

03539800 OBED RIVER NEAR LANCING, TN

LOCATION.--Lat 36°04'53", long 84°40'15", Morgan County, Hydrologic Unit 06010208, on left bank at Alley Ford, 2.9 mi southwest of Lancing, 3.0 mi downstream from Clear Creek, and at mile 1.5.

DRAINAGE AREA.--518 mi².

PERIOD OF RECORD.--October 1956 to September 1968, March 1973 to December 1987, March 1999 to current year. Prior to May 1957 monthly discharge only, published in WSP 1726.

GAGE.--Data collection platform. Datum of gage is 891.91 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood on Mar. 23, 1929, reached a stage of 33.9 ft, 35 ft downstream from gage, from high water marks by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 11	0845	15,100	12.00	May 6	0030	*40,100	*19.50
Feb 16	0730	38,700	19.15	May 6	1745	34,900	18.16
Feb 22	1330	20,500	13.89	May 7	1900	29,500	16.66
Apr 10	2315	23,700	14.87				

Minimum discharge, 16 ft³/s, Aug. 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	149	532	326	891	1,540	2,280	402	1,650	e275	157	57	26
2	103	413	297	819	1,290	1,870	366	1,420	e250	254	59	22
3	79	340	279	757	1,100	1,550	343	1,250	e225	393	200	889
4	64	308	458	705	2,000	1,280	326	909	e200	299	189	4,830
5	55	367	8,500	636	2,480	1,110	404	7,840	e190	249	174	1,850
6	48	2,900	5,160	583	1,790	1,090	854	31,300	e200	202	196	763
7	49	1,990	2,620	526	1,590	1,120	5,530	21,900	e400	166	174	460
8	53	1,210	1,800	489	1,350	959	4,620	12,600	724	151	126	352
9	51	840	1,360	461	1,130	848	6,880	4,740	479	132	108	288
10	58	688	1,200	435	1,100	744	13,400	2,630	384	106	79	234
11	69	8,700	4,670	390	1,130	664	12,400	2,540	344	187	107	182
12	107	4,170	3,870	349	1,240	605	4,820	2,600	355	400	678	140
13	147	2,130	3,230	319	1,230	549	2,820	1,740	496	314	427	112
14	141	1,430	6,100	304	1,740	503	1,940	1,280	744	420	278	89
15	142	1,100	3,490	295	19,900	463	1,500	972	1,370	250	194	77
16	185	1,550	2,330	e280	31,100	436	1,200	785	1,370	179	129	66
17	304	1,580	1,720	e270	12,400	412	1,120	789	1,670	121	92	61
18	288	1,230	1,410	e250	5,010	405	1,870	1,670	2,000	85	71	54
19	224	986	1,210	e260	2,990	412	1,580	1,900	3,720	63	58	47
20	181	886	2,050	e270	2,200	442	1,260	1,410	2,200	49	43	43
21	157	780	2,060	e280	1,840	430	1,500	1,460	1,300	40	35	39
22	137	697	1,610	501	11,100	358	1,840	2,420	833	39	31	2,510
23	119	611	1,310	e425	9,320	325	1,390	1,790	574	148	83	4,910
24	103	525	2,940	e350	4,450	303	1,090	1,350	455	211	51	1,810
25	93	464	5,230	e450	2,880	281	906	980	398	147	32	987
26	87	427	3,170	e440	2,250	267	935	791	357	90	25	633
27	85	419	2,190	e425	2,600	255	907	655	e295	62	19	534
28	114	417	1,710	e400	2,730	261	722	537	e230	47	17	1,070
29	488	379	1,400	e550	---	275	598	e490	e200	38	19	754
30	889	352	1,170	e900	---	418	1,640	e400	e170	33	24	538
31	727	---	1,000	1,960	---	443	---	e325	---	35	26	---
TOTAL	5,496	38,421	75,870	15,970	131,480	21,358	75,163	113,123	22,408	5,067	3,801	24,370
MEAN	177	1,281	2,447	515	4,696	689	2,505	3,649	747	163	123	812
MAX	889	8,700	8,500	1,960	31,100	2,280	13,400	31,300	3,720	420	678	4,910
MIN	48	308	279	250	1,100	255	326	325	170	33	17	22
CFSM	0.34	2.47	4.72	0.99	9.07	1.33	4.84	7.04	1.44	0.32	0.24	1.57
IN.	0.39	2.76	5.45	1.15	9.44	1.53	5.40	8.12	1.61	0.36	0.27	1.75

