03570835 SEQUATCHIE RIVER NEAR DULAP, TN

LOCATION.--Lat 35°21'34", long 85°22'20", Sequatchie County, Hydrologic Unit 06020004, on downstream side of bridge on Old York Highway near Dunlap, and at mile 44.7.

DRAINAGE AREA.--292 mi^2.

PERIOD OF RECORD.--July to September 2003.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 675.551 ft above NGVD of 1929 (levels based on information provided by City of Dunlap).

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT PERIOD.--July to September 2003: Maximum discharge during period 1,800 ft^3/s, July 2, gage height, 6.93 ft; minimum discharge, 85 ft^3/s, Sept. 20, 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	395	214	113
2	---	---	---	---	---	---	---	---	---	1,210	255	109
3	---	---	---	---	---	---	---	---	---	674	223	106
4	---	---	---	---	---	---	---	---	---	594	219	151
5	---	---	---	---	---	---	---	---	---	447	285	147
6	---	---	---	---	---	---	---	---	---	595	319	173
7	---	---	---	---	---	---	---	---	---	742	389	149
8	---	---	---	---	---	---	---	---	---	627	383	132
9	---	---	---	---	---	---	---	---	---	462	436	121
10	---	---	---	---	---	---	---	---	---	428	358	115
11	---	---	---	---	---	---	---	---	---	496	318	109
12	---	---	---	---	---	---	---	---	---	461	317	105
13	---	---	---	---	---	---	---	---	---	524	393	101
14	---	---	---	---	---	---	---	---	---	531	424	100
15	---	---	---	---	---	---	---	---	---	394	323	99
16	---	---	---	---	---	---	---	---	---	376	305	95
17	---	---	---	---	---	---	---	---	---	477	262	93
18	---	---	---	---	---	---	---	---	---	367	230	90
19	---	---	---	---	---	---	---	---	---	290	206	88
20	---	---	---	---	---	---	---	---	---	245	188	87
21	---	---	---	---	---	---	---	---	---	217	174	85
22	---	---	---	---	---	---	---	---	---	647	165	402
23	---	---	---	---	---	---	---	---	---	960	162	541
24	---	---	---	---	---	---	---	---	---	638	156	441
25	---	---	---	---	---	---	---	---	---	431	146	354
26	---	---	---	---	---	---	---	---	---	332	141	215
27	---	---	---	---	---	---	---	---	---	275	133	222
28	---	---	---	---	---	---	---	---	---	241	128	396
29	---	---	---	---	---	---	---	---	---	221	124	241
30	---	---	---	---	---	---	---	---	---	206	121	191
31	---	---	---	---	---	---	---	---	---	204	117	---
TOTAL	---	---	---	---	---	---	---	---	---	14,707	7,614	5,371
MEAN	---	---	---	---	---	---	---	---	---	474	246	179
MAX	---	---	---	---	---	---	---	---	---	1,210	436	541
MIN	---	---	---	---	---	---	---	---	---	204	117	85
CFSM	---	---	---	---	---	---	---	---	---	1.62	0.84	0.61
IN.	---	---	---	---	---	---	---	---	---	1.87	0.97	0.68

THIS PAGE IS INTENTIONALLY BLANK

03571000 SEQUATCHIE RIVER NEAR WHITWELL, TN

LOCATION.--Lat 35°12'22", long 85°29'48", 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 discharge. Records good. 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 16	1530	25,400	16.72	May 6	2000	*33,400	*17.76
Feb 23	0545	7,030	13.51	May 9	2000	10,400	14.37

Minimum discharge, 112 ft^3/s, Oct. 27, 28.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244	382	257	894	1,200	2,660	442	538	533	513	307	174
2	204	336	246	841	948	2,140	434	548	487	2,460	337	169
3	166	297	237	781	798	1,760	418	479	462	1,360	338	164
4	147	280	241	711	791	1,480	402	461	443	1,120	308	210
5	154	535	1,010	655	827	1,290	449	1,810	411	741	347	273
6	182	2,120	1,980	605	797	1,300	568	21,700	386	766	378	257
7	207	1,540	1,660	554	826	1,260	1,890	26,400	417	864	530	242
8	230	1,100	1,130	519	804	1,120	2,460	18,600	416	862	426	222
9	231	764	842	497	760	1,020	2,190	12,200	399	660	565	202
10	212	620	743	468	747	920	2,250	6,560	385	551	457	185
11	208	750	2,080	431	751	834	3,360	3,180	374	681	431	173
12	206	895	2,180	399	776	766	3,180	2,630	367	653	396	163
13	196	871	1,850	374	792	706	2,390	2,090	349	632	465	153
14	181	705	2,280	357	1,630	653	1,680	1,720	334	737	635	148
15	167	600	2,100	341	8,940	613	1,270	1,390	322	562	490	146
16	168	580	1,690	329	22,400	577	1,040	1,160	305	484	427	141
17	173	547	1,310	321	16,700	548	924	1,100	307	624	388	136
18	174	502	1,060	305	11,000	531	950	3,240	626	526	344	130
19	168	477	949	295	5,850	522	906	3,670	1,110	429	309	126
20	164	448	1,840	287	2,990	532	833	2,350	951	371	335	120
21	156	437	1,790	286	2,420	520	744	2,470	907	334	284	118
22	143	413	1,520	298	4,820	496	670	2,760	664	451	260	432
23	133	382	1,230	309	6,600	473	614	2,210	498	1,410	246	1,040
24	125	357	3,020	292	5,000	444	568	1,750	418	970	240	650
25	120	337	4,740	280	3,010	424	555	1,430	372	656	228	496
26	116	319	3,010	276	2,250	407	575	1,240	336	487	218	343
27	113	303	2,090	271	2,720	391	528	1,060	316	404	211	266
28	130	288	1,590	264	3,270	378	484	874	299	356	204	467
29	287	276	1,300	360	---	380	445	739	291	329	197	379
30	416	267	1,100	1,490	---	417	422	648	283	307	189	290
31	405	---	943	1,610	---	435	---	584	---	303	180	---
TOTAL	5,926	17,728	48,018	15,700	110,417	25,997	33,641	127,591	13,768	21,603	10,670	8,015
MEAN	191	591	1,549	506	3,943	839	1,121	4,116	459	697	344	267
MAX	416	2,120	4,740	1,610	22,400	2,660	3,360	26,400	1,110	2,460	635	1,040
MIN	113	267	237	264	747	378	402	461	283	303	180	118
CFSM	0.50	1.54	4.03	1.32	10.3	2.18	2.92	10.7	1.20	1.81	0.90	0.70
IN.	0.57	1.72	4.65	1.52	10.70	2.52	3.26	12.36	1.33	2.09	1.03	0.78

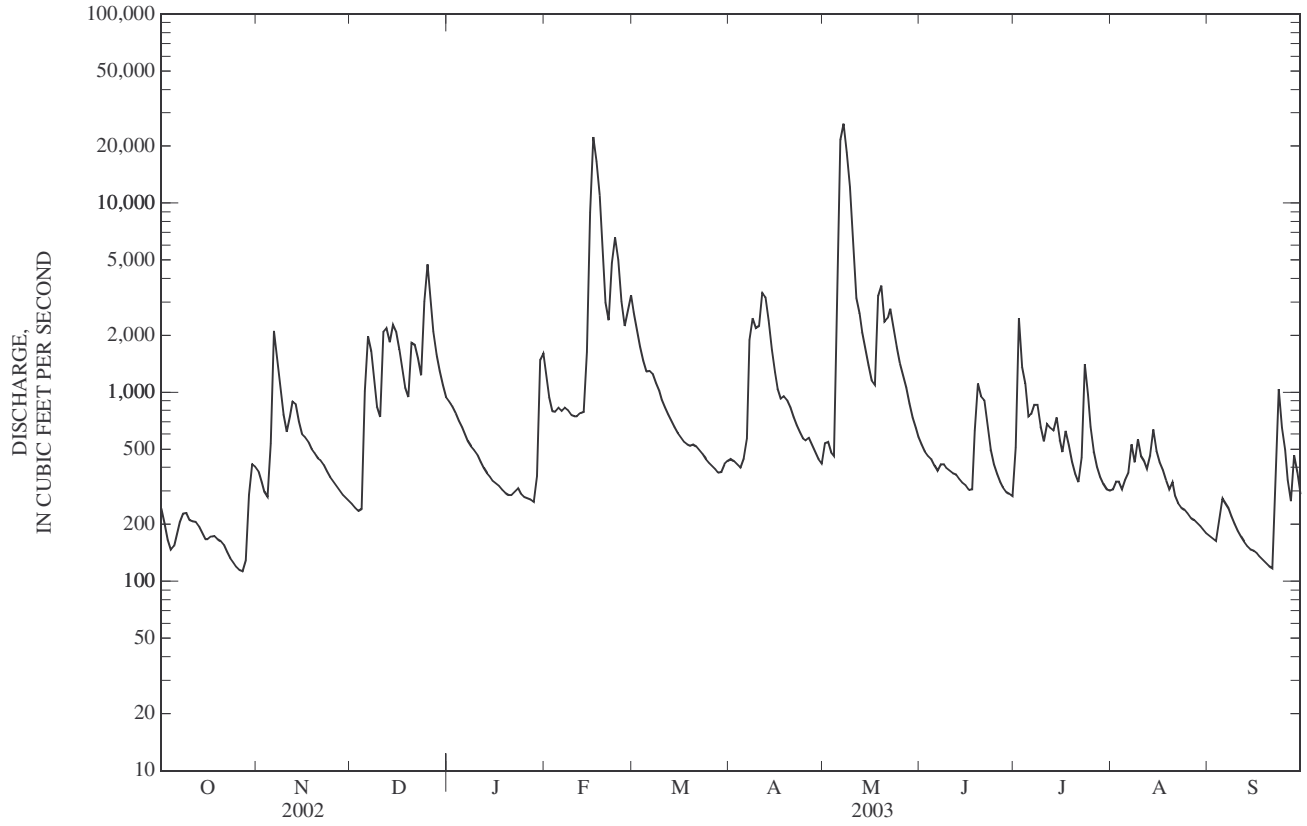
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2003, BY WATER YEAR (WY)

