03409500 CLEAR FORK NEAR ROBBINS, TN

LOCATION.--Lat 36°23'17", long 84°37'48", Scott County, Hydrologic Unit 05130104, on right bank 300 ft downstream from Burnt Mill Bridge, 3.3 mi northwest of Robbins, and at mile 3.7.

DRAINAGE AREA.--272 mi^2.

PERIOD OF RECORD.--October 1930 to September 1971, July 1975 to September 1991, October 1991 to September 1998, stage only, October 1998 to current year. Published as Clear Fork River near Robbins, October 1951 to September 1954.

REVISED RECORDS.--WSP 1306: 1931(M), 1936-37(M), 1943-44(M). WSP 1436: Drainage area. WSP 1910: 1935(M).

GAGE.--Data collection platform. Datum of gage is 1,081.46 ft, Sandy Hook datum. Prior to Aug. 10, 1940, nonrecording gage at site 300 ft upstream at datum 1.00 ft higher.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 23, 1929 reached a stage of 22.1 ft, former site and datum, from information by local residents, and flood of May 27, 1973, reached a stage of 18.92 ft, present site and datum, from floodmark; discharge 35,700 ft^3/s, from rating curve extended above 14,000 ft^3/s, on basis of slope-area measurement at gage height 18.5 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 6	1030	*23,700	*15.82	Sep 17	1530	21,400	15.13
Mar 6	1030	11,700	11.64				

Minimum discharge, 25 ft^3/s, Aug. 20, 21.

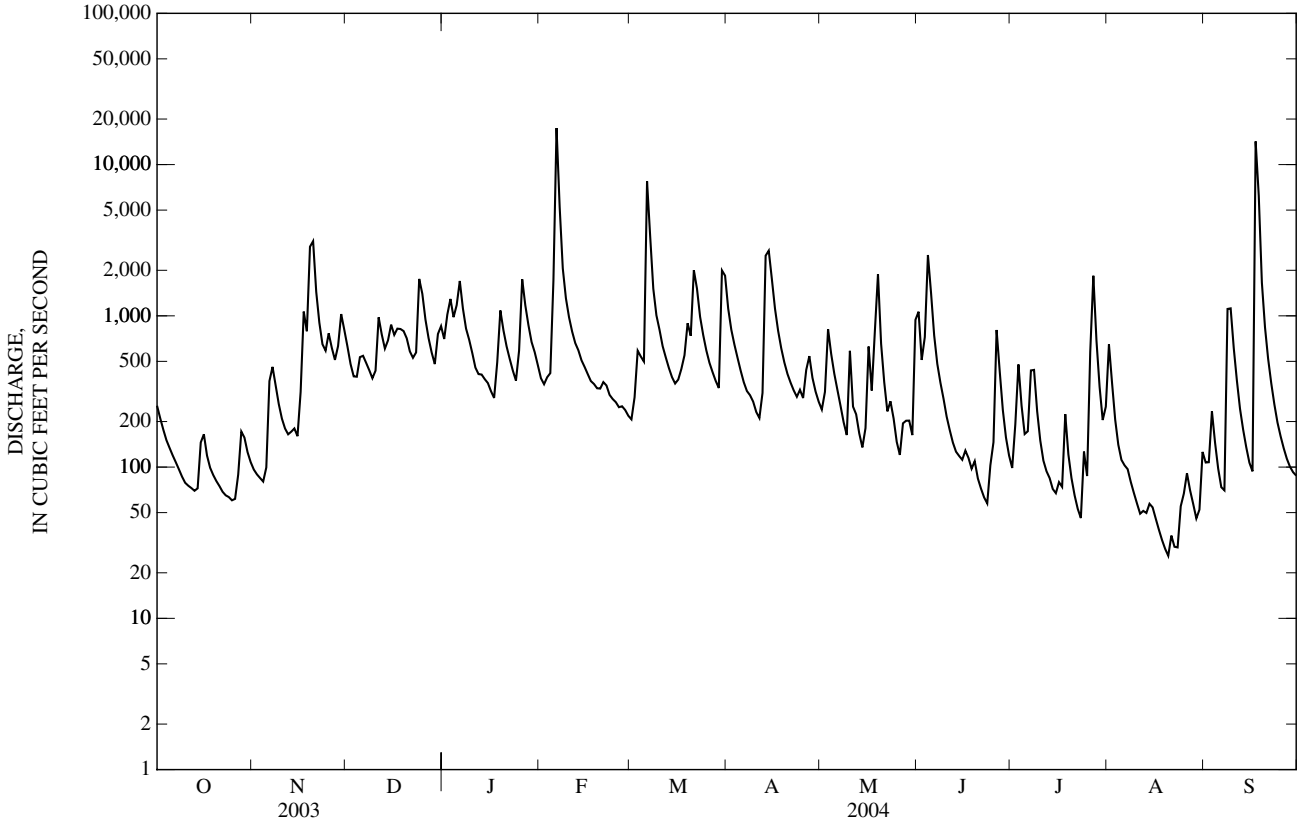
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	96	628	703	387	207	1,120	240	1,070	99	647	107
2	211	89	480	1,020	353	289	809	314	511	192	359	108
3	177	85	398	1,290	393	588	644	816	724	477	206	234
4	151	80	396	980	418	538	527	560	2,520	255	140	145
5	134	99	533	1,180	1,710	498	434	414	1,420	165	112	98
6	120	370	544	1,700	17,400	7,760	364	324	743	173	103	74
7	108	460	488	1,120	5,250	3,360	318	254	481	436	97	70
8	97	346	437	824	2,060	1,510	299	198	362	439	80	1,110
9	86	261	387	695	1,310	1,010	271	163	283	234	67	1,120
10	79	209	434	568	979	808	231	587	216	150	57	611
11	75	180	977	455	787	630	211	251	175	110	49	373
12	73	165	752	412	660	531	309	223	145	94	51	243
13	70	171	607	409	591	452	2,500	167	126	85	50	177
14	72	180	689	381	508	393	2,700	135	118	72	57	135
15	146	160	874	359	459	357	1,750	181	112	67	54	107
16	165	314	749	318	412	379	1,120	627	129	80	46	94
17	119	1,070	823	287	370	446	797	321	115	74	39	14,200
18	99	791	818	494	354	549	610	792	98	224	33	6,230
19	89	2,860	793	1,080	332	893	492	1,890	109	121	29	1,660
20	81	3,120	711	800	330	738	413	654	84	85	26	841
21	75	1,440	582	628	365	2,000	362	364	72	65	35	521
22	69	902	528	519	346	1,510	321	234	63	53	30	359
23	65	649	573	434	300	985	292	272	58	46	29	260
24	63	589	1,750	373	282	747	324	209	103	127	55	197
25	60	766	1,400	588	269	591	286	147	146	87	67	160
26	62	614	945	1,740	249	489	439	120	806	574	91	133
27	89	511	712	1,170	252	424	542	195	430	1,840	70	114
28	172	631	571	866	238	371	389	203	238	687	57	101
29	157	1,030	480	671	218	333	316	203	157	340	46	93
30	125	807	759	575	---	2,000	270	163	119	205	52	88
31	108	---	855	472	---	1,840	---	940	---	251	126	---
TOTAL	3,451	19,045	21,673	23,111	37,582	33,226	19,460	12,161	11,733	7,907	2,960	29,763
MEAN	111	635	699	746	1,296	1,072	649	392	391	255	95.5	992
MAX	254	3,120	1,750	1,740	17,400	7,760	2,700	1,890	2,520	1,840	647	14,200
MIN	60	80	387	287	218	207	211	120	58	46	26	70
CFSM	0.41	2.33	2.57	2.74	4.76	3.94	2.38	1.44	1.44	0.94	0.35	3.65
IN.	0.47	2.60	2.96	3.16	5.14	4.54	2.66	1.66	1.60	1.08	0.40	4.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2004, BY WATER YEAR (WY)

