03571000 SEQUATCHIE RIVER NEAR WHITWELL, TN

LOCATION.--Lat 35°12'23", long 85°29'49", Marion County, Hydrologic Unit 06020004, on right bank 250 ft upstream from county road bridge, 1.5 mi east of Whitwell, 3.0 mi upstream from bridge on State Highway 283, 4.5 mi downstream from Griffith Creek, and at mile 25.1.

DRAINAGE AREA.--402 mi^2, includes 18 mi^2 without surface drainagae.

PERIOD OF RECORD.--October 1920 to September 1994, October 1, 2001 to September 30, 2002. Prior to December 1920, monthly discharges only, published in WSP 1306.

REVISED RECORD.--WSP 603: 1922(M). WSP 758: 1929(M). WSP 1033: 1943(M). WSP 1386: 1921-22, 1923-25(M), 1927-28(M), 1930(M), 1933(M). WSP 1910: Drainagae area. WDR TN-76-1: 1973-75(P).

GAGE.--Data collection platform. Datum of gage is 632.73 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to Sept. 18, 1927, nonrecording gage at same datum 0.03 ft higher. Sept. 18, 1927, to Sept. 30, 1930, nonrecording gage at bridge 15 ft upstream at present datum.

REMARKS.--No estimated daily discharges. Records fair. Prior to 1950, some diurnal fluctuation caused by small mills above station. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1867 reached a stage of about 19 ft from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 7	0100	15,600	15.35	Sep 18	0100	*18,400	*15.81
Mar 6	2345	10,200	14.33				

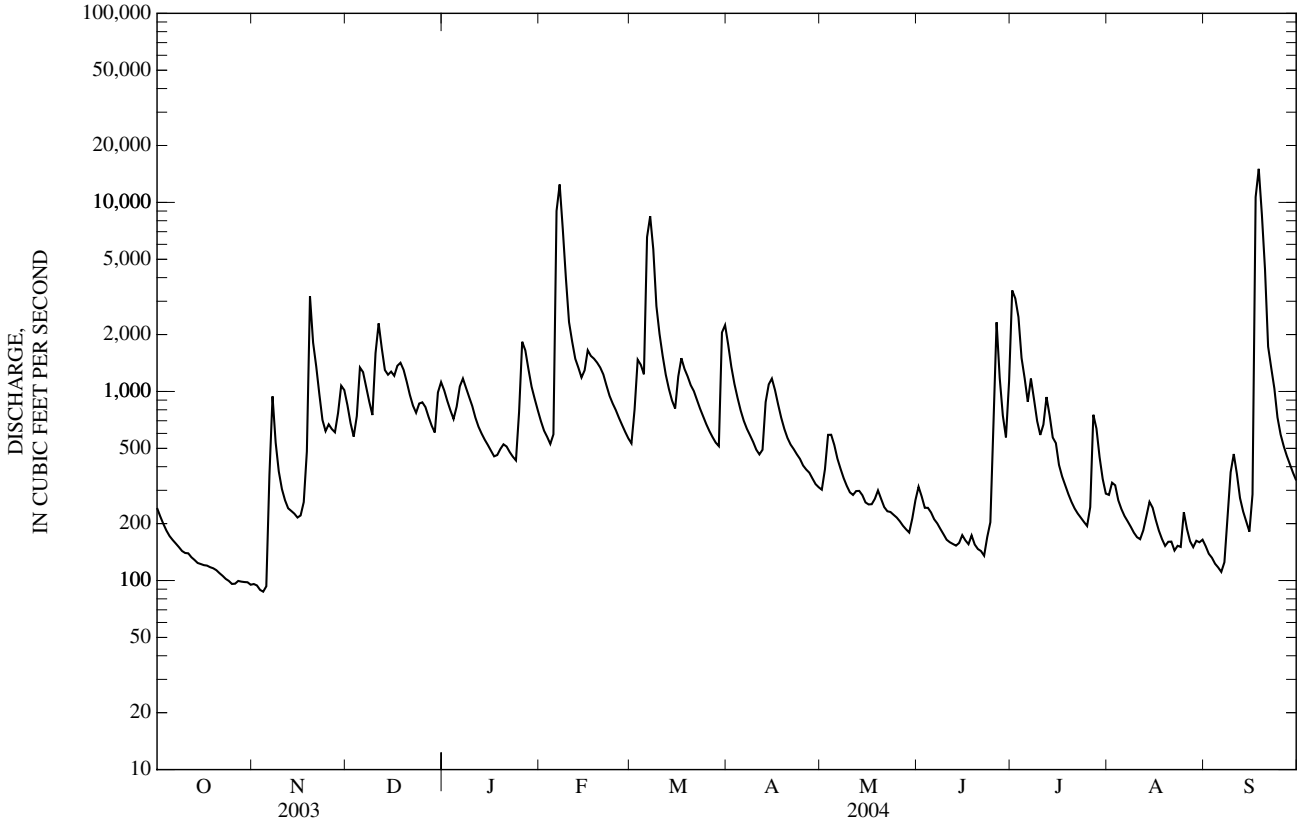
Minimum discharge, 86 ft^3/s, Nov. 4.