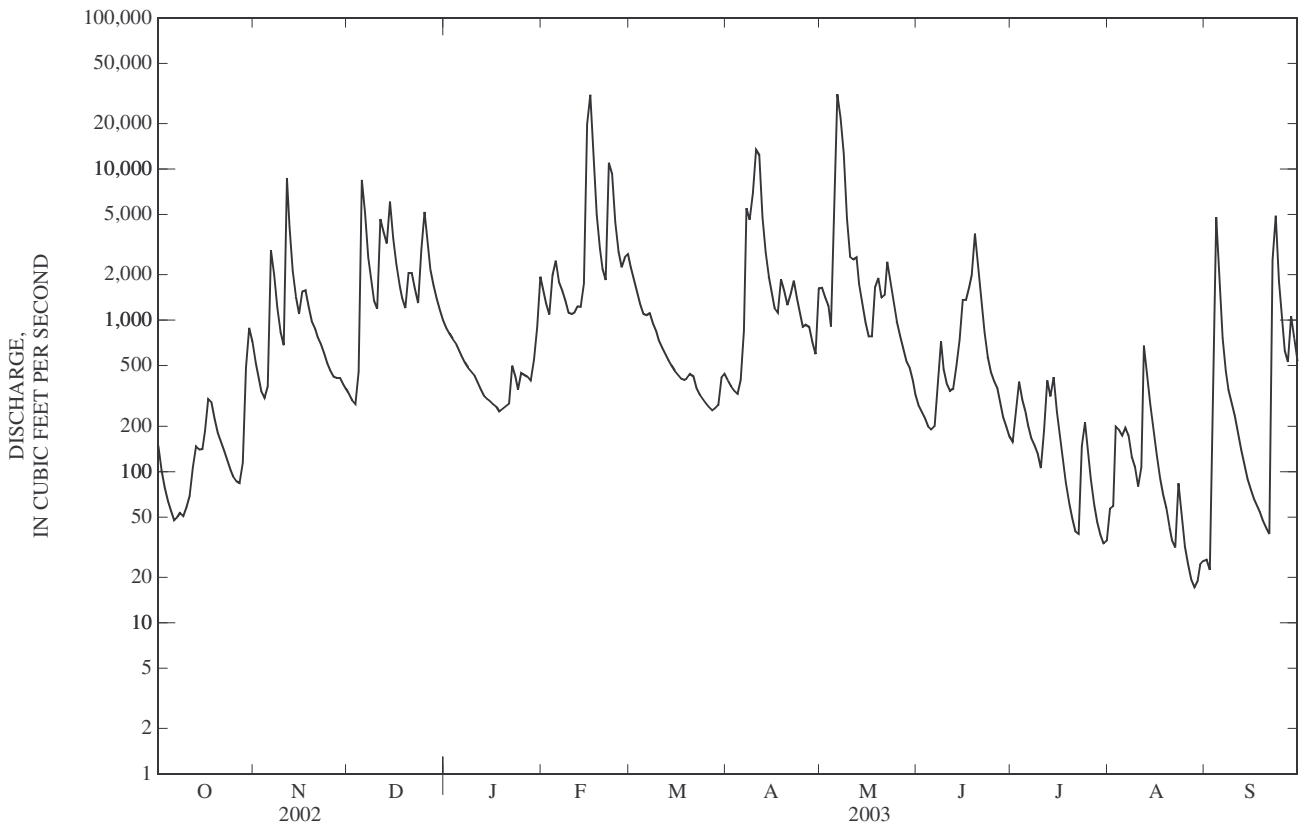
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2003, BY WATER YEAR (WY)

MEAN	271	962	1,464	1,730	1,812	2,211	1,564	1,175	390	390	148	177
MAX	1,552	3,829	3,149	4,780	4,696	6,220	3,522	4,066	1,475	2,572	587	856
(WY)	(1976)	(1958)	(1968)	(1974)	(2003)	(1975)	(1977)	(1984)	(1961)	(1979)	(1985)	(1982)
MIN	1.58	4.98	43.5	69.5	354	682	261	115	70.7	11.3	7.13	1.43
(WY)	(1981)	(1964)	(1964)	(1981)	(1968)	(1985)	(1986)	(1962)	(1958)	(1980)	(1980)	(1968)

03539800 OBED RIVER NEAR LANCING, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1957 - 2003	
ANNUAL TOTAL	440,320.0		532,527		1,010	
ANNUAL MEAN	1,206		1,459		484	
HIGHEST ANNUAL MEAN					1,553	1975
LOWEST ANNUAL MEAN					484	1981
HIGHEST DAILY MEAN	30,300	Mar 18	31,300	May 6	45,000	Apr 4, 1977
LOWEST DAILY MEAN	2.7	Sep 13	17	Aug 28	0.50	Oct 30, 1963
ANNUAL SEVEN-DAY MINIMUM	3.5	Sep 8	22	Aug 27	0.61	Oct 25, 1963
MAXIMUM PEAK FLOW			40,100	May 6	a105,000	May 27, 1973
MAXIMUM PEAK STAGE			19.50	May 6	b29.51	May 27, 1973
INSTANTANEOUS LOW FLOW			16	Aug 28	0.40	Oct 31, 1963
ANNUAL RUNOFF (CFSM)	2.33		2.82		1.95	
ANNUAL RUNOFF (INCHES)	31.62		38.24		26.48	
10 PERCENT EXCEEDS	2,730		2,840		2,340	
50 PERCENT EXCEEDS	355		489		387	
90 PERCENT EXCEEDS	10		64		19	