MEAN	91.4	297	651	905	1,051	990	734	474	220	160	101	125
MAX	747	1,303	2,470	3,418	2,794	2,757	1,968	2,043	1,742	1,122	940	1,258
(WY)	(1990)	(1958)	(1991)	(1937)	(1939)	(1963)	(1977)	(1984)	(1989)	(1967)	(1971)	(2003)
MIN	1.84	4.97	28.6	32.4	141	298	152	64.1	8.29	6.40	8.07	2.92
(WY)	(1954)	(1954)	(1964)	(1981)	(1941)	(2003)	(1942)	(1948)	(1988)	(1944)	(1987)	(1953)

03409500 CLEAR FORK NEAR ROBBINS, TN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1931 - 2004	
ANNUAL TOTAL	286,119		222,072			
ANNUAL MEAN	784		607		481	
HIGHEST ANNUAL MEAN					864	1989
LOWEST ANNUAL MEAN					215	1931
HIGHEST DAILY MEAN	16,300	Feb 16	17,400	Feb 6	a24,800	Dec 23, 1990
LOWEST DAILY MEAN	14	Aug 30	26	Aug 20	0.20	Sep 20, 1932
ANNUAL SEVEN-DAY MINIMUM	20	Aug 24	32	Aug 17	0.51	Sep 15, 1932
MAXIMUM PEAK FLOW			23,700	Feb 6	a34,000	Feb 3, 1939
MAXIMUM PEAK STAGE			15.82	Feb 6	b18.50	Feb 3, 1939
INSTANTANEOUS LOW FLOW			c25	Aug 20	d0.20	Sep 19, 1932
ANNUAL RUNOFF (CFSM)	2.88		2.23		1.77	
ANNUAL RUNOFF (INCHES)	39.13		30.37		24.01	
10 PERCENT EXCEEDS	1,480		1,110		1,110	
50 PERCENT EXCEEDS	265		332		163	
90 PERCENT EXCEEDS	62		72		11	

a Highest daily mean and instantaneous peak flows from rating curve extended above 14,000 ft^3/s on basis of slope-area measurement of peak flow.
b Maximum stage from floodmarks, site and datum then in use.
c Also occurred August 21.
d Also occurred Sept. 20, 21, 1932.