03498500 LITTLE RIVER NEAR MARYVILLE, TN

LOCATION.--Lat 35°47'07", long 83°53'04", Blount County, Hydrologic Unit 06010201, on left bank 200 ft above bridge on U.S. Highway 411, 0.8 mi downstream from Crooked Creek, 5.0 mi east of Maryville, and at mile 17.3.

DRAINAGE AREA.--269 mi^2.

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Data-collection platform and crest-stage gage. Datum of gage is 850.00 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diurnal fluctuations of flow caused by small mills above station. The town of Maryville diverted an average of about 4.0 ft^3/s (2.6 MGD) for municipal supply 100 ft upstream from gage. 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 Feb. 25, 1875, reached a stage of 31 ft, discharge, 50,000 ft^3/s, and flood of April 1, 1896, reached a stage of 26 ft, discharge, 36,000 ft^3/s, from reports by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 24	1815	*10,600	*15.17	Dec 9	1930	7,810	13.51

Minimum discharge, 75 ft^3/s, Sept. 26.

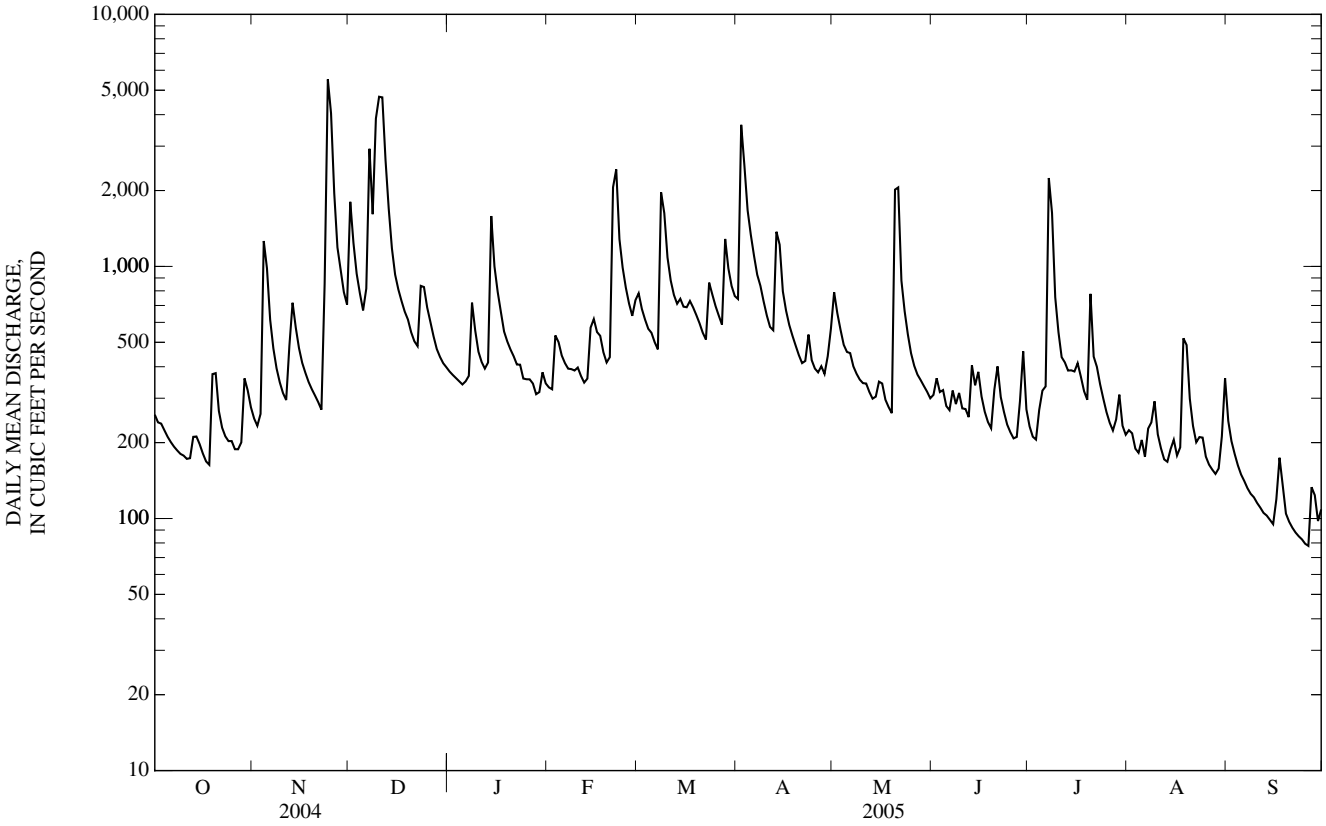
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	258	249	1,800	383	331	782	743	790	309	232	224	244
2	241	233	1,240	371	326	678	3,650	652	360	211	218	203
3	238	260	936	360	532	615	2,520	561	317	206	189	180
4	224	1,260	782	350	501	566	1,670	489	323	270	182	162
5	211	983	669	340	443	545	1,330	458	279	322	205	149
6	201	615	817	350	413	500	1,100	453	e269	334	176	141
7	193	473	2,930	368	393	469	927	401	e322	2,240	227	132
8	186	394	1,610	718	391	1,970	837	375	284	1,630	241	125
9	180	347	3,860	557	386	1,630	726	356	315	755	292	121
10	178	315	4,710	459	397	1,090	638	344	273	549	216	115
11	172	295	4,680	418	368	879	575	343	272	436	190	110
12	174	484	2,650	393	346	771	558	317	252	416	172	105
13	211	718	1,700	416	359	711	1,370	299	405	386	e168	103
14	211	571	1,180	1,580	571	744	1,220	304	338	387	e188	99
15	197	474	928	1,000	618	692	796	349	382	e383	e205	95
16	181	414	810	793	549	689	668	343	305	e413	178	119
17	168	378	729	660	530	729	585	296	265	365	192	174
18	163	348	662	552	456	687	531	277	241	320	519	135
19	374	326	615	504	416	641	485	262	228	296	488	105
20	377	307	548	468	436	595	444	2,020	324	778	299	97
21	267	290	505	440	2,060	546	413	2,060	401	439	233	92
22	229	270	483	408	2,430	513	422	879	303	400	201	88
23	212	853	837	e407	1,280	862	536	665	265	341	210	85
24	203	5,520	828	e359	990	772	425	538	236	299	209	83
25	203	4,050	687	e357	824	696	393	453	220	264	176	79
26	188	1,950	603	356	713	638	380	403	208	240	164	78
27	188	1,190	528	343	637	588	402	372	211	223	156	133
28	200	971	470	311	735	1,290	375	354	292	247	150	124
29	360	790	438	317	---	983	440	336	460	310	158	98
30	322	705	413	380	---	837	567	319	271	233	212	109
31	276	---	398	344	---	763	---	300	---	215	360	---
TOTAL	6,986	26,033	40,046	15,062	18,431	24,471	25,726	16,368	8,930	14,140	6,998	3,683
MEAN	225	868	1,292	486	658	789	858	528	298	456	226	123
MAX	377	5,520	4,710	1,580	2,430	1,970	3,650	2,060	460	2,240	519	244
MIN	163	233	398	311	326	469	375	262	208	206	150	78
CFSM	0.84	3.23	4.80	1.81	2.45	2.93	3.19	1.96	1.11	1.70	0.84	0.46
IN.	0.97	3.60	5.54	2.08	2.55	3.38	3.56	2.26	1.23	1.96	0.97	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)

