





## CUMBERLAND RIVER BASIN

03419800 CALFKILLER RIVER AT HWY 111 BELOW SPARTA, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL TOTAL	205,273		278,077			
ANNUAL MEAN	562		762		634	
HIGHEST ANNUAL MEAN					762	2003
LOWEST ANNUAL MEAN					506	2002
HIGHEST DAILY MEAN	20,400	Jan 24	17,400	Feb 16	20,400	Jan 24, 2002
LOWEST DAILY MEAN	13	Sep 2	23	Oct 26	13	Sep 2, 2002
ANNUAL SEVEN-DAY MINIMUM	13	Sep 2	25	Oct 21	13	Sep 2, 2002
MAXIMUM PEAK FLOW			18,700	Feb 16	a22,000	Jan 24, 2002
MAXIMUM PEAK STAGE			13.47	Feb 16	15.40	Jan 24, 2002
INSTANTANEOUS LOW FLOW					12	Sep 4, 2002
10 PERCENT EXCEEDS	1,190		1,630		1,310	
50 PERCENT EXCEEDS	190		292		220	
90 PERCENT EXCEEDS	26		46		34	

a From rating curve extended above 8,000 ft<sup>3</sup>/s.

e Estimated

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	e117	70	430	684	358	430	689	315	688	429	218	60
2	e102	67	311	676	323	1,080	559	313	370	500	193	58
3	96	62	255	714	322	1,320	477	380	327	454	171	58
4	89	59	241	590	340	960	419	331	536	368	150	57
5	82	65	306	1,040	1,540	815	366	286	510	341	155	56
6	76	83	448	1,470	14,100	4,650	331	257	337	463	150	52
7	72	106	420	989	6,660	2,480	308	229	241	1,290	125	55
8	70	100	345	763	1,950	1,400	293	210	217	1,020	107	83
9	67	91	293	637	e1,300	1,030	273	192	203	672	95	165
10	66	81	415	525	1,050	809	247	176	172	468	91	164
11	63	77	863	433	864	652	238	165	154	380	94	112
12	63	78	609	387	739	555	414	158	158	367	135	88
13	67	87	460	356	655	476	e1,170	154	214	382	122	71
14	73	112	440	330	578	423	1,620	152	178	336	108	63
15	77	116	503	310	528	384	1,410	162	322	294	88	57
16	96	140	450	283	483	450	1,020	139	334	252	81	62
17	83	318	1,020	264	482	525	772	130	217	219	76	2,060
18	73	298	885	358	543	461	609	153	190	196	69	1,790
19	68	620	731	735	543	444	506	185	216	176	64	746
20	64	793	609	562	530	427	437	191	199	156	67	452
21	61	435	485	458	503	1,020	395	153	167	141	75	e330
22	60	283	417	393	445	922	353	137	136	128	77	e240
23	57	209	453	345	403	707	316	120	213	125	77	181
24	57	223	1,240	313	378	577	296	119	306	126	81	154
25	55	335	981	648	349	487	292	106	1,430	145	214	132
26	60	278	691	1,200	338	430	831	96	2,010	614	147	117
27	81	230	527	866	387	391	752	151	1,020	2,300	111	106
28	102	672	433	667	420	358	532	196	e639	944	85	98
29	110	1,020	372	549	433	342	412	167	447	502	73	92
30	89	618	964	484	---	870	349	197	373	e324	67	87
31	75	---	909	412	---	922	---	583	---	e262	64	---
TOTAL	2,371	7,726	17,506	18,441	37,544	26,797	16,686	6,303	12,524	14,374	3,430	7,846
MEAN	76.5	258	565	595	1,295	864	556	203	417	464	111	262
MAX	117	1,020	1,240	1,470	14,100	4,650	1,620	583	2,010	2,300	218	2,060
MIN	55	59	241	264	322	342	238	96	136	125	64	52

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	60.8	240	667	898	1,474	1,100	945	857	288	212	84.0	176
MAX	76.5	313	982	1,785	2,722	1,462	1,522	1,653	417	464	111	262
(WY)	(2004)	(2003)	(2003)	(2002)	(2002)	(2002)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)
MIN	41.3	149	454	314	411	864	556	203	103	63.3	35.5	34.3
(WY)	(2003)	(2002)	(2002)	(2003)	(2002)	(2004)	(2004)	(2004)	(2002)	(2002)	(2002)	(2002)