MEAN	183	467	1,023	1,360	1,583	1,634	1,228	723	363	288	208	171
MAX	1,626	3,471	3,935	3,736	4,126	3,508	3,449	4,116	2,381	1,770	863	1,152
(WY)	(1990)	(1958)	(1991)	(1937)	(1994)	(1973)	(1994)	(2003)	(1928)	(1989)	(1926)	(1950)
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1921 - 2003	
ANNUAL TOTAL	327,511		439,074			
ANNUAL MEAN	897		1,203		765	
HIGHEST ANNUAL MEAN					1,284	1973
LOWEST ANNUAL MEAN					305	1981
HIGHEST DAILY MEAN	17,900	Mar 19	26,400	May 7	32,300	Dec 23, 1990
LOWEST DAILY MEAN	38	Sep 12	113	Oct 27	16	Sep 6, 1925
ANNUAL SEVEN-DAY MINIMUM	39	Sep 11	126	Oct 22	18	Sep 6, 1925
MAXIMUM PEAK FLOW			33,400	May 6	35,400	Dec 23, 1990
MAXIMUM PEAK STAGE			17.76	May 6	18.02	Dec 23, 1990
INSTANTANEOUS LOW FLOW			a112	Oct 27	16	Sep 6, 1925
ANNUAL RUNOFF (CFSM)	2.34		3.13		1.99	
ANNUAL RUNOFF (INCHES)	31.73		42.54		27.08	
10 PERCENT EXCEEDS	1,860		2,250		1,770	
50 PERCENT EXCEEDS	337		498		342	
90 PERCENT EXCEEDS	63		193		62	

a Also occurred Oct. 28.



03578000 ELK RIVER NEAR PELHAM, TN

LOCATION.--Lat 35°17'48", long 85°52'12", Grundy County, Hydrologic Unit 06030003, on right bank at downstream side of bridge on U.S. Highway 41, 1.1 mi southeast of Pelham, 1.8 mi upstream from Caldwell Creek, and at mile 194.2.

DRAINAGE AREA.--65.6 mi^2.

PERIOD OF RECORD.--October 1951 to November 1987, November 2000 to current year.

REVISED RECORDS.--WRD TN 1973: 1963(P), 1965(M), 1966(P), 1969(M), 1970-71(P).

GAGE.--Data collection platform. Datum of gage is 980.99 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Gage at datum 0.63 ft higher prior to Nov. 30, 1987.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft^3/s, Mar. 16, 1973, gage height, 14.08 ft; minimum, 1.0 ft^3/s, Sept. 27, 28, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 15	0230	4,390	11.63	May 6	1430	*7,880	*12.72
Feb 16	0630	3,560	11.21	Jul 7	2130	2,060	10.15
Feb 22	1630	1,810	9.92	Jul 22	2230	2,040	10.13

Minimum daily discharge, 6.7 ft^3/s, Sept. 20.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	49	29	127	254	313	49	53	45	105	282	11
2	10	36	26	134	186	259	47	48	38	538	248	10
3	9.3	30	24	147	149	213	44	44	35	267	243	9.9
4	9.0	32	28	141	254	180	43	39	34	174	207	25
5	9.3	179	391	127	228	159	118	368	32	232	156	41
6	8.9	562	359	110	181	245	180	5,160	28	255	311	23
7	10	291	214	93	229	232	716	3,330	28	999	259	17
8	12	166	154	85	175	189	553	1,890	36	1,190	158	14
9	14	114	118	80	145	166	410	802	33	384	109	13
10	12	89	173	71	152	141	356	369	27	254	76	12
11	13	169	840	61	161	123	392	488	26	375	56	11
12	12	191	511	53	150	108	294	444	58	249	46	11
13	14	130	306	48	134	97	217	281	45	213	40	10
14	14	95	297	46	690	93	170	207	33	256	42	9.0
15	13	79	248	44	3,080	83	139	170	27	178	36	8.7
16	14	97	201	41	3,120	76	118	151	28	262	35	8.0
17	18	98	163	40	1,680	71	107	132	25	476	32	7.5
18	16	84	133	37	777	68	115	782	44	243	27	7.2
19	13	72	116	34	413	66	91	515	77	160	23	6.9
20	17	75	171	34	314	66	77	315	52	110	45	6.7
21	20	68	165	43	291	61	69	511	35	75	34	6.8
22	23	59	143	75	1,220	54	63	548	26	804	24	501
23	27	50	126	62	1,130	50	53	349	21	1,370	21	564
24	34	43	734	48	566	47	49	261	18	438	17	161
25	45	39	864	47	359	44	60	197	16	252	15	84
26	58	36	403	47	309	41	112	176	14	171	13	53
27	65	35	272	45	458	40	108	142	17	123	12	282
28	113	36	207	41	420	39	87	109	14	97	11	329
29	146	32	166	489	---	46	71	86	14	110	11	149
30	103	30	139	938	---	69	60	69	18	82	11	88
31	71	---	120	397	---	55	---	56	---	422	11	---
TOTAL	953.5	3,066	7,841	3,785	17,225	3,494	4,968	18,092	944	10,864	2,611	2,479.7
MEAN	30.8	102	253	122	615	113	166	584	31.5	350	84.2	82.7
MAX	146	562	864	938	3,120	313	716	5,160	77	1,370	311	564
MIN	8.9	30	24	34	134	39	43	39	14	75	11	6.7
CFSM	0.47	1.56	3.86	1.86	9.38	1.72	2.52	8.90	0.48	5.34	1.28	1.26
IN.	0.54	1.74	4.45	2.15	9.77	1.98	2.82	10.26	0.54	6.16	1.48	1.41

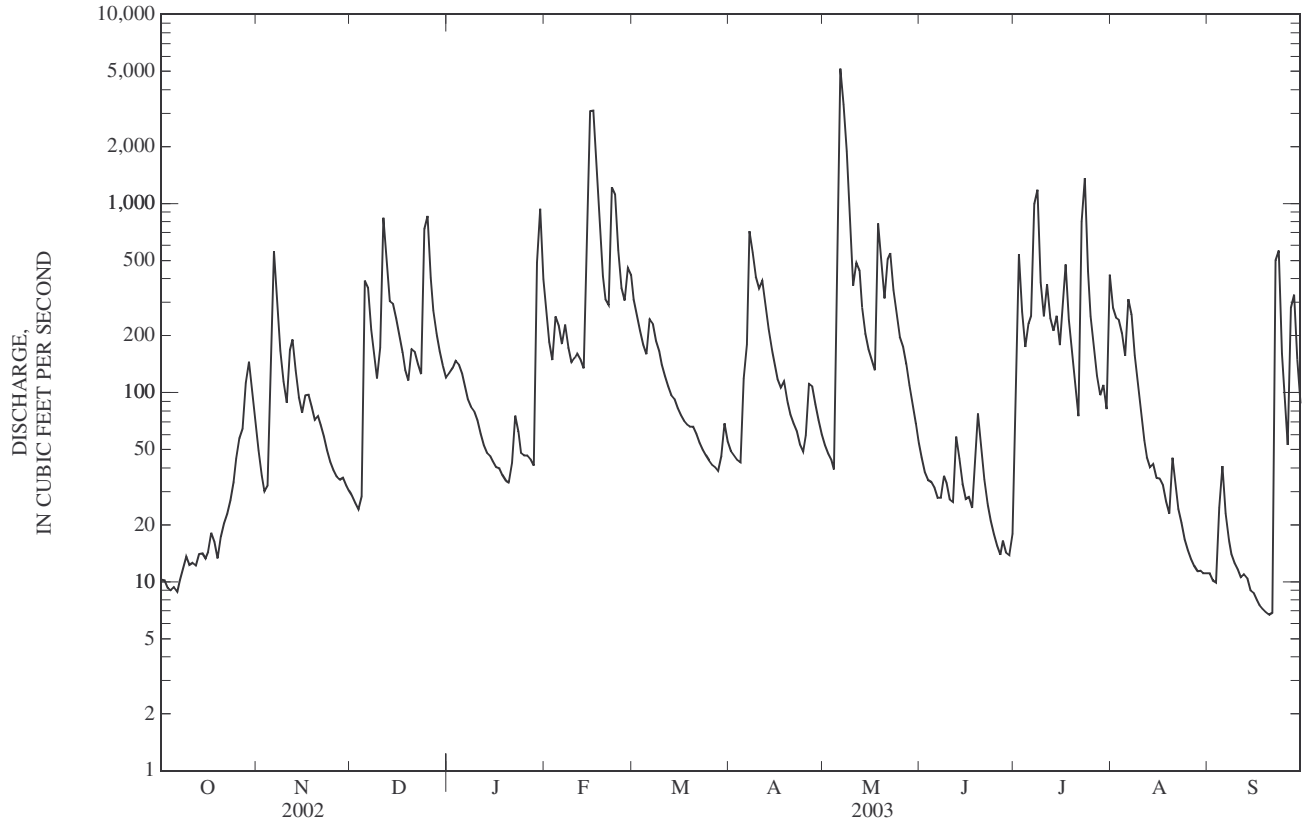
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2003, BY WATER YEAR (WY)

