580 *9,170 *18,700 *6,020 *28,000 *3,750	Jan. 17 Feb. 14 Mar. 29 Apr. 18 June 20 June 29 Aug. 17 Sept. 14	153 361 825 39 19 825 19		*7,130 *1,460 *1,680 *1,520 *957 Saline River ountain Hill, Ar
Aug. 9 Sept. 7	*3,300 *2,830	H	uachita River Ivern, Ark.	Oct. 13 Nov. 9 Dec. 8	a*120 a*467 a*582
	odcau Creek visville, Ark. 0.3 30 189 372 120	Oct. 27 Nov. 30 Dec. 21 Dec. 22 Jan. 18 Feb. 15 Mar. 30 Apr: 19	3,210 3,370 630 317 2,290 3,180 9,270 *6,360	Jan. 12 Apr. 4 May 3 June 6 July 6 Aug. 3 Aug. 31	a*1,170 a*9,620 a*7,670 a*127 a135 a*182 a*74
Apr. 27 May 25 June 22 July 27 Aug. 24 Sept. 21	840 0.3 6 0 0.2 0.2	May 24 June 21 July 21 Aug. 17 Sept. 15	*429 76 108 86 95		Bayou Barthol- ear Jones, La. *128 *444 *231
Fra5A P			Duachita River & Dam 8 near Ark.	Jan. 12 Jan. 31 Feb. 28	*391 *1,220 *638 *1,740
Oct. 13 July 11 Sept. 19	140 480 171	Oct. 26 Nov. 29 Dec. 21	*3,700 *4,000 *2,900	Apr. 4 May 3 May 6 June 6	*1,740 *1,920 *1,630 *131 *105
	ayou de Loutre Dorado, Ark.		uachita River Isenthal, Ark.	July 6 Aug. 3 Aug. 9 Aug. 31	*153 *229 *152
Oct. 26 Nov. 29 Dec. 21	47 91 32	Oct. 12 Nov. 9 Dec. 8	*2,690 *5,000 *3,750	Aug. 31	132

 $[^]a\!\mathrm{Accuracy}$ of measurement fair. *Daily mean discharge.

Table 1.--Discharge at monitoring stations--Continued

Water year October 1976 to September 1977 Discharge Discharge Date Date Discharge Date Oua.-26 Saline River Oua.-15A Boeuf River Oua. -24 Ouachita River near Arkansasat Carpenter Dam near west of Benton, Ark .--Louisiana State line Hot Springs, Ark. Continued 12 19 June 14 19 Oct. 58 Oct. 4,910 27 4,240 20 9 135 23 July Nov. Nov. 31 184 14 Aug. 24 Jan. 31 Dec. 3,560 124 24 *59 Feb. 28 Jan. 0 Sept. 21 0 Feb. 15 0 June 6 0 15 Oua.-27 Smackover July 6 Mar. 0 178 19 Creek north of Aug. Apr. 5,080 31 140 Aug May 17 3,390 Smackover, Ark. Oua.-21 Ouachita River June 14 3.220 *48 19 26 near Mount Ida, Ark. July 1,690 Oct. *90 Aug. 23 3,390 Nov. 30 *63 Oct. 19 46 Dec. 21 Sept. 20 3,900 17 23 Jan. *672 Nov. 308 Feb. 14 *1,130 Dec. 14 1,220 Oua.-25 Ouachita River 24 29 *1,410 Jan. 644 Mar. at Blakely Mountain Feb. 15 947 Dam near Hot Springs, Apr. 18 *573 15 *39 Mar. 810 May 23 Ark. *75 Apr. 19 June 20 1.090 May 17 69 Oct. July 20 *6 19 4.000 June 14 56 Nov. 23 1,500 Aug. 17 *5 19 23 *]] July Dec: 14 20 Sept. 14 52 23 Jan. 24 Aug. 20 Oua.-28 Moro Creek Sept. 20 28 Feb. 15 20 15 near Banks, Ark: Mar. 3,400 Oua.-23 Caddo River 19 20 Apr. 0.20 17 20 Oct. 26 near Amity, Ark. May 14 29 112 June 20 Nov. Oct. 27 19 53 July 19 2,000 Dec. 247 Nov. 23 230 23 20 Jan. 17 800 Aug. Dec. 14 600 Sept. 20 20 Feb. 14 854 148 Jan. 24 345 Apr. 18 Feb. 15 700 Oua.-26 Saline River Mar. 15 345 Oua.-29 Ouachita River west of Benton, Ark. Apr. 19 1,360 near Sparkman, Ark. May 17 71 Oct. 20 33 *5,280 June 132 790 26 14 Dec. 15 Oct. July 19 33 Jan. 25 30 *4,920 892 Nov. Aug. 23 44 Feb. 16 677 21 *2,320 Dec. 20 42 16 460 Sept Mar. May 18 74

