07029500 HATCHIE RIVER AT BOLIVAR, TN

LOCATION.--Lat 35°16'30", long 88°58'35", Hardeman County, Hydrologic Unit 08010208, on left bank 25 ft upstream from bridge on State Highway 18, 250 ft upstream from Illinois Central Gulf Railroad bridge, 0.6 mi downstream from Spring Creek, 1.5 mi northeast of Bolivar, and at mile 135.1.

DRAINAGE AREA.--1,480 mi^2.

PERIOD OF RECORD.--July 1929 to current year.

GAGE.--Data collection platform. Datum of gage is 323.49 ft above NGVD of 1929, determined using benchmark Q-64, April 14, 1966.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 9	1115	*17,700	*17.72	No other peak greater than base discharge.			

Minimum discharge, 430 ft^3/s, Sept. 30.

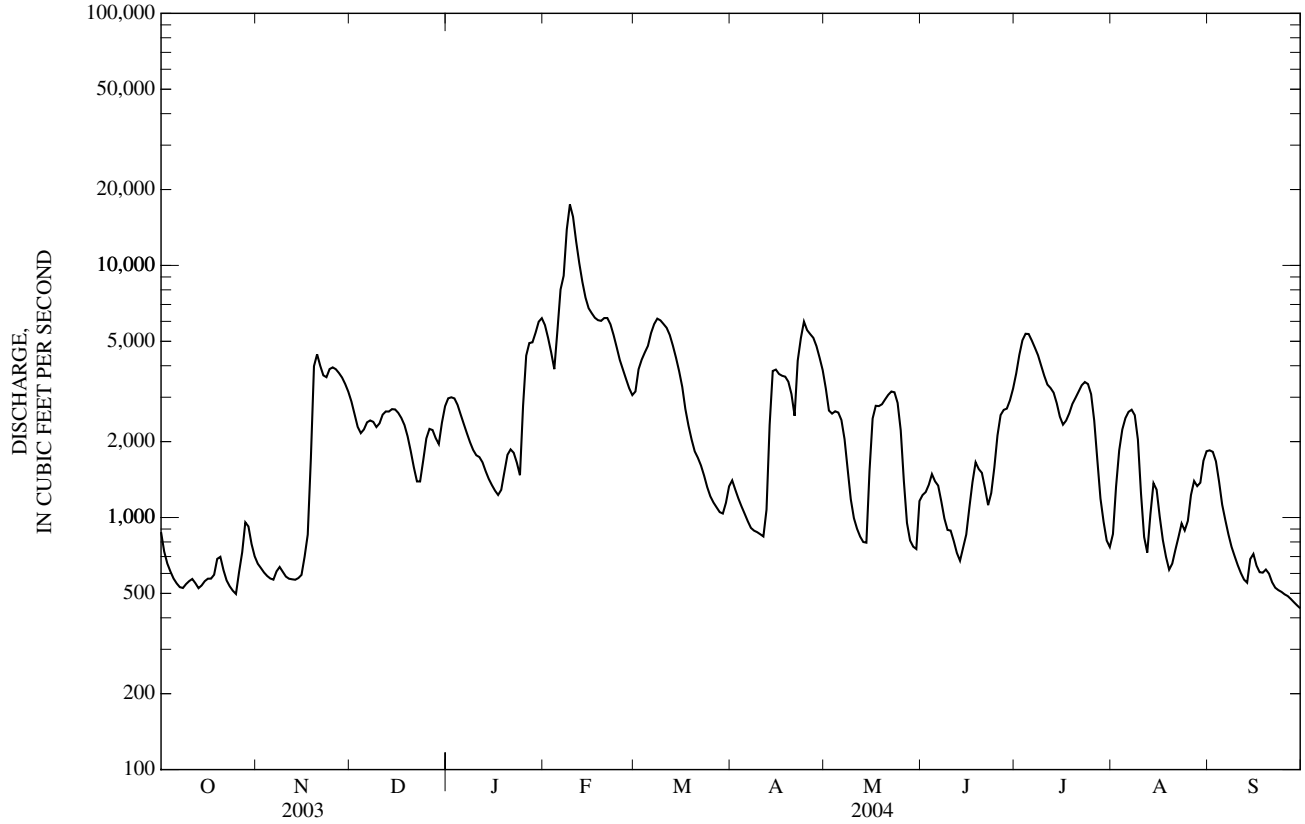
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	875	656	2,880	2,970	5,800	3,160	1,400	3,250	1,230	3,730	860	1,850
2	734	630	2,570	3,000	5,160	3,870	1,290	2,660	1,260	4,420	1,330	1,820
3	657	605	2,290	2,970	4,520	4,230	1,190	2,580	1,350	5,050	1,840	1,670
4	610	586	2,160	2,800	3,880	4,510	1,110	2,640	1,490	5,360	2,230	1,390
5	573	573	2,240	2,560	5,510	4,800	1,030	2,610	1,390	5,340	2,480	1,120
6	548	567	2,380	2,350	8,020	5,390	966	2,440	1,340	5,040	2,620	978
7	529	611	2,430	2,160	9,100	5,850	910	2,050	1,160	4,710	2,680	858
8	525	637	2,390	1,990	13,900	6,150	887	1,550	991	4,400	2,550	765
9	544	609	2,280	1,850	17,400	6,050	875	1,180	893	4,010	2,040	702
10	559	583	2,360	1,770	15,600	5,860	858	994	887	3,650	1,240	647
11	571	572	2,560	1,740	12,500	5,650	841	903	806	3,370	837	602
12	549	569	2,630	1,660	10,200	5,300	1,070	840	723	3,260	726	567
13	524	566	2,630	1,530	8,600	4,800	2,330	800	674	3,130	1,030	551
14	538	575	2,690	1,420	7,450	4,300	3,810	795	760	2,840	1,370	684
15	559	592	2,680	1,340	6,760	3,800	3,860	1,530	856	2,510	1,290	717
16	572	700	2,600	1,280	6,460	3,300	3,710	2,470	1,100	2,330	1,010	644
17	572	856	2,480	1,230	6,200	2,690	3,650	2,770	1,380	2,420	813	607
18	593	1,710	2,330	1,290	6,070	2,310	3,620	2,770	1,660	2,590	698	604
19	685	3,990	2,100	1,510	6,030	2,040	3,460	2,810	1,560	2,820	621	622
20	698	4,440	1,830	1,770	6,180	1,830	3,090	2,940	1,500	2,980	656	599
21	619	4,000	1,580	1,860	6,180	1,730	2,530	3,070	1,310	3,160	744	553
22	563	3,660	1,390	1,810	5,840	1,610	4,190	3,160	1,120	3,350	836	527
23	534	3,600	1,390	1,650	5,300	1,470	5,150	3,140	1,250	3,450	947	515
24	512	3,880	1,680	1,470	4,730	1,320	5,990	2,850	1,580	3,380	888	507
25	497	3,940	2,060	2,780	4,210	1,210	5,540	2,220	2,120	3,090	969	496
26	608	3,870	2,250	4,390	3,860	1,150	5,340	1,400	2,550	2,420	1,230	488
27	728	3,740	2,220	4,920	3,540	1,100	5,160	952	2,670	1,690	1,400	475
28	957	3,590	2,060	4,950	3,250	1,050	4,780	811	2,700	1,190	1,330	461
29	922	3,390	1,960	5,410	3,060	1,040	4,310	766	2,920	962	1,370	448
30	785	3,160	2,380	5,980	---	1,140	3,840	750	3,250	810	1,680	436
31	702	---	2,760	6,180	---	1,330	---	1,160	---	764	1,830	---
TOTAL	19,442	57,457	70,240	80,590	205,310	100,040	86,787	60,861	44,480	98,226	42,145	22,903
MEAN	627	1,915	2,266	2,600	7,080	3,227	2,893	1,963	1,483	3,169	1,360	763
MAX	957	4,440	2,880	6,180	17,400	6,150	5,990	3,250	3,250	5,360	2,680	1,850
MIN	497	566	1,390	1,230	3,060	1,040	841	750	674	764	621	436
CFSM	0.42	1.29	1.53	1.76	4.78	2.18	1.95	1.33	1.00	2.14	0.92	0.52
IN.	0.49	1.44	1.77	2.03	5.16	2.51	2.18	1.53	1.12	2.47	1.06	0.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2004, BY WATER YEAR (WY)