MEAN	42.4	115	211	245	271	280	220	152	43.0	42.6	30.6	26.8
MAX	341	562	475	679	615	707	522	584	178	350	168	174
(WY)	(1976)	(1958)	(1973)	(1974)	(2003)	(1973)	(1977)	(2003)	(1961)	(2003)	(2001)	(1979)
MIN	1.92	2.24	18.2	31.5	67.3	103	50.2	18.8	7.24	3.66	2.39	1.69
(WY)	(1979)	(1957)	(1964)	(1981)	(1968)	(1985)	(1986)	(1987)	(1982)	(1954)	(1980)	(1954)

03578000 ELK RIVER NEAR PELHAM, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1952 - 2003	
ANNUAL TOTAL	55,461.20		76,323.2			
ANNUAL MEAN	152		209		140	
HIGHEST ANNUAL MEAN					235	1973
LOWEST ANNUAL MEAN					61.3	1981
HIGHEST DAILY MEAN	2,930	Jan 24	5,160	May 6	8,800	Mar 16, 1973
LOWEST DAILY MEAN	1.3	Sep 13	6.7	Sep 20	1.0	Sep 27, 1954
ANNUAL SEVEN-DAY MINIMUM	1.8	Aug 8	7.4	Sep 15	1.2	Sep 23, 1954
MAXIMUM PEAK FLOW			7,880	May 6	15,800	Mar 16, 1973
MAXIMUM PEAK STAGE			12.72	May 6	a14.08	Mar 16, 1973
INSTANTANEOUS LOW FLOW					b1.0	Sep 27, 1954
ANNUAL RUNOFF (CFSM)	2.32		3.19		2.13	
ANNUAL RUNOFF (INCHES)	31.45		43.28		28.99	
10 PERCENT EXCEEDS	297		440		310	
50 PERCENT EXCEEDS	49		85		54	
90 PERCENT EXCEEDS	2.8		14		4.3	

a Previous datum
b Also occurred Sept. 28.



03579040 SPRING CREEK OFF SPRING CREEK ROAD AT AEDC NEAR MANCHESTER, TN

LOCATION.--Lat 35°18'16", long 86°07'13", Franklin County, Hydrologic Unit 06030003, on left downstream side of bridge, on Reservoir Road, 3.7 mi north of Estill Springs, 1.5 mi west-northwest of Elk River Dam, Woods Reservoir.

DRAINAGE AREA.--9.51 mi^2.

PERIOD OF RECORD.--February 2002 to February 2003 (discontinued). Occasional low-flow measurements, water year 1991.

GAGE.--Data logger.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 828 ft^3/s, Feb. 14, gage height, 6.41 ft; minimum discharge, 6.2 ft^3/s, Jan. 27.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO FEBRUARY 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	9.3	7.9	9.5	10	---	---	---	---	---	---	---
2	8.1	9.3	8.0	9.2	9.1	---	---	---	---	---	---	---
3	8.1	9.4	7.5	8.8	8.7	---	---	---	---	---	---	---
4	8.3	9.3	8.0	8.6	8.8	---	---	---	---	---	---	---
5	8.2	15	9.3	8.6	8.9	---	---	---	---	---	---	---
6	8.1	16	9.6	8.3	8.7	---	---	---	---	---	---	---
7	8.7	13	9.6	8.1	11	---	---	---	---	---	---	---
8	8.6	11	9.2	8.1	10	---	---	---	---	---	---	---
9	8.4	11	8.7	8.1	9.3	---	---	---	---	---	---	---
10	8.4	11	21	7.8	9.2	---	---	---	---	---	---	---
11	8.4	12	43	7.6	9.1	---	---	---	---	---	---	---
12	8.3	12	19	7.5	8.7	---	---	---	---	---	---	---
13	8.3	12	18	7.3	8.6	---	---	---	---	---	---	---
14	8.3	12	19	7.2	226	---	---	---	---	---	---	---
15	8.6	12	14	7.1	332	---	---	---	---	---	---	---
16	8.7	11	12	7.1	294	---	---	---	---	---	---	---
17	8.4	11	11	6.9	78	---	---	---	---	---	---	---
18	8.6	11	10	6.9	43	---	---	---	---	---	---	---
19	8.6	11	10	6.8	30	---	---	---	---	---	---	---
20	8.6	10	11	6.7	25	---	---	---	---	---	---	---
21	8.5	9.9	11	6.8	25	---	---	---	---	---	---	---
22	8.4	9.7	11	6.7	263	---	---	---	---	---	---	---
23	8.4	9.5	10	6.5	77	---	---	---	---	---	---	---
24	8.3	9.2	90	6.4	36	---	---	---	---	---	---	---
25	8.5	8.6	29	6.4	27	---	---	---	---	---	---	---
26	8.4	8.6	17	6.4	26	---	---	---	---	---	---	---
27	8.4	8.3	13	6.4	40	---	---	---	---	---	---	---
28	9.8	8.2	11	6.4	29	---	---	---	---	---	---	---
29	9.6	8.0	10	12	---	---	---	---	---	---	---	---
30	9.6	8.1	9.9	16	---	---	---	---	---	---	---	---
31	9.3	---	9.6	12	---	---	---	---	---	---	---	---
TOTAL	265.0	316.4	487.3	248.2	1,671.1	---	---	---	---	---	---	---
MEAN	8.55	10.5	15.7	8.01	59.7	---	---	---	---	---	---	---
MAX	9.8	16	90	16	332	---	---	---	---	---	---	---
MIN	8.1	8.0	7.5	6.4	8.6	---	---	---	---	---	---	---
CFSM	0.90	1.11	1.65	0.84	6.28	---	---	---	---	---	---	---
IN.	1.04	1.24	1.91	0.97	6.54	---	---	---	---	---	---	---

THIS PAGE IS INTENTIONALLY BLANK

03584020 RICHLAND CREEK AT HWY 64 NEAR PULASKI, TN

LOCATION.--Lat 35°12'39", long 87°06'01", Giles County, Hydrologic Unit 06030004, bridge on Highway 64, 4.1 miles west of Pulaski.

DRAINAGE AREA.--366 mi^2.

PERIOD OF RECORD.--April 27, 1934 to September 30, 1975 published as "near Pulaski", February 2001 to current year.

GAGE.--Data collection platform and pressure sensor. Datum of gage is 637.29 ft above NGVD of 1929. April 27, 1934 to September 30, 1975, recording at gage at site 1,200 ft upstream at datum 5.25 ft higher.

REMARKS.--No estimated daily discharges. 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 4,630 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 6	0000	6,460	17.85	Feb 22	2215	9,940	20.39
Nov 11	1115	4,780	15.70	May 6	1715	*48,600	*27.31
Dec 24	1245	8,090	19.21	May 7	2300	22,300	24.22
Feb 15	0715	20,200	23.79	Sep 22	1315	7,420	18.69

Minimum discharge, 45 ft^3/s, Sept. 20, 21.

REVISIONS.--The maximum discharge for water year 2002 has been revised to 55,900 ft^3/s, Jan. 23, 2002, gage height, 27.86 ft. They supersede figures published in WDR-TN report for 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	585	233	655	905	2,520	386	408	331	545	160	57
2	187	449	217	572	706	1,950	368	547	308	511	142	61
3	159	401	210	520	600	1,510	350	978	320	389	129	64
4	186	435	376	475	1,450	1,210	338	600	299	292	122	164
5	310	2,950	1,800	457	1,340	1,020	605	3,130	265	241	151	111
6	263	4,900	1,570	423	1,090	899	583	26,200	246	230	181	83
7	627	2,150	1,090	376	1,250	745	1,270	19,400	908	906	195	73
8	574	1,360	823	361	1,080	650	1,450	13,800	658	387	166	68
9	405	956	654	354	956	585	1,800	4,780	414	342	145	64
10	342	837	1,840	332	873	517	1,100	2,400	330	371	122	60
11	887	4,090	4,230	291	740	476	841	3,250	349	340	109	57
12	898	2,180	2,690	262	639	448	668	2,580	335	277	102	54
13	650	1,320	2,440	247	551	440	550	1,790	285	872	115	52
14	469	927	2,670	238	4,210	416	473	1,360	252	1,010	134	62
15	384	1,200	2,010	225	17,400	391	420	1,090	494	375	114	67
16	355	2,780	1,540	219	13,700	372	386	884	1,470	287	101	57
17	298	2,010	1,170	218	7,460	369	386	1,140	1,300	266	92	51
18	252	1,380	912	197	3,340	391	363	1,930	1,330	209	87	49
19	220	1,020	916	191	2,290	1,970	322	2,190	1,400	183	84	47
20	202	805	1,760	187	1,940	2,300	296	1,680	894	165	82	46
21	190	667	1,410	197	1,970	1,360	285	1,600	616	152	78	48
22	175	550	1,130	209	7,980	962	262	1,520	470	1,030	73	5,220
23	159	461	890	186	6,710	768	243	1,280	385	612	73	2,670
24	148	406	6,590	162	3,240	644	246	1,010	325	314	73	1,000
25	140	366	5,170	164	2,290	560	393	824	279	232	68	619
26	141	330	2,340	165	2,190	525	381	723	247	192	64	451
27	142	306	1,610	158	3,450	474	314	592	250	169	62	359
28	282	281	1,170	153	3,520	435	275	498	270	196	67	292
29	792	263	902	1,230	---	481	249	449	223	246	63	238
30	1,350	251	736	2,050	---	460	606	404	229	192	61	203
31	845	---	645	1,280	---	408	---	367	---	170	59	---
TOTAL	12,250	36,616	51,744	12,754	93,870	26,256	16,209	99,404	15,482	11,703	3,274	12,447
MEAN	395	1,221	1,669	411	3,352	847	540	3,207	516	378	106	415
MAX	1,350	4,900	6,590	2,050	17,400	2,520	1,800	26,200	1,470	1,030	195	5,220
MIN	140	251	210	153	551	369	243	367	223	152	59	46
CFSM	1.08	3.33	4.56	1.12	9.16	2.31	1.48	8.76	1.41	1.03	0.29	1.13
IN.	1.25	3.72	5.26	1.30	9.54	2.67	1.65	10.10	1.57	1.19	0.33	1.27