Table 1.--Discharge at monitoring stations--Continued

	Water y	ear October 1	976 to Septemb	er 1977	
Date	Discharge	Date	Discharge	Date	Discharge
near Dona	achita River Idson, Ark.		ning, Ark.	River	Eleven Point near Pocahontas Continued
Nov. 30	*4,120	Oct. 14 Nov. 17	417 405	May 24	*760
Oua32 Bi Jerome, A Oct. 12	g Bayou near rk. c ₅₈	Dec. 8 Mar. 8 Apr. 12 May 24	430 1,800 2,070 1,820	June 21 July 26 Aug. 23 Sept. 27	*546 *488 *697
Nov. 9	c ₀	June 13 June 28	477 956		Kings River
Dec. 9 Jan. 12 Jan. 31	c 86 c 65	July 11 Aug. 1	1,160		Berryville, Ark.
Feb. 28 Apr. 4 May 3 June 6	^C 58 ^C 1,370 ^C 86 ^C 0	Sept. 19	892 urrent River ahontas, Ark.	Oct. 19 Nov. 23 Dec. 27 Mar. 16	595 170
July 6 Aug. 3 Aug. 31	c 65 c 86 c 86	Oct. 18 Nov. 22	a*1,130 a*1,190	Apr. 19 May 17 June 14	1,190 302 300
	you Barthol- Ladd, Ark.	Dec. 28 Jan. 26 Feb. 22 Mar. 22	a*1,170 a*1,160 a*1,170 a*2,410	July 19 Aug. 16 Sept. 20	374
Nov. 9 Dec. 9 Jan. 12	7 46 69	Apr. 26 May 24 June 21	a*3,110 a*2,160 a*1,430		White River ver, Ark.
Jan. 12 Jan. 31 Feb. 28 Apr. 4 May 3	43 36 537 33	July 26 Aug. 23 Sept. 27	a *1,410 a *2,490 a *3,840	Oct. 19 Nov. 23 Dec. 27 Jan. 26	6*4,730 6*670 6*20
June 6 Aug. 3	0.5 48		leven Point ar Pocahontas,	Feb. 15	b*20 b*20 b*20
	ttle Missouri r Boughton,	Oct. 18 Nov. 22 Dec. 28	*497 *470 *440	May 17 June 14 July 19 Aug. 16	^b *160 ^b *270 ^b *150
Oct. 25 Nov. 23 Dec. 20	*164 *620 *394	Jan. 26 Feb. 22 Mar. 22 Apr. 26	*416 *421 *792 *1,310	Sept. 20	h

*Daily mean discharge.

Accuracy of measurement fair.

Accuracy of measurement poor.

Possible backwater effect at all stages.

Table 1.--Discharge at monitoring stations--Continued

		Water y	rear October	1976 to Septemb	per 1977	
Dat	е	Discharge	Date	Discharge	Date	Discharge
		oring River at Ark.		Strawberry Rive		Cache River sh, ArkCont.
Oct. Nov. Dec. Mar. Apr. May June July Aug. Sept.	18 22 28 22 26 24 21 26 23 27	358 370 362 853 1,800 802 *475 430 499 2,410	Oct. 18 Nov. 22 Dec. 28 Jan. 26 Feb. 22 Mar. 22 Apr. 26 May 24 June 21 July 26 Aug. 23	*81 *97 *100 *108 *158 *383 *768 *243 *105 *92 *94	DeValls Oct. 27 Nov. 15 Dec. 14 Feb. 23	a*790 a*130 a*950 White River at Bluff, Ark. 16,500 11,900 10,200 10,700
near Oct. Nov. Dec. Jan. Feb. Mar.	18 22 28 26 22 22	160 160 160 230 300 720	Pocahon Aug. 23 Sept. 27 Whi26	Black River at tas, Ark. 3,070 6,970 Bayou DeView bson, Ark.		15,800 31,200 9,660 7,460 8,880 8,640 16,500 White River
Spri		600 395 395 1,060 uth Fork ver at rk.	Nov. 17 June 13 June 28 July 11 Aug. 1 Sept. 19	6 67 10 18 0 38	Oct. 19 Nov. 23 Dec. 29 Mar. 22 Apr. 26 May 24 June 21	*10,100 *6,830 *5,400 *17,900 *27,700 *14,800 *6,230
Oct. Nov. Dec. Jan. Feb. Mar. Apr. May June July Aug. Sept:	18 22 28 26 22 22 26 24 21 26 23 27	24 41 30 41 47 80 290 80 46 422 530 422	Whi27 Onear Cas Oct. 13 Oct. 14 Nov. 17 Dec. 8 Mar. 8 Apr. 12 May 24 June 13 June 28	Cache River sh, Ark.	July 26 Aug. 23 Sept. 28	*8,030 *12,400 *15,900 Big Creek kins Corner, b*400 b*180 b*230 b*980

