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## 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

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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:

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

Al1 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.

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 stagedischarge 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.
[A11 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
Date Discharge

| Ark.-1 Little Sugar |
| :---: |
| Creek at Caverna, Mo. |


| Oct. 19 | $a_{9}$ |  |
| :--- | :--- | :--- |
| Nov. 23 | $a_{4}$ |  |
| Feb. 15 | $a_{20}$ |  |
| Mar. 16 | 76 |  |
| May | 17 | $a_{9}$ |
| July | 19 | $a_{4}$ |
| Ark.-2 | Butler | Creek |
| near Sulphur Springs, |  |  |
| Ark. |  |  |


| Oct. | 5 | $a_{24}$ |  |
| :--- | ---: | :--- | :---: |
| Nov. | 9 | $a_{18}$ |  |
| Dec. | 15 | $a_{18}$ |  |
| Jan. | 4 | $a_{18}$ |  |
| Feb. | 1 | $a_{18}$ |  |
| Mar. | 2 | $a_{18}$ |  |
| May | 3 | $a_{2}$ |  |
| May | 31 | $a_{1}$ |  |
| July | 5 | $a_{30}$ |  |
| Aug. | 2 | $a_{2}$ |  |
| Ark. 3 SA Spavinaw Creek |  |  |  |
| near Sycamore, Okla. |  |  |  |


| Nov. | 9 | 24 |
| :--- | ---: | ---: |
| Dec. | 5 | 22 |
| Dec. | 15 | 26 |
| Jan. | 4 | 21 |
| Feb. | 1 | 25 |
| Mar. | 2 | 24 |
| Apr. | 5 | 88 |
| May. | 3 | 27 |
| May | 31 | 19 |
| July. | 5 | 38 |
| Aug. | 2 | 18 |
| Sept. | 6 | 30 |



| Oct. | 5 | $a_{* 140}$ |
| :--- | ---: | ---: |
| Nov. | 9 | $a_{* 100}$ |
| Dec. | 15 | $a_{* 120}$ |
| Jan. | 4 | $a_{* 96}$ |
| Apr. | 5 | $a_{* 610}$ |
| May | 3 | $a_{* 160}$ |
| May | 31 | $a_{* 100}$ |
| Ju7y | 5 | $a_{* 120}$ |
| Aug. | 2 | $a_{* 100}$ |
| Sept. | 6 | $a_{* 76}$ |

Ark.-7 Baron Fork at Dutch Mills, Ark.

## Oct. Nov Dec Jan Mar Apr May May Jul Aug Sep

[^0]Table 1.--Discharge at monitoning stations-- Continued
[A11 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


## at Dam No. 2 near

 Arkansas Post, Ark.| Oct. | 4 | $a_{5}, 700$ |
| :--- | ---: | ---: |
| Nov. | 1 | $a_{3}, 800$ |
| Nov. | 30 | $a_{9}, 000$ |
| Mar. | 14 | $a_{35}, 900$ |
| Apr. | 11 | $a_{34}, 100$ |
| May | 9 | $a_{9}, 030$ |
| June | 14 | $a_{19}, 500$ |
| July | 12 | $a_{74}, 800$ |
| Aug. | 8 | $a_{18,100}$ |
| Sept. | 12 | $a_{32,500}$ |


| Oct. | 4 | $b * 10$ |
| :--- | ---: | ---: |
| Nov. | 1 | $b * 842$ |
| Nov. | 30 | $b * 39$ |
| Feb. | 7 | $b * 500$ |
| Mar. | 14 | $b * 2,400$ |
| Apr. | 11 | $b * 2,040$ |
| May. | 9 | $b * 676$ |
| June | 14 | $b * 0$ |
| July | 12 | $b * 952$ |
| Aug. | 8 | $b * 97$ |
| Sept. 12 | $b * 54$ |  |

Ark.-21 Bayou Two Prairie South of Cabot, Ark.

| Oct. | 19 | 0 |
| :--- | :--- | :---: |
| Nov. | 23 | 7 |
| Dec. | 29 | 10 |
| Jan. | 27 | 77 |
| Feb. | 23 | 16 |
| Mar. | 23 | 16 |
| May | 24 | 7.4 |
| June | 22 | 0 |
| July | 27 | 64 |
| Aug. 24 | 25 |  |
| Sept. 28 | 4 |  |

Ark.-24 Arkansas River at Lock and Dam 3
near Swan Lake, Ark.