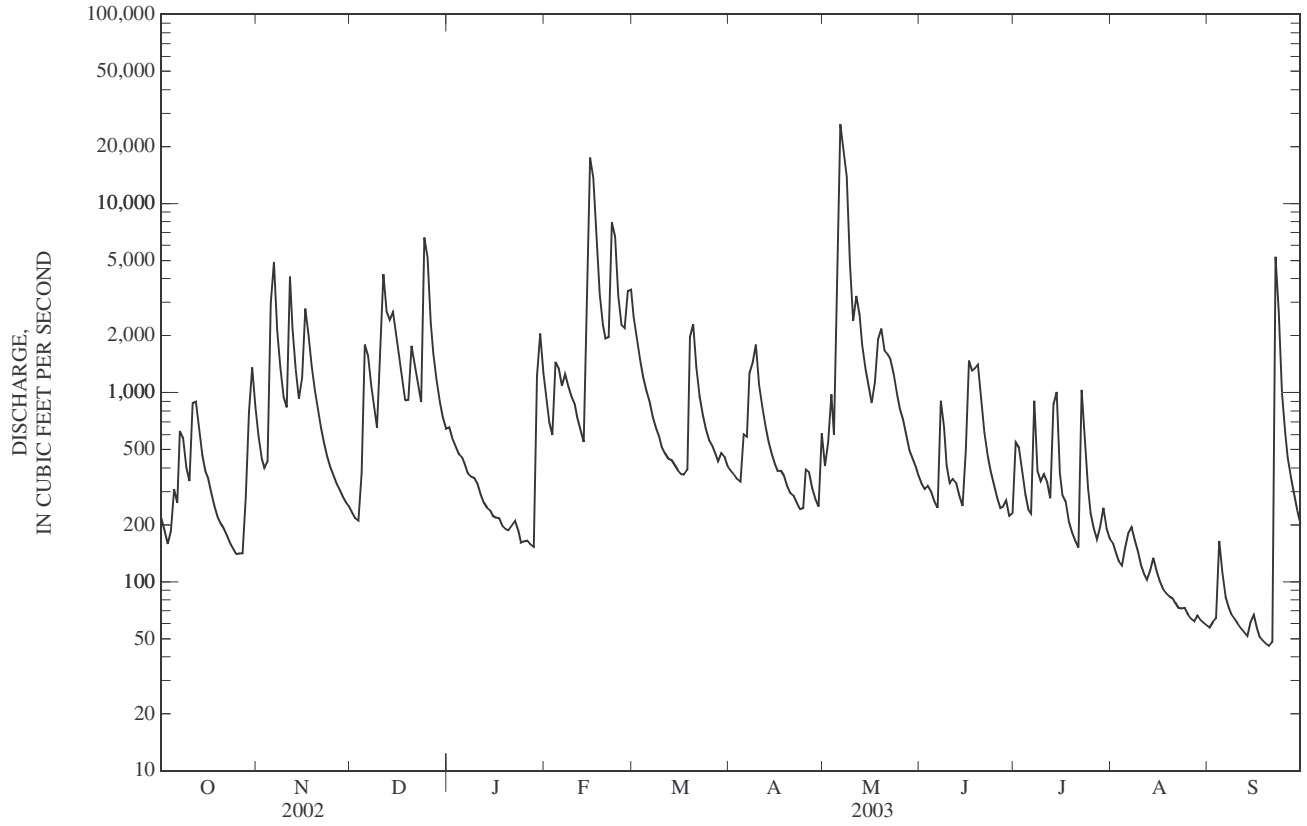
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

MEAN	462	881	1,627	1,610	2,260	1,432	807	1,384	342	247	203	252
MAX	529	1,221	1,669	2,808	3,352	2,140	975	3,207	516	378	442	415
(WY)	(2002)	(2003)	(2003)	(2002)	(2003)	(2002)	(2002)	(2003)	(2003)	(2003)	(2001)	(2003)
MIN	395	542	1,584	411	737	847	540	222	118	141	61.6	152
(WY)	(2003)	(2002)	(2002)	(2003)	(2002)	(2003)	(2003)	(2001)	(2002)	(2002)	(2002)	(2002)

03584020 RICHLAND CREEK AT HWY 64 NEAR PULASKI, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	340,652		392,009			
ANNUAL MEAN	933		1,074		978	
HIGHEST ANNUAL MEAN					1,074	2003
LOWEST ANNUAL MEAN					882	2002
HIGHEST DAILY MEAN	24,100	Jan 24	26,200	May 6	26,200	May 6, 2003
LOWEST DAILY MEAN	28	Sep 12	46	Sep 20	28	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	29	Sep 9	52	Sep 15	29	Sep 9, 2002
MAXIMUM PEAK FLOW			48,600	May 6	55,900	Jan 23, 2002
MAXIMUM PEAK STAGE			27.31	May 6	27.86	Jan 23, 2002
INSTANTANEOUS LOW FLOW			a45	Sep 20	b27	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	2.55		2.93		2.67	
ANNUAL RUNOFF (INCHES)	34.62		39.84		36.30	
10 PERCENT EXCEEDS	1,840		2,190		2,010	
50 PERCENT EXCEEDS	329		416		359	
90 PERCENT EXCEEDS	57		106		69	

a Also occurred Sept. 21.
b Also occurred Sept. 14, 2002.



03584600 ELK RIVER AT PROSPECT, TN

LOCATION.--Lat 35°00'51", long 86°59'41", Giles County, Hydrologic Unit 06030004, on right bank 25 ft upstream from county road bridge, 800 ft above abandoned L&N Railraod bridge, 0.4 mi above Ford Creek, 0.8 mi south of Prospect, 2.9 mi upstream from Tennessee-Alabama State line, and at mile 36.5.

DRAINAGE AREA.--1,805 mi^2.

PERIOD OF RECORD.--July 1904 to February 1908, January 1919 to September 1994, August to September 2003. Published as "near Elkmont, Ala." 1904-8, 1919-34. Record for both sites published January to March 1934. Published as "near Prospect, Tenn." 1935-89.

REVISED RECORDS.--WSP 523: 1904-8, 1919-20. WSP 823: Drainage area. WSP 1436: 1920-22, 1923(M), 1924, 1927, 1929, 1931-32(M).

GAGE.--Data collection platform and pressure sensor. Datum of gage is 558.70 ft above NGVD of 1929. July 1, 1904, to Feb. 2, 1908, and Jan. 20, 1919, to Mar. 31, 1934: nonrecording gage 6.9 mi downstream at datum 8.93 ft. lower. January 1934 to September 1989, water-stage recorder at site 5.0 mi upstream at datum 4.59 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Woods Reservoir (station 03579000) since May 1952, and Tims Ford Lake (station 03580740) since December 1970. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data. Tennessee Valley Authority satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1902 reach a stage of 40.9 ft, site and datum then in use, discharge, 130,000 ft^3/s, and may have been equaled by a flood in March 1897, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT PERIOD.--August to September 2003: Maximum discharge, 8,720 ft^3/s, Sept. 23, gage height 10.41 ft; minimum, 224 ft^3/s, Sept. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	3,360	417
2	---	---	---	---	---	---	---	---	---	---	3,360	333
3	---	---	---	---	---	---	---	---	---	---	1,590	322
4	---	---	---	---	---	---	---	---	---	---	920	1,070
5	---	---	---	---	---	---	---	---	---	---	1,110	1,240
6	---	---	---	---	---	---	---	---	---	---	2,850	1,270
7	---	---	---	---	---	---	---	---	---	---	3,820	550
8	---	---	---	---	---	---	---	---	---	---	3,680	392
9	---	---	---	---	---	---	---	---	---	---	3,410	326
10	---	---	---	---	---	---	---	---	---	---	1,570	355
11	---	---	---	---	---	---	---	---	---	---	587	413
12	---	---	---	---	---	---	---	---	---	---	849	395
13	---	---	---	---	---	---	---	---	---	---	2,580	493
14	---	---	---	---	---	---	---	---	---	---	2,610	350
15	---	---	---	---	---	---	---	---	---	---	2,510	291
16	---	---	---	---	---	---	---	---	---	---	2,540	286
17	---	---	---	---	---	---	---	---	---	---	1,460	658
18	---	---	---	---	---	---	---	---	---	---	499	343
19	---	---	---	---	---	---	---	---	---	---	755	256
20	---	---	---	---	---	---	---	---	---	---	2,360	232
21	---	---	---	---	---	---	---	---	---	---	2,430	451
22	---	---	---	---	---	---	---	---	---	---	2,520	3,300
23	---	---	---	---	---	---	---	---	---	---	2,450	7,170
24	---	---	---	---	---	---	---	---	---	---	1,400	2,610
25	---	---	---	---	---	---	---	---	---	---	437	1,470
26	---	---	---	---	---	---	---	---	---	---	522	1,120
27	---	---	---	---	---	---	---	---	---	---	1,940	2,380
28	---	---	---	---	---	---	---	---	---	---	1,840	1,610
29	---	---	---	---	---	---	---	---	---	---	1,960	819
30	---	---	---	---	---	---	---	---	---	---	1,770	1,360
31	---	---	---	---	---	---	---	---	---	---	1,200	---
TOTAL	---	---	---	---	---	---	---	---	---	---	60,889	32,282
MEAN	---	---	---	---	---	---	---	---	---	---	1,964	1,076
MAX	---	---	---	---	---	---	---	---	---	---	3,820	7,170
MIN	---	---	---	---	---	---	---	---	---	---	437	232