MEAN	845	1,691	3,302	4,442	4,790	4,573	3,905	2,739	1,442	954	647	729
MAX	7,401	7,457	12,490	13,420	14,060	12,110	10,960	13,540	8,181	5,933	2,678	4,651
(WY)	(2003)	(1958)	(1983)	(1974)	(1948)	(1973)	(1979)	(1991)	(1997)	(1932)	(1931)	(1979)
MIN	150	233	422	555	829	1,053	711	444	209	189	193	127
(WY)	(1957)	(1957)	(1955)	(1955)	(1934)	(1941)	(1986)	(1942)	(1941)	(1943)	(1954)	(1956)

07029500 HATCHIE RIVER AT BOLIVAR, TN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1929 - 2004	
ANNUAL TOTAL	1,049,300		888,481			
ANNUAL MEAN	2,875		2,428		2,493	
HIGHEST ANNUAL MEAN					5,003	1973
LOWEST ANNUAL MEAN					971	1941
HIGHEST DAILY MEAN	15,800	May 9	17,400	Feb 9	59,300	Mar 18, 1973
LOWEST DAILY MEAN	388	Sep 21	436	Sep 30	80	Sep 1, 1943
ANNUAL SEVEN-DAY MINIMUM	417	Sep 15	473	Sep 24	85	Aug 26, 1943
MAXIMUM PEAK FLOW					a61,600	Mar 18, 1973
MAXIMUM PEAK STAGE					21.66	Mar 18, 1973
INSTANTANEOUS LOW FLOW					78	Sep 2, 1943
ANNUAL RUNOFF (CFSM)	1.94		1.64		1.68	
ANNUAL RUNOFF (INCHES)	26.37		22.33		22.89	
10 PERCENT EXCEEDS	6,510		5,160		6,090	
50 PERCENT EXCEEDS	1,940		1,790		1,140	
90 PERCENT EXCEEDS	572		585		275	

a From rating curve extended above 37,000 ft^3/s.