^aAccuracy of measurement fair. ^bAccuracy of measurement poor. *Daily mean discharge.

Table 1.--Discharge at monitoring stations--Continued

on year Actober 1076 to Contember 1077

	Water ye	ear October	1976 to Septemb	er 1977	_
Date	Discharge	Date	Discharge	Date	Discharge
Whi37 E near Wat ArkCo	ckins Corner,	at Norf	North Fork River	Bull SI	White River at hoals Dam near n, ArkCont.
Feb. 23 Mar. 28 Apr. 25	6*470 6*770 6*66	Oct. 13 Nov. 17 Dec. 21 Jan. 17	5,730 2,980 6,070 5,330	Aug. 9 Sept. 19	50 50
June 7 June 27 July 19	6*5.8 6*970 6*540	Feb. 16 Mar. 21 Apr. 20	20 20 20		Crooked Creek yatt, Ark.
Aug. 22 Sept. 26	b*280 b*1,600	May 18 June 15 July 18	20 20 20	Apr. 20 May 18 July 18	
Whi41 L River ne Ark.	ittle Red ar Wilburn,	Aug. 9 Sept. 19	20 20		Buffalo River
Oct. 13 Nov. 17 Dec. 21 Jan. 17 Feb. 16 Mar. 21 Apr. 20 May 18 June 15 July 18 Aug. 9 Sept. 19	a6,230 a6,980 a20 a5,530 a20 a20 a7,420 a1,680 a20 a20 a20 a20 a20	Norfork Oct. 13 Nov. 17 Jan. 17 Feb. 16 Mar. 21 Apr. 20 May 18 June 15 July 18 Aug. 9 Sept. 19	White River neams, Ark. a*7,990 a*3,150 a*11,900 a*10,200 a*2,060 a*5,260 a*7,540 a*1,520 a*871 a*3,830 a*1,380	Oct. 13 Nov. 17 Dec. 21 Jan. 17 Feb. 16 Mar. 21 Apr. 20 May 18 June 15 July 18 Aug. 9 Sept. 19	25 82 143 85 420 530 346 187 57 65 65
Whi43 M Little R near Shi			White River at noals Dam near n, Ark.	11/	West Fork White east of eville, Ark.
Oct. 13 Nov. 17 Dec. 21 Feb. 16 Mar. 21 Apr. 20 May 18 June 15 July 18 Aug. 9 Sept. 19	1.4 25 46 *227 *227 *292 *67 6.9 *4.4 *6.7	Oct. 13 Nov. 17 Dec. 21 Jan. 17 Feb. 16 Mar. 21 Apr. 20 May 18 June 15 July 18	23,100 1,740 7,560 23,300 20,100 9,960 11,200 50 50	Oct. 19 Nov. 23 Dec. 27 Jan. 26 Feb. 15 Mar. 16 Apr. 19 May 17 June 14 July 19 Aug. 16	a*12 a*9 a*14 a*60 a*124 a*36 a*8 a*6 a*2 a*16

^aAccuracy of measurement fair. ^bAccuracy of measurement poor. *Daily mean discharge.