THIS PAGE IS INTENTIONALLY BLANK

03588500 SHOAL CREEK AT IRON CITY, TN

LOCATION.--Lat 35°01'27", long 87°34'44", Lawrence County, Hydrologic Unit 06030005, on right downstream bank at bridge, on county road, 400 ft downstream from Holly Creek, 1,350 ft upstream from Louisville and Nashville Railroad bridge, 1,350 ft northeast of Iron City Post Office, and at mile 22.3.

DRAINAGE AREA.--348 mi^2.

PERIOD OF RECORD.--July 1925 to September 1994, October 2000 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1113: 1927(M). WSP 1436: 1926(M), 1927-29, 1930(M), 1932, 1933(M).

GAGE.--Data collection platform and pressure sensor. Datum of gage is 534.22 ft above NGVD of 1929. Prior to Feb. 25, 1931, nonrecording gage at railroad bridge, 1350 ft downstream at datum 0.85 ft. lower. Feb. 25, 1931, to Sept. 30, 1933, nonrecording gage at site 825 ft downstream and Oct. 1, 1933, to Sept. 30, 1957, water-stage recorder at site 750 ft downstream at datum 0.69 ft higher.

REMARKS.--No estimated daily discharges. Records good. Maximum gage height at present site and datum, 24.4 ft, from high water profile. Prior to January 1951, diurnal fluctuation at low flow caused by powerplant near Lawrenceburg. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREME OUTSIDE PERIOD OF RECORD.--Flood in March 1902 reached a stage about 3 ft higher than that of Mar. 21, 1955, from information by local residents.

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)
Nov 6	0045	6,530	10.05	Feb 22	1400	9,530	12.16
Dec 24	1530	9,140	11.93	May 6	1730	*43,400	*22.54
Feb 15	0545	20,700	17.07	May 7	2245	10,000	12.44
Feb 15	2345	18,100	16.03	Jul 22	2045	7,460	10.76

Minimum discharge, 209 ft^3/s, Sept. 21.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265	600	298	959	1,110	1,500	576	438	442	553	374	253
2	259	483	288	893	950	1,280	558	497	423	416	339	253
3	228	450	287	844	872	1,090	540	446	453	360	331	266
4	314	490	389	794	1,780	975	528	418	426	334	330	368
5	597	2,540	1,120	766	1,560	904	546	738	400	320	510	297
6	416	3,650	850	745	1,320	837	552	18,500	395	313	497	263
7	531	1,620	669	701	1,330	753	1,190	9,490	841	367	454	255
8	702	1,070	573	684	1,190	701	1,210	4,690	651	360	387	248
9	432	802	506	665	1,080	666	942	1,850	487	333	354	241
10	446	674	755	641	1,030	627	802	1,220	433	506	331	234
11	2,030	2,970	1,550	593	931	603	713	1,680	420	362	316	231
12	1,250	1,540	1,100	563	855	585	642	1,250	457	326	308	229
13	747	1,020	1,120	547	784	606	591	914	410	319	365	225
14	537	784	1,560	538	3,090	613	551	795	389	369	428	224
15	447	884	1,160	525	16,000	578	521	724	381	317	358	222
16	402	2,340	942	528	10,500	561	502	661	418	307	343	217
17	349	1,450	802	541	3,640	577	526	1,090	415	331	331	216
18	309	1,040	702	502	2,080	594	497	2,240	419	297	338	217
19	283	824	700	500	1,540	1,730	464	1,690	469	284	325	217
20	275	682	1,330	496	1,350	1,400	447	1,230	436	278	301	214
21	265	592	1,040	511	1,460	968	443	1,070	394	278	289	222
22	252	521	884	516	6,260	804	423	991	371	2,830	285	3,100
23	240	460	745	482	3,190	711	410	834	356	1,580	294	1,210
24	232	420	5,910	449	1,960	655	434	731	344	652	286	558
25	228	391	3,310	462	1,480	616	691	671	334	493	274	427
26	231	368	2,020	462	1,410	625	666	630	329	425	267	366
27	250	349	1,540	454	2,010	590	564	573	346	387	280	334
28	342	327	1,270	450	1,890	564	514	534	336	365	362	308
29	1,190	317	1,090	1,250	---	639	480	509	323	436	286	287
30	1,590	311	967	1,840	---	626	454	487	379	388	264	274
31	851	---	908	1,350	---	591	---	468	---	357	260	---
TOTAL	16,490	29,969	36,385	21,251	72,652	24,569	17,977	58,059	12,677	15,243	10,467	11,976
MEAN	532	999	1,174	686	2,595	793	599	1,873	423	492	338	399
MAX	2,030	3,650	5,910	1,840	16,000	1,730	1,210	18,500	841	2,830	510	3,100
MIN	228	311	287	449	784	561	410	418	323	278	260	214
CFSM	1.53	2.87	3.37	1.97	7.46	2.28	1.72	5.38	1.21	1.41	0.97	1.15
IN.	1.76	3.20	3.89	2.27	7.77	2.63	1.92	6.21	1.36	1.63	1.12	1.28

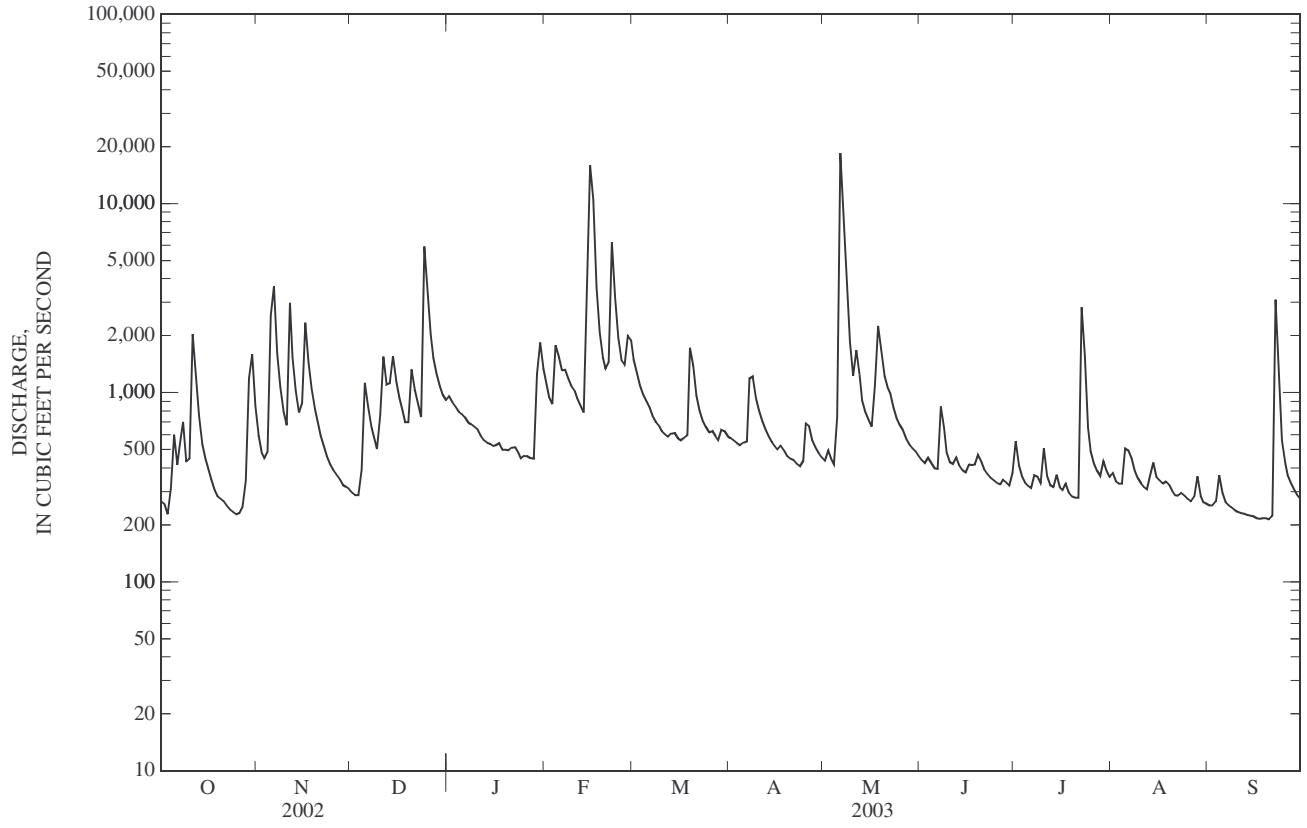
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2003, BY WATER YEAR (WY)