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	242	96	847	1,010	696	532	1,770	302	313	3,420	284	152
2	219	94	679	891	620	802	1,350	388	278	3,100	329	139
3	200	89	577	794	575	1,470	1,100	589	242	2,480	319	132
4	184	87	741	715	528	1,380	925	590	242	1,500	266	123
5	172	93	1,340	832	593	1,230	793	521	229	1,170	239	117
6	164	361	1,270	1,060	9,010	6,550	699	441	211	882	219	111
7	157	942	1,060	1,170	12,400	8,450	634	390	200	1,170	206	125
8	150	536	881	1,040	7,230	5,650	586	348	187	907	192	216
9	143	378	750	934	3,970	2,830	541	317	176	697	179	374
10	140	305	1,590	837	2,330	2,010	492	293	164	589	170	467
11	139	266	2,290	727	1,840	1,550	464	283	159	668	165	366
12	133	241	1,690	651	1,490	1,230	491	297	156	934	184	273
13	129	233	1,300	598	1,340	1,030	879	298	153	746	219	232
14	124	226	1,230	555	1,190	896	1,090	283	158	571	261	205
15	122	215	1,270	521	1,290	812	1,170	259	174	533	243	181
16	121	221	1,210	486	1,650	1,200	1,020	253	163	409	209	286
17	120	260	1,370	454	1,540	1,500	854	253	156	355	184	10,700
18	118	481	1,420	461	1,490	1,320	725	271	173	319	166	15,100
19	116	3,180	1,300	496	1,420	1,200	633	300	155	286	152	8,630
20	113	1,810	1,130	525	1,340	1,080	568	270	147	261	160	4,430
21	109	1,360	960	511	1,230	1,000	524	245	143	241	161	1,730
22	106	967	841	478	1,080	902	495	232	135	226	144	1,330
23	102	707	771	452	947	810	465	230	170	215	153	1,040
24	100	617	863	432	863	737	440	223	203	204	151	729
25	96	670	876	778	797	670	406	215	677	194	230	593
26	96	632	827	1,830	725	617	386	206	2,320	244	187	514
27	100	608	733	1,650	665	573	372	195	1,180	753	161	456
28	99	770	659	1,310	611	536	346	187	746	636	150	411
29	98	1,070	607	1,060	565	514	323	179	572	449	162	371
30	98	1,020	988	914	---	2,050	311	213	1,130	345	159	339
31	95	---	1,120	794	---	2,240	---	267	---	288	164	---
TOTAL	4,105	18,535	33,190	24,966	60,025	53,371	20,852	9,338	11,112	24,792	6,168	49,872
MEAN	132	618	1,071	805	2,070	1,722	695	301	370	800	199	1,662
MAX	242	3,180	2,290	1,830	12,400	8,450	1,770	590	2,320	3,420	329	15,100
MIN	95	87	577	432	528	514	311	179	135	194	144	111
CFSM	0.34	1.61	2.79	2.10	5.39	4.48	1.81	0.78	0.96	2.08	0.52	4.33
IN.	0.40	1.80	3.22	2.42	5.81	5.17	2.02	0.90	1.08	2.40	0.60	4.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2004, BY WATER YEAR (WY)

MEAN	182	468	1,023	1,353	1,589	1,635	1,222	718	363	294	208	191
MAX	1,626	3,471	3,935	3,736	4,126	3,508	3,449	4,116	2,381	1,770	863	1,662
(WY)	(1990)	(1958)	(1991)	(1937)	(1994)	(1973)	(1994)	(2003)	(1928)	(1989)	(1926)	(2004)
MIN	27.1	32.4	51.9	74.0	271	364	228	179	71.6	68.6	46.9	23.1
(WY)	(1932)	(1932)	(1940)	(1981)	(1941)	(1988)	(1986)	(1941)	(1988)	(1986)	(1957)	(1925)

03571000 SEQUATCHIE RIVER NEAR WHITWELL, TN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1921 - 2004	
ANNUAL TOTAL	423,232		316,326			
ANNUAL MEAN	1,160		864		767	
HIGHEST ANNUAL MEAN					1,284	1973
LOWEST ANNUAL MEAN					305	1981
HIGHEST DAILY MEAN	26,400	May 7	15,100	Sep 18	32,300	Dec 23, 1990
LOWEST DAILY MEAN	87	Nov 4	87	Nov 4	16	Sep 6, 1925
ANNUAL SEVEN-DAY MINIMUM	93	Oct 30	93	Oct 30	18	Sep 6, 1925
MAXIMUM PEAK FLOW			18,400	Sep 18	35,400	Dec 23, 1990
MAXIMUM PEAK STAGE			15.81	Sep 18	18.02	Dec 23, 1990
INSTANTANEOUS LOW FLOW			86	Nov 4	16	Sep 6, 1925
ANNUAL RUNOFF (CFSM)	3.02		2.25		2.00	
ANNUAL RUNOFF (INCHES)	41.00		30.64		27.12	
10 PERCENT EXCEEDS	2,200		1,490		1,770	
50 PERCENT EXCEEDS	522		504		344	
90 PERCENT EXCEEDS	149		144		62