03419800 CALFKILLER RIVER AT HWY 111 BELOW SPARTA, TN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	264,591		171,548			
ANNUAL MEAN	725		469		579	
HIGHEST ANNUAL MEAN					762 2003	
LOWEST ANNUAL MEAN					469 2004	
HIGHEST DAILY MEAN	17,400	Feb 16	14,100	Feb 6	20,400	Jan 24, 2002
LOWEST DAILY MEAN	37	Jul 26	52	Sep 6	13	Sep 2, 2002
ANNUAL SEVEN-DAY MINIMUM	44	Aug 27	57	Sep 1	13	Sep 2, 2002
MAXIMUM PEAK FLOW			19,400	Feb 6	a22,000	Jan 24, 2002
MAXIMUM PEAK STAGE			13.84	Feb 6	15.40	Jan 24, 2002
INSTANTANEOUS LOW FLOW			b49	Sep 6	12	Sep 4, 2002
10 PERCENT EXCEEDS	1,430		929		1,160	
50 PERCENT EXCEEDS	293		320		244	
90 PERCENT EXCEEDS	64		73		42	

a From rating curve extended above 8,000 ft<sup>3</sup>/s.

b Also occurred Sept. 7.

c Estimated

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	83	177	e8,420	314	606	729	805	1,630	72	51	70	31
2	79	161	e1,900	304	556	624	2,740	955	72	47	83	32
3	74	149	1,390	323	1,810	549	2,390	640	75	48	83	28
4	70	318	1,010	314	1,530	497	1,480	482	77	44	64	27
5	68	584	784	300	1,110	451	1,010	384	74	39	50	26
6	63	379	854	341	861	404	744	336	75	51	45	26
7	60	286	2,430	617	711	377	876	297	130	56	46	23
8	58	231	2,230	1,860	636	426	1,590	263	147	46	50	22
9	57	191	3,460	1,590	594	477	1,170	233	130	40	51	20
10	57	165	4,670	1,130	522	421	883	208	144	36	50	19
11	56	156	2,380	1,720	456	381	691	189	146	35	48	18
12	60	845	1,800	4,720	419	365	601	173	107	38	46	18
13	93	976	1,400	2,320	485	340	577	157	95	59	44	18
14	113	593	1,080	2,880	1,990	307	557	149	84	705	42	17
15	117	414	858	1,850	2,210	279	503	139	73	e498	41	17
16	114	329	709	1,380	1,520	258	419	132	68	e358	40	18
17	95	276	615	1,040	1,070	263	374	122	65	273	40	19
18	89	251	548	798	802	261	341	114	64	167	46	21
19	1,040	234	492	671	642	247	314	107	57	156	42	23
20	1,150	213	424	622	854	234	286	164	51	128	40	24
21	598	208	387	539	4,300	222	264	279	49	142	32	22
22	381	199	361	439	3,630	216	275	227	48	130	29	e22
23	277	196	570	397	2,070	231	344	175	46	108	27	20
24	234	820	723	338	1,470	231	290	145	45	95	25	19
25	206	1,280	563	314	1,070	214	252	e140	45	75	25	16
26	178	970	484	310	822	209	235	e132	46	65	25	15
27	156	719	419	288	669	209	257	110	45	59	24	16
28	147	667	375	255	631	402	259	105	41	53	25	15
29	239	594	360	305	---	570	452	97	37	48	26	15
30	245	e4,080	352	847	---	466	2,240	94	43	46	26	21
31	206	---	335	782	---	561	---	79	---	49	29	---
TOTAL	6,463	16,661	42,383	29,908	34,046	11,421	23,219	8,457	2,251	3,745	1,314	628
MEAN	208	555	1,367	965	1,216	368	774	273	75.0	121	42.4	20.9
MAX	1,150	4,080	8,420	4,720	4,300	729	2,740	1,630	147	705	83	32
MIN	56	149	335	255	419	209	235	79	37	35	24	15