MEAN	238	448	779	1,047	1,234	1,305	983	741	379	300	224	226
MAX	1,290	1,894	2,968	3,604	3,562	3,626	2,227	3,425	1,876	1,131	615	1,296
(WY)	(1933)	(1978)	(1927)	(1974)	(1948)	(1975)	(1964)	(1991)	(1928)	(1932)	(1926)	(1979)
MIN	69.4	123	165	170	273	373	222	169	118	105	94.8	64.8
(WY)	(1932)	(1955)	(1964)	(1981)	(1941)	(1966)	(1986)	(1936)	(1988)	(1943)	(1988)	(1925)

03588500 SHOAL CREEK AT IRON CITY, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1925 - 2003	
ANNUAL TOTAL	291,024		327,715			
ANNUAL MEAN	797		898		656	
HIGHEST ANNUAL MEAN					1,178	1973
LOWEST ANNUAL MEAN					281	1981
HIGHEST DAILY MEAN	19,800	Jan 24	18,500	May 6	44,000	Feb 13, 1948
LOWEST DAILY MEAN	124	Sep 13	214	Sep 20	41	Sep 22, 1925
ANNUAL SEVEN-DAY MINIMUM	128	Sep 9	218	Sep 15	55	Sep 3, 1925
MAXIMUM PEAK FLOW			43,400	May 6	a132,000	Mar 21, 1955
MAXIMUM PEAK STAGE			22.54	May 6	b27.25	Mar 21, 1955
INSTANTANEOUS LOW FLOW			209	Sep 21	38	Aug 31, 1943
ANNUAL RUNOFF (CFSM)	2.29		2.58		1.89	
ANNUAL RUNOFF (INCHES)	31.11		35.03		25.63	
10 PERCENT EXCEEDS	1,380		1,540		1,300	
50 PERCENT EXCEEDS	416		526		319	
90 PERCENT EXCEEDS	165		278		130	

a From rating curve extended above 50,000 ft^3/s on basis of slope-area measurement.
b Site and datum then in use (see REMARKS).



03593500 TENNESSEE RIVER AT SAVANNAH, TN

LOCATION.--Lat 35°13'29", long 88°15'26", Hardin County, Hydrologic Unit 06040001, on right bank at upstream side of bridge on U.S. Highway 64, at Savannah, 16.8 mi downstream from Pickwick Landing Dam, and at mile 189.9.

DRAINAGE AREA.--33,140 mi^2 approximately.

PERIOD OF RECORD.--September 1930 to current year. Gage-height records collected in this vicinity since June 1905, are in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 853: Drainage area. WSP 1306: 1936 (monthly runoff). WSP 2110: 1966. WRD TN-73-1: 1973-96. WRD TN- 74-1: 1973. WRD TN-85-1: 1985. WRD TN-90-1: 1989.

GAGE.--Data collection platform. Datum of gage is 350.06 ft above NGVD of 1929 (Levels by Tennessee Valley Authority). Prior to Oct. 1, 1992, at datum 50.06 ft lower, prior to Apr. 7, 1945, at datum 8.45 ft lower. Oct. 1, 1948 to Apr. 13, 1978 and Oct. 1, 1989 to present, auxiliary water-stage recorder on downstream end of lockwall in lower pool at Pickwick Landing Dam Apr. 13, 1978 to Sept. 30, 1989, auxiliary water-stage recorder over tailwater elevation well adjacent to the powerhouse which is an integral part of Pickwick Landing Dam, both sites 16.8 mi. upstream from base gage at same datum. Apr. 5, 1937, to Jan. 31, 1939, auxiliary nonrecording gage 4.0 mi downstream and Feb. 1, 1939, to Sept. 30, 1948, water-stage recorder 4.3 mi downstream from base gage at same datum.

REMARKS.--Records good, except for estimated discharges, which are fair. Slight regulation since 1924 by Wilson Lake and increasing regulation since 1936 as other reservoirs have been built above station ((see p. 300) and Water Resources Data for adjoining states). Periodic observations of specific conductance and water temperature are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1867, 101.2 ft, Mar. 21, 1897, datum then in use, from floodmarks, discharge, 450,000 ft^3/s, from rating curve extended above 320,000 ft^3/s. Flood of Jan. 2, 1927, reached a stage of 92.7 ft datum then in use, discharge, 349,000 ft^3/s. Minimum stage since 1905, 38.8 ft datum then in use, Sept. 8, 1925.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 364,000 ft^3/s, May 11; maximum gage height, 39.73 ft, May 12; minimum daily discharge, 4,120 ft^3/s, Oct. 19, minimum gage height, 4.16 ft, Jan. 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30,400	49,200	e39,000	76,700	19,200	201,000	19,700	51,600	40,900	83,100	45,500	35,300
2	20,500	23,500	e57,000	70,600	21,500	193,000	8,060	49,900	40,400	70,200	48,000	56,700
3	35,800	13,200	e66,000	72,500	28,200	189,000	10,700	25,900	58,900	73,800	49,100	63,900
4	32,900	51,000	e71,000	72,800	53,200	184,000	11,100	12,800	52,800	76,400	46,800	48,200
5	31,200	60,600	e70,000	52,000	70,300	171,000	12,100	41,200	42,700	78,500	73,600	48,000
6	17,100	62,100	70,400	60,000	71,400	147,000	11,100	148,000	40,400	73,700	73,500	28,300
7	29,700	54,100	70,700	69,000	62,100	122,000	24,800	316,000	65,500	59,200	63,700	35,500
8	28,000	64,000	70,700	69,200	59,400	84,700	24,200	322,000	41,100	60,500	75,100	47,100
9	35,400	58,900	72,200	33,000	40,400	92,000	39,500	338,000	41,200	59,800	67,600	49,400
10	49,700	65,100	73,300	27,100	62,400	96,800	46,800	354,000	47,900	63,500	30,200	51,300
11	52,600	68,900	83,700	33,100	71,700	97,100	54,100	361,000	42,300	72,600	50,700	46,700
12	18,900	86,600	107,000	32,500	72,000	95,300	69,000	353,000	44,300	72,600	51,500	34,500
13	16,600	117,000	119,000	51,100	70,900	83,100	69,200	322,000	60,600	71,800	51,500	15,000
14	9,970	e123,000	118,000	62,300	94,000	72,300	66,200	259,000	35,600	64,200	42,600	12,500
15	45,000	e110,000	119,000	59,500	150,000	71,300	64,300	187,000	39,100	61,300	59,900	40,500
16	22,800	93,300	123,000	53,700	199,000	63,700	63,500	126,000	49,500	61,400	45,400	46,200
17	30,300	90,800	129,000	39,900	231,000	49,300	63,200	115,000	47,400	66,800	46,500	39,300
18	17,900	90,100	127,000	42,800	243,000	59,200	63,300	116,000	68,300	68,100	56,600	42,100
19	4,120	e92,000	133,000	35,200	262,000	68,200	63,100	145,000	74,100	45,600	51,200	50,600
20	15,700	e78,000	121,000	27,000	268,000	60,100	62,000	176,000	75,200	30,300	56,800	8,750
21	41,100	e71,000	103,000	32,300	256,000	40,800	67,400	177,000	66,000	65,100	54,600	13,000
22	43,300	e71,000	102,000	32,500	251,000	7,800	61,300	146,000	57,600	37,700	44,200	45,000
23	52,200	e70,000	91,100	59,300	251,000	13,800	43,400	118,000	65,500	31,700	28,700	62,400
24	46,700	e70,000	96,900	79,900	251,000	49,200	67,400	107,000	63,100	53,900	27,100	71,200
25	36,400	e70,000	107,000	48,800	248,000	43,400	57,800	106,000	63,800	52,400	61,600	72,900
26	12,800	e70,000	121,000	12,800	239,000	45,500	31,000	105,000	68,000	48,300	61,100	73,800
27	10,100	e70,000	149,000	43,000	234,000	52,500	31,400	86,100	51,700	55,300	59,000	64,900
28	15,500	e47,000	158,000	33,900	221,000	39,600	45,000	74,700	41,100	59,600	57,100	61,300
29	49,600	e39,000	149,000	30,400	---	7,710	55,000	57,000	25,700	46,700	42,400	40,500
30	56,300	e46,000	138,000	42,900	---	7,200	55,000	51,200	50,700	42,500	31,900	55,400
31	57,800	---	117,000	48,300	---	48,900	---	44,000	---	29,300	30,000	---
TOTAL	966,390	2,075,400	3,172,000	1,504,100	4,100,700	2,556,510	1,360,660	4,891,400	1,561,400	1,835,900	1,583,500	1,360,250
MEAN	31,170	69,180	102,300	48,520	146,500	82,470	45,360	157,800	52,050	59,220	51,080	45,340
MAX	57,800	123,000	158,000	79,900	268,000	201,000	69,200	361,000	75,200	83,100	75,100	73,800
MIN	4,120	13,200	39,000	12,800	19,200	7,200	8,060	12,800	25,700	29,300	27,100	8,750