Table 1.--Discharge at monitoring stations--Continued

Water year	October	1976 to	September	1977
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Date	Discharge	Date	Discharge	Date	Discharge
Whi52 W Goshen,	hite River near Ark.				
Oct. 19 Nov. 23 Jan. 26 Feb. 15 Mar. 16 Apr. 19 May 17 June 14 July 19 Aug. 16 Sept. 20	16 63 54 348 632 129 18 21 7.6 43.0 213				
				,	

Table 2. -- Discharge at monitoring stations

[All discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily mean. Abbreviations used: Ark., Arkansas; Whi., White; Oua., Ouachita; Fra., St. Francis]

Water year October 1973 to September 1974--miscellaneous dates

Date	Discharge	Date	Discharge	Date	Discharge
Fra7 St					
Ark.	St. Francis,				
Ann 22	*3,510				
Apr. 23 May 21	*4,700				
June 18	*2,540				
July 16	*298				
Aug. 13 Sept. 10	*291 *1,740				
эере. 10	1,7,10				
	+				
					, ,
	15,510				
				,	
	-				
			17,1803		

Table 2. -- Discharge at monitoring stations -- Continued

[All discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily mean]

Water year October 1974 to September 1975 -- miscellaneous dates

Water year October 1974 to September 1975miscellaneous dates						
Date	Discharge	Date	Discharge	Date	Discharge	
Fra6 Right Hand Chute of Little River at Big Lake Outlet near Manila, Ark.		Fra8 St. Francis River at Lake City, Ark.		Whi36 White River a St. Charles, Ark. Oct. 28 *15,100 Dec. 10 *34,100		
Oct. 23 Nov. 20 Dec. 18 Jan. 6 Feb. 4 Mar. 3 Apr. 2	*670 *1,090 *960 *4,070 *3,210 *7,400 *33,500	Apr. 2 Apr. 30 June 2 July 8 July 30 Aug. 27 Sept. 24	*20,000 *4,060 *2,340 *731 *838 *747 *1,770	Jan. 15 Feb. 12 Mar. 12 Apr. 7 May 5 June 18 July 7	*56,200 *60,300 *61,800 *160,000 *75,900 *18,700 *19,300	
Apr. 30 June 2 July 8 July 30	*4,230 *2,200 *1,060 *1,360	Ark.	Marianna,	Aug. 4 Sept. 3 Sept. 29	*19,400 *15,300 *24,400	
Aug. 27 *1,790 Sept. 24 *2,980 Fra7 St. Francis River at St. Francis, Ark.		Oct. 28 Dec. 10 Jan. 15 Feb. 12 Mar. 12	*1,460 *4,980 *3,530 *11,300 *5,060 *2,530			
Oct. 8 Nov. 5 Dec. 3 Jan. 21 Feb. 18 Mar. 18	*400 *2,200 *2,100 *4,450 *3,630 *5,680	May 5 June 18 July 7 Aug. 4 Sept. 3 Sept. 29	a*443 a*127 a*891 a*754 a*1,240			
Apr. 15 May 13 June 16 July 16	*6,050 *5,000 *667 *466		ite River at Dam 1 near k.			
River at	*300 *501 St. Francis t Lake City,	Oct. 28 Dec. 10 Jan. 15 Feb. 12 Mar. 12	*17,000 *38,000 *58,000 *72,000 *58,000			
Ark. Oct. 23 Nov. 20 Dec. 18 Jan. 6 Feb. 4 Mar. 3	*742 *3,420 *1,770 *2,960 *4,050 *8,850	Apr. 7 May 5 June 18 July 7 Aug. 4 Sept. 3 Sept. 29	*156,000 *84,000 *22,000 *22,000 *17,000 *20,000 *24,000			

Table 2.--Discharge at monitoring stations--Continued

[All discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily mean]