| Oct. | 4 | b4, 900 |
| :--- | ---: | ---: |
| Nov. | 1 | 63,300 |
| Nov. | 30 | $b 12,400$ |
| Mar. | 14 | $b 32,500$ |
| Apr. | 11 | $b 36,600$ |
| May | 9 | 69,500 |
| June | 14 | $b 28,000$ |
| Ju1y | 12 | b89,900 |
| Aug. | 8 | b76,600 |
| Sept. | 12 | b26,900 |

Table 1.--Discharge at monitoning stations--Continued
[A]1 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


[^1]Table 1.--Discharge at monitoring stations--Continued
[A11 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

${ }^{a}$ Accuracy of measurement fair.
*Daily mean discharge.
[A11 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
Date Discharge

Red-25 Red River near Foreman, Ark.

| Oct. | 11 | $* 2,220$ |
| :--- | ---: | ---: |
| Nov. | 3 | $* 3,370$ |
| Dec. | 6 | $* 5,110$ |
| Jan. | 18 | $* 12,500$ |
| Feb. | 9 | $* 7,580$ |
| Mar. | 9 | $* 9,170$ |
| Apr. | 13 | $* 18,700$ |
| May | 11 | $* 6,020$ |
| June | 8 | $* 28,000$ |
| July | 13 | $* 3,750$ |
| Aug. | 9 | $* 3,300$ |
| Sept. | 7 | $* 2,830$ |

Red-27 Bodcau Creek near Lewisville, Ark.

| Oct. | 25 | 0.3 |
| :--- | :--- | :---: |
| Nov. | 23 | 30 |
| Jan. | 26 | 189 |
| Feb. | 23 | 372 |
| Mar. | 23 | 120 |
| Apr. | 27 | 840 |
| May | 25 | 0.3 |
| June | 22 | 6 |
| July | 27 | 0 |
| Aug. | 24 | 0.2 |
| Sept. | 21 | 0.2 |

Fra.-5A Pemiscot Bayou at De11, Ark.

| Oct. | 13 | 140 |
| :--- | :--- | :--- |
| July | 11 | 480 |
| Sept. | 19 | 171 |
| Oua.-5 | Bayou de Loutre |  |
| near | E1 Dorado, Ark. |  |


| Oct. | 26 | 47 |
| :--- | :--- | :--- |
| Nov. | 29 | 97 |
| Dec. | 21 | 32 |

Date Discharge

Oua.-5 Bayou de Loutre near El Dorado, Ark.-Continued

| Jan. | 17 | 153 |
| :---: | :---: | ---: |
| Feb. | 14 | 361 |
| Mar. | 29 | 825 |
| Apr. | 18 | 39 |
| June | 20 | 19 |
| June | 29 | 825 |
| Aug. | 17 | 19 |
| Sept. | 14 | 9 |

Oua.-6 Ouachita River near Malvern, Ark.

| Oct. | 27 | 3,210 |
| :--- | ---: | ---: |
| Nov. | 30 | 3,370 |
| Dec. | 21 | 630 |
| Dec. | 22 | 317 |
| Jan. | 18 | 2,290 |
| Feb. | 15 | 3,180 |
| Mar. | 30 | 9,270 |
| Apr. | 19 | $* 6,360$ |
| May | 24 | $* 429$ |
| June | 21 | 76 |
| July | 21 | 108 |
| Aug. | 17 | 86 |
| Sept. | 15 | 95 |

Oua.-7A Ouachita River at Lock \& Dam 8 near Calion, Ark.

Oct. 26 *3,700
Nov. 29 *4,000
Dec. 21 *2,900
Oua.-8 Ouachita River near Felsenthal, Ark.
$\begin{array}{lrr}\text { Oct. } & 12 & * 2,690 \\ \text { Nov. } & 9 & * 5,000 \\ \text { Dec. } & 8 & * 3,750\end{array}$

Date Discharge

Oua.-8 Ouachita River near Felsenthal, Ark.-Continued


| Oct. 13 | $a * 120$ |  |
| :--- | ---: | ---: |
| Nov. | 9 | $a * 467$ |
| Dec. | 8 | $a * 582$ |
| Jan. | 12 | $a_{* 1}, 170$ |
| Apr. | 4 | $a_{*}, 620$ |
| May | 3 | $a_{* 7}, 670$ |
| June | 6 | $a_{*}+127$ |
| July | 6 | $a_{135}$ |
| Aug. | 3 | $a_{* 182}$ |
| Aug. | 31 | $a_{* 74}$ |

Oua.-13 Bayou Bartholomew near Jones, La.