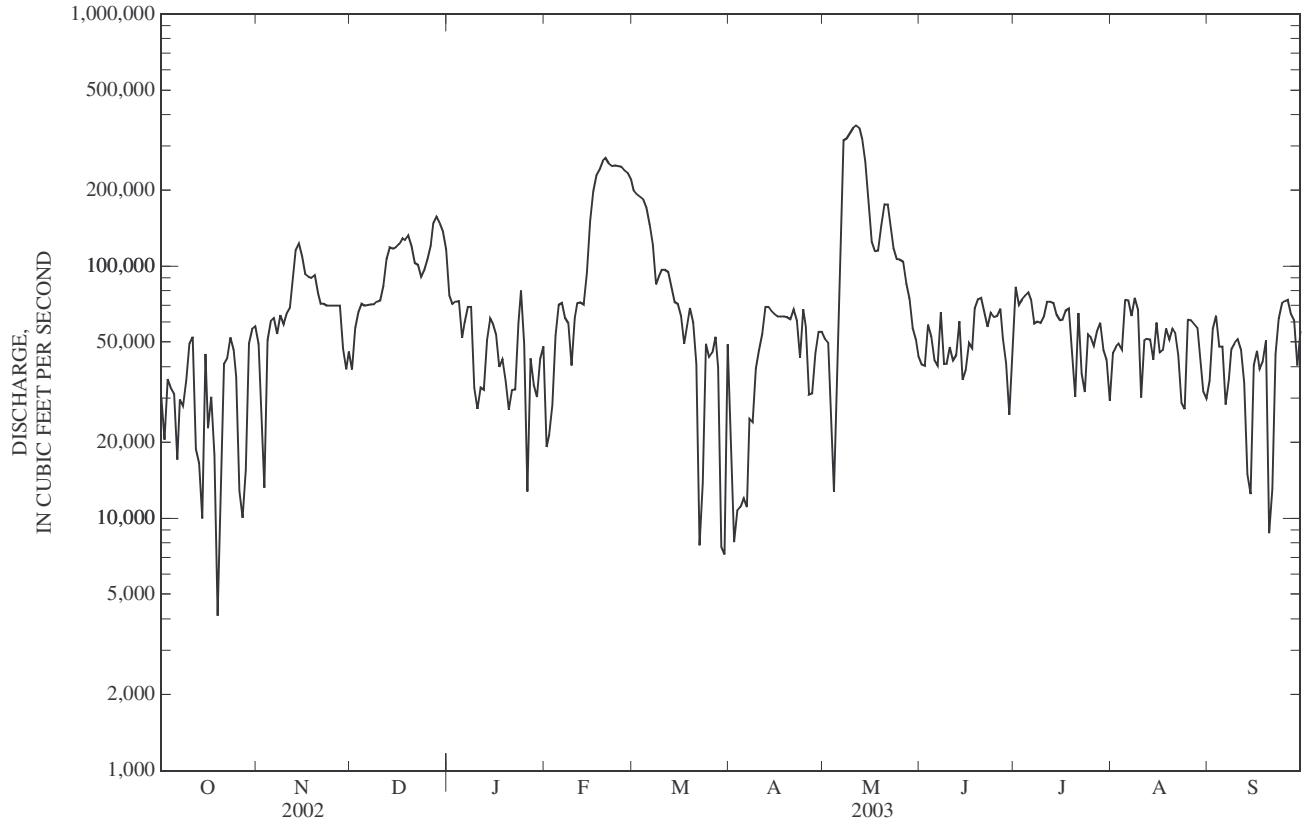
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2003, BY WATER YEAR (WY)

MEAN	36,140	47,120	71,900	87,740	93,250	85,210	55,120	49,250	40,360	38,420	37,500	34,740
MAX	97,010	147,000	160,100	223,100	228,100	185,600	172,300	157,800	112,900	84,810	64,740	71,700
(WY)	(1990)	(1958)	(1992)	(1974)	(1957)	(1973)	(1994)	(2003)	(1997)	(1989)	(1967)	(1950)
MIN	18,820	20,510	26,850	23,710	30,610	19,840	11,150	8,977	10,490	12,910	15,910	15,800
(WY)	(1955)	(1954)	(1981)	(1986)	(2000)	(1988)	(1986)	(1988)	(1988)	(1988)	(1988)	(1968)

03593500 TENNESSEE RIVER AT SAVANNAH, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		*WATER YEARS 1946 - 2003	
ANNUAL TOTAL	18,572,010		26,968,210			
ANNUAL MEAN	50,880		73,890		56,250	
HIGHEST ANNUAL MEAN					86,550	1973
LOWEST ANNUAL MEAN					23,090	1988
HIGHEST DAILY MEAN	294,000	Jan 27	361,000	May 11	495,000	Mar 18, 1973
LOWEST DAILY MEAN	2,190	Jun 15	4,120	Oct 19	60	Apr 23, 1966
ANNUAL SEVEN-DAY MINIMUM	13,200	Jun 28	13,900	Apr 1	5,890	May 20, 1986
MAXIMUM PEAK FLOW					507,000	Mar 18, 1973
MAXIMUM PEAK STAGE					a96.11	Mar 20, 1973
INSTANTANEOUS LOW FLOW					60	Apr 23, 1966
10 PERCENT EXCEEDS	120,000		145,000		107,000	
50 PERCENT EXCEEDS	33,400		59,200		42,400	
90 PERCENT EXCEEDS	10,700		26,600		21,300	

* Regulated period only.
a Datum then in use; see GAGE paragraph.
e Estimated



03595100 LITTLE DUCK RIVER SOUTHEAST OF MANCHESTER, TN

LOCATION.--Lat 35°27'44", long 86°03'54", Coffee County, Hydrologic Unit 06040002, on left downstream side of bridge on US Highway 41, 2 mi southeast of Manchester.

DRAINAGE AREA.--13.0 mi^2.

PERIOD OF RECORD.--February 2002 to May 2003 (discontinued). Occasional low-flow measurements, water year 1953-54, 1956-57, 1962, 1964-65, 1970.

GAGE.--Data logger and crest-stage gage.

REMARKS.--Records good except for estimated daily discharges, which are fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT PERIOD.--February 2002 to May 2003: Maximum discharge, 1,010 ft^3/s, May 6, gage height, 9.28 ft; minimum discharge, 0.80 ft^3/s, Oct. 7.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO MAY 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	7.7	4.1	e22	e29	63	12	8.0	---	---	---	---
2	1.8	4.3	3.9	e21	e27	44	11	8.0	---	---	---	---
3	1.6	4.7	3.7	e19	e25	33	9.4	7.6	---	---	---	---
4	2.1	5.7	21	e17	e29	e27	8.9	7.0	---	---	---	---
5	2.3	77	e31	e15	e25	e24	17	183	---	---	---	---
6	1.7	35	e21	e13	e24	e21	50	741	---	---	---	---
7	41	13	e16	e13	e32	e19	207	761	---	---	---	---
8	14	8.3	e11	e13	e29	e18	96	295	---	---	---	---
9	5.3	6.8	e8.0	e12	e28	e17	80	109	---	---	---	---
10	4.3	14	e95	e11	e27	e15	80	64	---	---	---	---
11	4.1	50	e80	e11	e27	e13	73	85	---	---	---	---
12	3.6	19	e42	e10	27	e12	54	63	---	---	---	---
13	3.2	11	e47	e9.8	20	e11	36	43	---	---	---	---
14	3.1	8.5	e40	e9.4	241	e9.0	23	20	---	---	---	---
15	3.9	11	e35	e8.8	476	e8.6	18	16	---	---	---	---
16	3.7	15	e29	e8.8	459	e8.4	15	14	---	---	---	---
17	3.2	12	e25	e8.0	204	e8.3	19	26	---	---	---	---
18	3.0	9.6	e22	e7.8	114	e9.1	18	94	---	---	---	---
19	2.9	8.3	e34	e8.0	83	e34	14	54	---	---	---	---
20	2.8	7.4	e37	e9.0	60	e27	12	30	---	---	---	---
21	2.8	6.8	e30	e9.7	48	e19	11	80	---	---	---	---
22	2.7	6.3	e26	e9.0	311	e15	10	60	---	---	---	---
23	2.6	5.8	e22	e8.0	160	e13	9.4	32	---	---	---	---
24	2.5	5.3	e150	e7.6	91	e12	9.3	21	---	---	---	---
25	2.4	5.2	e72	e8.0	68	e11	13	17	---	---	---	---
26	2.5	5.2	e45	e7.8	85	e10	22	17	---	---	---	---
27	2.5	4.7	e35	e7.7	130	e9.5	21	14	---	---	---	---
28	14	4.5	e30	e8.0	91	12	14	11	---	---	---	---
29	25	4.5	e23	e55	---	19	11	9.5	---	---	---	---
30	10	4.3	e22	e48	---	21	9.1	8.2	---	---	---	---
31	8.5	---	e20	e35	---	15	---	7.4	---	---	---	---
TOTAL	185.1	380.9	1,080.7	450.4	2,970	577.9	983.1	2,905.7	---	---	---	---
MEAN	5.97	12.7	34.9	14.5	106	18.6	32.8	93.7	---	---	---	---
MAX	41	77	150	55	476	63	207	761	---	---	---	---
MIN	1.6	4.3	3.7	7.6	20	8.3	8.9	7.0	---	---	---	---
CFSM	0.46	0.98	2.68	1.12	8.16	1.43	2.52	7.21	---	---	---	---
IN.	0.53	1.09	3.09	1.29	8.50	1.65	2.81	8.31	---	---	---	---

e Estimated

03596100 CRUMPTON CREEK AT RUTLEDGE FALLS, TN

LOCATION.--Lat 35°25'20", long 86°08'11", Coffee County, Hydrologic Unit 06040002, on right downstream of county highway bridge, 30 ft below Wiley Creek.