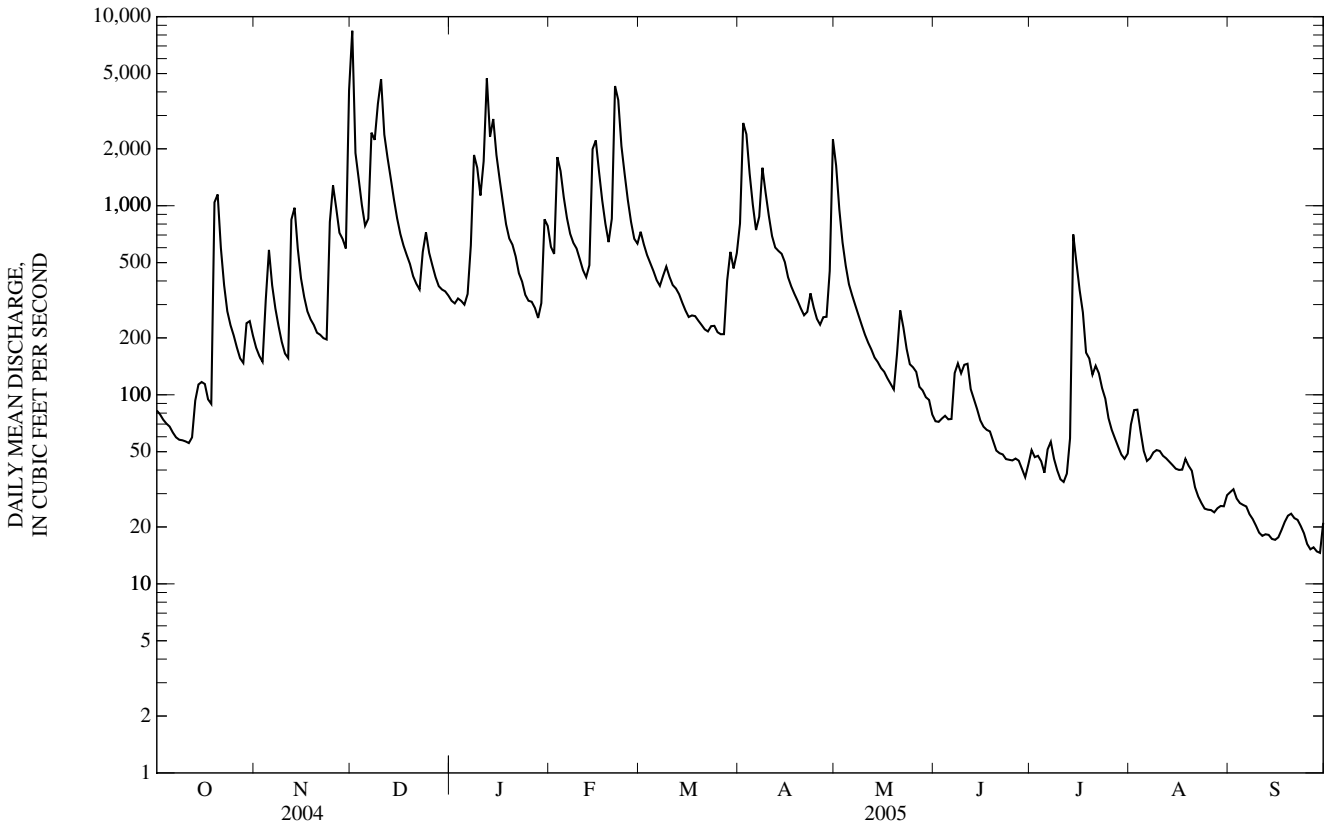
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	97.7	319	842	915	1,410	917	902	711	235	189	73.6	138
MAX	208	555	1,367	1,785	2,722	1,462	1,522	1,653	417	464	111	262
(WY)	(2005)	(2005)	(2005)	(2002)	(2003)	(2002)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)
MIN	41.3	149	454	314	411	368	556	203	75.0	63.3	35.5	20.9
(WY)	(2003)	(2002)	(2002)	(2003)	(2002)	(2005)	(2004)	(2004)	(2005)	(2002)	(2002)	(2005)

03419800 CALFKILLER RIVER AT HWY 111 BELOW SPARTA, TN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	209,452		180,496		558	
ANNUAL MEAN	572		495		762	
HIGHEST ANNUAL MEAN					469	
LOWEST ANNUAL MEAN					20,400	
HIGHEST DAILY MEAN	14,100	Feb 6	8,420	Dec 1	Jan 24, 2002	
LOWEST DAILY MEAN	52	Sep 6	15	Sep 26	Sep 2, 2002	
ANNUAL SEVEN-DAY MINIMUM	57	Sep 1	17	Sep 23	Sep 2, 2002	
MAXIMUM PEAK FLOW					a22,000	
MAXIMUM PEAK STAGE					15.40	
INSTANTANEOUS LOW FLOW			13		12	
10 PERCENT EXCEEDS	1,040		1,160	Sep 29	1,150	
50 PERCENT EXCEEDS	340		234		242	
90 PERCENT EXCEEDS	84		29		39	

a From rating curve extended above 8,000 ft<sup>3</sup>/s.  
 e Estimated



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