| Oct. | 12 | $* 128$ |
| :--- | ---: | ---: |
| Nov. | 9 | $* 444$ |
| Dec. | 8 | $* 231$ |
| Jan. | 12 | $* 391$ |
| Jan. | 31 | $* 7,220$ |
| Feb. 28 | $* 638$ |  |
| Apr. | 4 | $* 7,740$ |
| May | 3 | $* 1,920$ |
| May | 6 | $* 7,630$ |
| June | 6 | $* 131$ |
| July | 6 | $* 105$ |
| Aug. | 3 | $* 153$ |
| Aug. | 9 | $* 229$ |
| Aug. | 31 | $* 152$ |

[^2]Table 1.--Discharge at monitoring stations--Continued
[A1] 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

|  |  | Discharge | Date | Discharge | Date | Discharg |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Oua.-75A Boeuf River near ArkansasLouisiana State line |  |  | Oua.-24 Ouachita River at Carpenter Dam near Hot Springs, Ark. |  | Oua.-26 Saline River west of Benton, Ark. Continued |  |
| oct. | 12 | 58 | Oct. 19 4,910 <br> Nov. 23 4,240 |  | $\begin{array}{\|ll} \text { June } & 14 \\ \text { July } & 20 \\ \text { Aug. } & 24 \\ \text { Sept. } & 21 \end{array}$ |  |
| Nov. | , | 135 |  |  |  |  |
| Jan. | 31 | 184 | $\begin{array}{llr}\text { Dec. } & 14 & 3,560 \\ \text { Jan. } 24 & 0\end{array}$ |  |  |  |
| Feb. | 28 | 124 |  |  |  |  |
| June | 6 | 0 | $\begin{array}{ll} \text { Feb. } & 15 \\ \text { Mar. } & 15 \end{array}$ |  |  |  |
| July |  | 0 |  |  | Oua.-27 Smackover |  |
| Aug. |  | 78 | Apr. 19May 17 | 5,080 | Creek north of Smackover, Ark. |  |
|  | 31 |  |  | 3,390 |  |  |  |
| Oua.-21 Ouachita River near Mount Ida, Ark. |  |  | June 14 3,220 |  | Oct 26 *48 |  |
|  |  |  | $\begin{array}{ll}\text { July } & 19 \\ \text { Aug. } & 23 \\ \text { Sept. } & 20\end{array}$ | $\begin{aligned} & 1,690 \\ & 3,390 \\ & 3,900 \end{aligned}$ |  |  |  |
|  |  |  | $\begin{array}{ll}\text { Oct. } \\ \text { Nov. } & \\ \text { N }\end{array}$ |  | *90 |  |
| Oct.Nov. | 19 | 46 |  |  | Dec.Jan.71 | *63 |
|  | 23 | 1,220 |  | Sept. 20 |  | 3,900 | *672 |
| Dec.Jan. | 14 |  | Oua.-25 Ouachita River |  | Jan. <br> Feb. <br> 14 | *1,130 |
|  | 24 | 644 | at Blakely Mountain Dam near Hot Springs, |  | Mar. 29 | *1,410 |
| Feb. | 15 | 947 |  |  | Apr. 18 | *573 |
|  | 15 | 810 | Dam near Hot Springs, Ark. |  | May 23 | *39 |
| Apr. | 19 | 1,090 | Ark. | A,000 | June 20 | *75 |
| May | 17 | 69 | Oct. 19 |  | July 20 | * 6 |
| June | 14 | 56 | Nov. 23 | 1,500 | $\begin{array}{ll} \text { Aug. } 17 \\ \text { Sept. } 14 \end{array}$ | *5 |
| July | 19 | 23 | Dec: 1 | 20 |  |  |
| Aug. | 23 | 52 | Jan. 24 | 20 | Sept. 14 | 411 |
| Sept | 20 | 28 | Feb. 1 | 20 | Oua.--28 Moro Creek near Banks, Ark. |  |
| Oua.-23 Caddo River near Amity, Ark. |  |  | Apr. 19 | $\begin{array}{r} 3,400 \\ 20 \end{array}$ |  |  |  |
|  |  |  | MayJune1 | $\begin{aligned} & 20 \\ & 20 \end{aligned}$ | $\begin{array}{llc}\text { Oct. } & 26 & 0.20 \\ \text { Nov. } & 29 & 112\end{array}$ |  |
|  |  |  |  |  |  |  |  |  |
| 0ct. | 19 | 53 | JutyAug. | 2,00020 | Nov. 29 Dec. |  |
| Nov. | 23 | 230 |  |  | Dec. ${ }^{\text {Jan. }} 1$ | 17800 |
| Dec. | 14 | 600 | Sept. 2020 |  | Feb.Apr.18 | $\begin{aligned} & 854 \\ & 148 \end{aligned}$ |
| Jan. | 24 | 345 |  |  |  |  |  |
| Feb. | 15 | 700 | Oua.-26 Saline River west of Benton, Ark. |  |  |  |
| Mar. | 15 | 345 |  |  | Oua.-29 Ouachita Rive near Sparkman, Ark. |  |
| Apr. | 19 | 1,360 | 0ct. 20$33$ |  |  |  |  |
| May | 17 | 71 |  |  |  |  |
| June | 14 | 132 | Dec. 15 | 790 | Oct. 26 | $\begin{aligned} & * 5,280 \\ & * 4,920 \\ & * 2,320 \end{aligned}$ |
| July | 19 | 33 | Jan. 25 | 892 | Nov. 30 |  |
| Aug. | 23 | 44 | Feb.Mar.May | $\begin{array}{r} 677 \\ 460 \\ 74 \end{array}$ | Dec. 21 |  |
| Sept | 20 | 42 |  |  |  | *2,320 |
|  |  |  |  |  |  |  |