MEAN	195	355	623	793	941	996	756	518	376	331	253	186
MAX	830	1,160	1,679	1,792	2,254	2,517	1,701	1,782	1,261	1,391	867	1,019
(WY)	(1973)	(1958)	(1962)	(1974)	(1957)	(1994)	(1994)	(1984)	(1989)	(1971)	(1971)	(1989)
MIN	50.7	65.4	103	121	308	385	224	208	86.1	100	78.1	55.6
(WY)	(1988)	(1988)	(1966)	(1981)	(1954)	(1988)	(1986)	(1986)	(1988)	(1952)	(1987)	(1954)

03498500 LITTLE RIVER NEAR MARYVILLE, TN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005	
ANNUAL TOTAL	228,693		206,874			
ANNUAL MEAN	625		567		525	
HIGHEST ANNUAL MEAN					862	1994
LOWEST ANNUAL MEAN					220	1988
HIGHEST DAILY MEAN	5,520	Nov 24	5,520	Nov 24	23,100	Mar 28, 1994
LOWEST DAILY MEAN	163	Oct 18	78	Sep 26	43	Oct 19, 1987
ANNUAL SEVEN-DAY MINIMUM	183	Oct 6	86	Sep 20	45	Oct 14, 1987
MAXIMUM PEAK FLOW			10,600	Nov 24	a42,100	Mar 28, 1994
MAXIMUM PEAK STAGE			15.17	Nov 24	27.95	Mar 28, 1994
INSTANTANEOUS LOW FLOW			75	Sep 26	32	Aug 27, 1956
ANNUAL RUNOFF (CFSM)	2.32		2.11		1.95	
ANNUAL RUNOFF (INCHES)	31.63		28.61		26.53	
10 PERCENT EXCEEDS	1,030		986		1,030	
50 PERCENT EXCEEDS	434		380		320	
90 PERCENT EXCEEDS	230		174		101	

a From rating curve extended above 14,800 ft^3/s on basis of a contracted opening measurement and road overflow computations.
e Estimated