Water year October 1975 to September 1976--miscellaneous dates

Water year October 1975 to September 1976miscellaneous dates						
Date	Discharge	Date	Discharge	Date	Discharge	
Red-5 Sulphur River south of Texarkana, Ark.		Fra4A Mississippi River at Barfield, ArkContinued		Fra8 St. Francis River at Lake City, Ark.		
Oct. 14 Nov. 18	*2,930 *112 *49 *117 *1,930 *108 *1,670 *2,610 *10,200 *3,710 *456 d River at Bank, Arkansas *5,100 *4,100 *5,400 *3,400 *6,100 *11,000 *46,000	of Litt	*177,000 *149,000 *134,000 ight Hand Chute le River at Big tlet near Ark. *830 *960 *4,000 *2,070 *2,140 *2,170 *1,480 *1,530 *2,540 *4,380 *1,000 *590		*534 *3,380 *1,560 1 *3,700 2 *2,610 3 *2,480 2 *706 8 *737 3 *3,110 1,230 4 *604 **Comparison of the comparison of the compari	
May 25 June 29 July 28 Aug. 25 Sept. 22	*15,000 *17,000 *11,000 *3,600 *6,400	Ark. Oct. 7 Nov. 4	*403 *406	Mar. 22 Apr. 28 May 19 June 21 July 26 Aug. 23	2	
	*465,000 *343,000 *418,000 *723,000 *399,000 *600,000 *504,000 *397,000 *404,000 *286,000	Dec. 15 Jan. 14 Feb. 11 Mar. 22 Apr. 13 May 12 June 9 July 13 Aug. 10 Sept. 14	*945 *756 *4,060 *1,530 *901 *467 *855 *3,370 *444 *125		ck and Dam 8 Calvion, Ark. 0 *2,300 7 *2,500 9 *2,300 8 *11,000 5 *2,300 0 *1,600 7 *3,400	

aAccuracy of measurement poor.
*Daily mean discharge.

Table 2. -- Discharge at monitoring stations -- Continued

[All discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily mean]

Water year October 1975 to September 1976--miscellaneous dates

Discharge chita River man, Ark. *1,620 *5,060 *4,320 *2,520	Lock and Nady, Arl Oct. 27	Discharge ite River at Dam 1 near	Date	Discharge
*1,620 *5,060 *4,320	Lock and Nady, Arl Oct. 27	Dam 1 near		
*2,580 *3,720	Dec. 1 Dec. 29 Jan. 6	*13,000 *14,000 *27,000 *30,000		
*3,780 *853 *2,870 *1,460	Feb. 3 Mar. 2 Apr. 5 May 25 June 14	*29,000 *41,000 *28,000 *17,000 *29,000		
dson, Ark.	July 12 Aug. 9 Sept. 13	*40,000 *26,000 *14,000		
ar. 18 *650 pr. 20 *2,690		Whi 26 Bayou DeView near Gibson, Ark.		
*3,860 *578 *2,160 *1,750	Oct. 22 Nov. 25 Apr. 13 Sept. 14	23 6 9 6		
iver near	St. Charl	es, Ark.		
*1,260 *1,010 *1,380 *498 *266 *3,380 *1,630	Dec. 1 Dec. 29 Jan. 6 Feb. 3 Mar. 2 Apr. 5	*14,500 *26,000 *32,000 *29,000 *32,700 *27,700	,	
*93 *54 *95	June 14 July 12 Aug. 9 Sept. 13	*24,500 *37,500 *23,600 *13,900		
	*2,870 *1,460 chita River dson, Ark. *6,150 *650 *2,690 *758 *3,860 *578 *2,160 *1,750 tle iver near Ark. *1,260 *1,010 *1,380 *498 *266 *3,380 *1,630 *93 *54	*2,870 *1,460 *1,460 Apr. 5 June 14 July 12 Aug. 9 Sept. 13 *6,150 *650 *2,690 *758 *3,860 *2,160 *1,750 *1,750 Whi 26 F near Gibs *2,160 *1,750 Apr. 13 Sept. 14 ** ** ** ** ** ** ** ** **	*2,870 *1,460 *1,460 May 25 *17,000 June 14 *29,000 Chita River dson, Ark. *4,150 *6,150 *650 *2,690 *758 *3,860 *578 *0ct. 22 23 *578 *2,160 *1,750 *1,750 *1,750 *1,750 *2,160 *1,010 *1,380 *1,380 *498 *498 *266 *3,380 *498 *266 *3,380 Apr. 5 *28,000 May 25 *17,000 Sept. 13 *29,000 Mhi 26 Bayou DeView near Gibson, Ark. *4,600 *1,750 *1,600 Dec. 22 23 *578 *1,600 Apr. 13 9 *1,600 Dec. 1 *14,500 Dec. 29 *26,000 *1,380 Jan. 6 *32,000 *498 *266 Mar. 2 *32,700 Apr. 5 *27,700 May 25 *14,700 June 14 *24,500 July 12 *37,500 Aug. 9 *23,600	*2,870 *1,460 Apr. 5

^bRevised discharge from 1976 Water Year Report. *Daily mean discharge. 17