*Daily mean discharge.

Table 1.--Discharge at monitoring stations--Continued
[Al1 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



Whi.-10B White River at Beaver, Ark.

| Oct. | 19 | $b_{* 4}, 400$ |
| :--- | :--- | ---: |
| Nov. | 23 | $b_{* 厶}, 730$ |
| Dec. | 27 | $b_{* 670}$ |
| Jan. | 26 | $b_{* 20}$ |
| Feb. | 15 | $b_{* 20}$ |
| Mar. | 16 | $b_{* 20}$ |
| Apr. | 19 | $b_{* 20}$ |
| May | 17 | $b_{* 20}$ |
| June | 14 | $b_{*} 160$ |
| July | 19 | $b_{* 270}$ |
| Aug. | 16 | $b_{*} 160$ |
| Sept. 20 | $b_{* 140}$ |  |

[^3]Table 1.--Discharge at monitoring stations--Continued
[A11 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
Date Discharge ${ }^{\text {Date }}$ Discharge $\mid$ Date Discharge

Whi.-21 Spring River at Ravenden, Ark.

| Oct. | 18 | 358 |
| :--- | ---: | ---: |
| Nov. | 22 | 370 |
| Dec. | 28 | 362 |
| Mar. | 22 | 853 |
| Apr. | 26 | 1,800 |
| May | 24 | 802 |
| June | 21 | $* 475$ |
| July | 26 | 430 |
| Aug. | 23 | 499 |
| Sept. | 27 | 2,410 |

Whi.-22 Spring River near Hardy, Ark.

| Oct. | 18 | 160 |
| :--- | :--- | ---: |
| Nov. | 22 | 160 |
| Dec. | 28 | 160 |
| Jan. | 26 | 230 |
| Feb. | 22 | 300 |
| Mar. | 22 | 720 |
| May | 24 | 600 |
| July | 26 | 395 |
| Aug. | 23 | 395 |
| Sept. | 27 | 1,060 |

Whi.-23 South Fork Spring River at Saddle, Ark.

| Oct. | 18 | 24 |
| :--- | :--- | ---: |
| Nov. | 22 | 41 |
| Dec. | 28 | 30 |
| Jan. | 26 | 41 |
| Feb. | 22 | 47 |
| Mar. | 22 | 80 |
| Apr. | 26 | 290 |
| May | 24 | 80 |
| June | 21 | 46 |
| July | 26 | 422 |
| Aug. | 23 | 530 |
| Sept. | 27 | 422 |

Whi.-24 Strawberry River Whi.-27 Cache River near Smithville, Ark.

| Oct. | 18 | *81 | July 11 | $a * 790$ |
| :---: | :---: | :---: | :---: | :---: |
| Nov. | 22 | *97 | Aug. 1 | $a * 130$ |
| Dec. | 28 | *100 | Sept. 19 | $a * 950$ |
| Jan. | 26 | *108 |  |  |
| Feb. | 22 | *158 | Whi.-31 | Riv |
| Mar. | 22 | * 383 | DeValls | $f$, Ar |