DRAINAGE AREA.--28.1 mi^2.

PERIOD OF RECORD.--March 2002 to current year. Occasional low-flow measurements, water years 1953-54, 1956-57, 1962, 1964-65, 1970, water-quality 1975.

GAGE.--Data logger and crest-stage gage.

REMARKS.--Records fair except for periods of estimated daily discharges, which are poor. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,600 ft^3/s, May 6, gage height, 11.34 ft; minimum discharge, 5.9 ft^3/s, Dec. 3.

REVISIONS.--The maximum discharge for water year 2002 has been revised to 1,070 ft^3/s, March 31, gage height 6.72 ft. They supersede figures published in WDR-TN report for 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	10	6.8	31	35	83	24	22	21	73	12	7.7
2	7.9	9.7	6.6	29	31	68	23	20	21	64	11	7.6
3	7.6	9.9	6.4	28	29	56	22	19	22	32	24	8.4
4	8.5	11	16	25	37	e47	21	18	20	26	16	14
5	8.5	111	43	24	30	e41	32	1,020	18	22	15	8.3
6	8.3	37	22	20	30	e36	78	2,050	17	18	18	7.6
7	24	23	17	18	41	e32	387	1,820	21	26	15	7.4
8	10	19	15	19	33	e29	123	530	20	20	12	7.4
9	9.0	16	14	18	30	e27	101	190	18	16	11	7.4
10	8.6	18	128	16	31	e24	101	100	16	16	10	7.4
11	8.4	41	130	14	31	e20	87	169	17	16	9.9	7.4
12	7.9	22	52	13	27	e17	63	83	18	14	9.7	7.4
13	7.6	18	56	13	25	e14	50	57	16	17	9.3	7.4
14	7.5	16	52	12	647	e12	43	45	15	17	9.1	7.6
15	8.1	16	39	11	974	e10	38	39	15	14	9.1	7.4
16	10	17	33	11	887	e10	35	35	14	14	8.9	7.4
17	8.7	14	30	10	282	e9.5	34	46	14	13	8.6	7.4
18	8.0	12	26	10	127	e15	33	100	17	12	8.5	7.4
19	7.9	11	46	10	87	e282	30	58	17	11	8.6	7.4
20	7.9	10	51	11	71	e110	28	43	15	11	8.5	7.3
21	7.7	10	36	12	76	e73	28	105	14	13	8.4	7.6
22	7.8	9.2	31	11	825	e60	27	72	13	67	8.2	89
23	7.7	8.8	27	9.4	297	e47	24	51	13	46	8.4	14
24	7.7	8.5	245	8.8	130	e38	24	41	12	25	8.2	8.9
25	7.8	8.0	87	9.2	86	e32	31	37	12	18	7.9	7.6
26	8.3	7.9	52	9.2	115	e30	51	38	12	14	7.8	7.2
27	8.1	7.5	41	8.6	209	e29	37	32	13	13	7.9	8.2
28	15	7.3	35	9.1	120	28	30	28	12	13	7.9	7.7
29	16	7.2	31	92	---	31	26	26	11	13	7.9	7.3
30	13	7.1	29	59	---	30	24	24	35	13	7.9	6.9
31	11	---	28	42	---	27	---	22	---	13	7.8	---
TOTAL	292.6	523.1	1,431.8	613.3	5,343	1,367.5	1,655	6,940	499	700	322.5	321.7
MEAN	9.44	17.4	46.2	19.8	191	44.1	55.2	224	16.6	22.6	10.4	10.7
MAX	24	111	245	92	974	282	387	2,050	35	73	24	89
MIN	7.5	7.1	6.4	8.6	25	9.5	21	18	11	11	7.8	6.9
CFSM	0.34	0.62	1.64	0.70	6.79	1.57	1.96	7.97	0.59	0.80	0.37	0.38
IN.	0.39	0.69	1.90	0.81	7.07	1.81	2.19	9.19	0.66	0.93	0.43	0.43

e Estimated

03597210 GARRISON FORK ABOVE L&N RAILROAD AT WARTRACE, TN

LOCATION.--Lat 35°30'42", long 86°19'26", Bedford County, Hydrologic Unit 06040002, on right bank 0.3 mi above L&N Railroad bridge, 0.6 mi below Knob Creek, 1.2 mi southeast of Wartrace, and at mile 3.2.

DRAINAGE AREA.--85.5 mi^2.

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 769.30 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. 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 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 10	2330	6,630	14.08	Feb 22	0630	5,100	12.77
Dec 24	0630	4,360	12.03	May 6	1415	*17,100	*19.71
Feb 14	2300	6,930	14.33	May 7	1700	7,390	14.69
Feb 15	1530	5,030	12.70				

Minimum discharge, 5.5 ft^3/s, Sept. 2.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	63	37	103	134	352	57	40	38	186	34	6.7
2	30	49	35	96	110	270	55	42	36	121	36	6.2
3	24	44	35	117	104	206	53	39	39	70	32	10
4	23	64	218	112	467	168	52	34	38	48	24	70
5	55	595	692	105	272	145	113	219	33	37	23	38
6	48	480	341	94	228	131	121	7,770	31	38	23	20
7	87	239	208	83	302	110	577	5,670	100	82	28	14
8	74	147	145	81	221	98	409	1,260	72	53	20	12
9	49	109	113	79	181	91	342	472	47	37	16	11
10	39	915	1,030	72	168	81	274	287	37	58	14	9.6
11	40	1,870	1,070	63	153	76	247	433	115	93	13	8.8
12	37	365	441	58	133	72	193	271	155	51	11	8.3
13	31	193	498	56	116	69	150	189	78	39	11	7.6
14	28	129	466	55	2,330	64	120	143	56	36	12	8.4
15	26	247	321	53	3,980	61	103	119	48	30	10	10
16	46	368	228	52	2,130	59	92	105	61	26	9.7	8.8
17	46	232	168	52	793	58	89	102	153	23	9.7	7.2
18	36	152	130	48	426	65	78	139	78	20	10	6.6
19	30	118	175	49	298	307	67	117	63	18	9.4	6.0
20	27	94	304	49	236	234	60	94	53	17	8.5	6.0
21	25	81	200	56	232	156	60	124	42	17	7.8	6.3
22	22	69	157	60	2,080	117	55	128	35	24	7.5	174
23	19	60	124	52	755	99	50	111	30	30	8.6	112
24	18	54	1,790	54	457	87	48	92	27	20	10	44
25	17	50	565	44	327	79	82	80	24	17	9.1	28
26	17	48	326	44	382	75	147	73	22	14	7.9	22
27	17	45	226	42	655	68	79	61	36	13	7.9	30
28	28	42	170	41	482	64	60	54	33	25	8.0	45
29	104	40	135	253	---	75	51	50	25	71	8.2	26
30	137	39	116	258	---	67	45	46	123	30	7.9	20
31	90	---	103	174	---	60	---	42	---	23	7.2	---
TOTAL	1,310	7,001	10,567	2,555	18,152	3,664	3,929	18,406	1,728	1,367	444.4	782.5
MEAN	42.3	233	341	82.4	648	118	131	594	57.6	44.1	14.3	26.1
MAX	137	1,870	1,790	258	3,980	352	577	7,770	155	186	36	174
MIN	17	39	35	41	104	58	45	34	22	13	7.2	6.0
CFSM	0.49	2.73	3.99	0.96	7.58	1.38	1.53	6.94	0.67	0.52	0.17	0.31
IN.	0.57	3.05	4.60	1.11	7.90	1.59	1.71	8.01	0.75	0.59	0.19	0.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2003, BY WATER YEAR (WY)

MEAN	57.2	110	276	298	323	341	196	155	71.2	45.2	30.8	38.7
MAX	285	296	825	691	793	726	503	594	294	127	92.1	240
(WY)	(1996)	(1997)	(1991)	(2002)	(1991)	(1994)	(1994)	(2003)	(1997)	(1999)	(1996)	(1992)
MIN	5.09	10.7	22.1	28.4	91.4	118	60.2	28.5	19.4	9.06	7.33	3.90
(WY)	(2000)	(2000)	(2000)	(2000)	(2000)	(2003)	(1999)	(2001)	(2000)	(2000)	(1999)	(1999)

03597210 GARRISON FORK ABOVE L&N RAILROAD AT WARTRACE, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1990 - 2003	
ANNUAL TOTAL	78,409.4		69,905.9			
ANNUAL MEAN	215		192		161	
HIGHEST ANNUAL MEAN					233	1994
LOWEST ANNUAL MEAN					79.7	2000
HIGHEST DAILY MEAN	9,480	Jan 23	7,770	May 6	9,480	Jan 23, 2002
LOWEST DAILY MEAN	2.8	Sep 13	6.0	Sep 19	2.0	Sep 18, 1999
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 9	7.3	Sep 15	2.1	Sep 14, 1999
MAXIMUM PEAK FLOW			17,100	May 6	17,700	Jan 23, 2002
MAXIMUM PEAK STAGE			19.71	May 6	19.89	Jan 23, 2002
INSTANTANEOUS LOW FLOW			5.5	Sep 2	1.7	Sep 9, 1999
ANNUAL RUNOFF (CFSM)	2.51		2.24		1.89	
ANNUAL RUNOFF (INCHES)	34.11		30.42		25.63	
10 PERCENT EXCEEDS	366		333		304	
50 PERCENT EXCEEDS	47		61		52	
90 PERCENT EXCEEDS	7.1		12		8.8