| Oct. | 27 | 16,500 |
| :--- | ---: | ---: |
| Nov. | 15 | 11,900 |
| Dec. | 14 | 10,200 |
| Feb. | 23 | 10,700 |
| Mar. | 28 | 15,800 |
| Apr. | 25 | 31,200 |
| June | 7 | 9,660 |
| June | 27 | 7,460 |
| July | 19 | 8,880 |
| Aug. | 22 | 8,640 |
| Sept. 26 | 16,500 |  |


| Oct. | 19 | $* 10,100$ |
| :--- | :--- | ---: |
| Nov. | 23 | $* 6,830$ |
| Dec. | 29 | $* 5,400$ |
| Mar. | 22 | $* 17,900$ |
| Apr. | 26 | $* 27,700$ |
| May | 24 | $* 14,800$ |
| June | 21 | $* 6,230$ |
| July | 26 | $* 8,030$ |
| Aug. | 23 | $* 12,400$ |
| Sept. | 28 | $* 15,900$ |

Whi.- 37 Big Creek near Watkins Corner, Ark.

| Oct. | 27 | $b * 400$ |
| :--- | :--- | :--- |
| Nov. | 15 | $b * 180$ |
| Dec. | 14 | $b * 230$ |
| Jan. | 24 | $b * 980$ |

$a_{\text {Accuracy }}$ of measurement fair.
${ }^{6}$ Accuracy of measurement poor.
*Daily mean discharge.

Table 1.--Discharge at monitowing stations--Continued
[Al1 discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily mean]

Water year October 1976 to Septenber 1977



| Oct. 13 | 1.4 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Nov. 17 | 25 | 0ct. | 13 | 23,100 |
| Dec. 21 | 46 | Nov. | 17 | 1,740 |
| Feb. 16 | *227 | Dec. | 21 | 7,560 |
| Mar. 21 | *227 | Jan. | 17 | 23,300 |
| Apr. 20 | *292 | Feb. | 16 | 20,100 |
| May 18 | *67 | Mar. | 21 | 9,960 |
| June 15 | 6.9 | Apr. | 20 | 11,200 |
| July 18 | *4.4 | May | 18 | 50 |
| Aug. 9 | *6. 7 | June | 15 | 50 |
| Sept. 19 | *48 | July | 18 | 50 |

Accuracy of measurement fair.
bAccuracy of measurement poor.
*Daily mean discharge.

Table 1.--Discharge at monituring stations--Continued
[A1] discharges are in cubic feet per second and are instantaneous except those shown by asterisks, which are daily mean]

| Date | Discharge | Date | Discharge | Date | Discharge |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Whi.-52 White River near Goshen, Ark. |  |  |  |  |  |
| Oct. 19 <br> Nov. 23 <br> Jan. 26 <br> Feb. 15 <br> Mar. 16 <br> Apr. 19 <br> May 17 <br> June 14 <br> July 19 <br> Aug. 16 <br> Sept. 20 | $\begin{gathered} 16 \\ 63 \\ 54 \\ 348 \\ 632 \\ 129 \\ 18 \\ 21 \\ 7.6 \\ 43.0 \\ 213 \end{gathered}$ |  |  |  |  |

Table 2.--Discharge at monitoring stations
[A11 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., S.t. Francis]

Pr
[A]1 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--miscel1aneous dates


[^4]Table 2.--Discharge at monitoring stations-- Continued
[Al] 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


| Jan. | 20 | $* 2,300$ |
| :--- | :--- | ---: |
| Feb. | 17 | $* 2,500$ |
| Apr. | 19 | $* 2,300$ |
| May | 18 | $* 11,000$ |
| June | 15 | $* 2,300$ |
| July. | 20 | $* 1,600$ |
| Aug. | 17 | $* 3,400$ |
| Sept. 21 | $* 2,800$ |  |

[^5]*Daily mean discharge.
[Al] 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

${ }^{\text {b Revised }}$ discharge from 1976 Water Year Report.
*Daily mean discharge. 17



[^0]:    ${ }^{a_{\text {Accuracy }}}$ of measurement fair.
    *Daily mean discharge.

[^1]:    ${ }^{b}$ Accuracy of measurement poor.
    *Daily mean discharge.

[^2]:    ${ }^{a}$ Accuracy of measurement fair.
    *Daily mean discharge.

[^3]:    ${ }^{a}$ Accuracy of measurement fair.
    ${ }^{6}$ Accuracy of measurement poor.
    ${ }^{\text {Cpossible backwater effect at all stages. }}$
    *Daily mean discharge.

[^4]:    ${ }^{\text {accuracy of }}$ of measurement poor.
    *Daily mean discharge.

[^5]:    a Accuracy of measurement poor.