- a From rating curve extended above 33,000 ft³/s on basis of slope conveyance study at gage height 22.40 ft and slope-area measurement of peak flow.
- b From dross line in gage well, 30.5 ft from flood marks.
- c Estimated



03540500 EMORY RIVER AT OAKDALE, TN

LOCATION.--Lat 35°58'59", long 84°33'29", Morgan County, Hydrologic Unit 06010208, on left bank, at Oakdale, 1,000 ft downstream from highway bridge, 1,100 ft downstream from Mud Lick Creek, and at mile 18.3.

DRAINAGE AREA.--764 mi².

PERIOD OF RECORD.--June 1927 to current year. Prior to October 1929, published as Emery River at Harriman and October 1929 to September 1934 as Emery River at Oakdale.

REVISED RECORDS.--WSP 823: Drainage area. WSP 923: 1940. WSP 1386: 1928-30(M), 1932, 1943, 1945(P).

GAGE.--Data collection platform and data logger. Datum of gage is 761.38 ft above NGVD of 1929. Prior to Oct. 1, 1929, nonrecording gage at site 5.8 mi downstream at datum 43.60 ft lower, and Oct. 1, 1929, to Dec. 29, 1969, water-stage recorder at present site at datum 2.00 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 OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1857, that of Mar. 23, 1929, from report of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 19,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 11	1030	20,600	17.01	May 6	0300	57,200	25.52
Feb 16	0900	*62,800	*26.55	May 6	1830	46,300	23.47
Feb 22	1530	28,300	19.36	May 7	2130	34,700	20.98
Apr 11	0100	29,800	19.78				

Minimum discharge, 57 ft³/s, Sept. 22.

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	236	777	471	1,240	2,120	3,240	813	2,960	381	285	421	74
2	165	587	425	1,150	1,760	2,700	755	2,140	310	438	577	73
3	126	465	395	1,070	1,510	2,150	696	1,970	267	649	992	1,000
4	103	406	557	983	2,250	1,780	647	1,460	262	526	1,330	6,730
5	92	449	12,400	890	3,230	1,550	754	8,470	262	393	799	2,860
6	82	3,460	7,520	828	2,410	1,520	1,210	42,700	244	340	673	1,230
7	80	2,710	3,790	753	2,130	1,540	7,370	26,500	1,350	286	523	748
8	83	1,610	2,500	701	1,820	1,370	6,720	17,200	2,050	267	384	555
9	83	1,150	1,860	673	1,540	1,250	9,090	6,650	1,170	240	297	432
10	81	932	1,570	641	1,480	1,130	16,200	3,660	758	219	248	349
11	112	12,100	5,290	585	1,490	1,010	17,800	3,200	559	635	197	267
12	190	6,060	5,330	523	1,560	917	7,030	3,490	636	927	639	210
13	236	2,950	4,530	470	1,580	839	4,110	2,300	680	644	596	170
14	223	1,910	9,240	444	2,010	775	2,770	1,690	1,100	918	396	140
15	196	1,460	5,190	431	25,800	716	2,090	1,320	1,450	624	288	121
16	244	1,840	3,340	408	48,600	672	1,680	1,250	1,870	471	227	104
17	369	1,990	2,410	407	19,000	634	1,820	1,840	3,340	426	194	92
18	388	1,610	1,900	335	7,320	638	4,650	5,170	4,420	294	172	83
19	299	1,320	1,640	377	4,340	665	2,990	3,800	7,310	220	135	75
20	240	1,200	3,690	386	3,110	884	2,170	2,510	3,730	172	107	67
21	206	1,110	3,420	428	2,570	892	2,140	2,570	2,080	144	89	61
22	183	1,050	2,520	702	14,400	757	2,620	3,930	1,350	517	79	3,120
23	156	922	1,960	723	13,200	679	1,990	2,850	957	552	214	8,170
24	136	803	3,430	507	6,200	622	1,590	2,050	696	495	190	2,710
25	123	708	7,190	647	3,990	570	1,340	1,500	525	341	117	1,500
26	118	641	4,550	650	3,090	531	1,290	1,210	402	246	85	997
27	114	614	3,110	608	3,470	496	1,250	993	353	184	72	841
28	139	601	2,390	550	3,810	473	1,030	775	360	138	64	1,590
29	705	549	1,910	679	---	526	868	636	325	127	85	1,200
30	1,270	511	1,590	2,940	---	768	2,070	554	288	113	77	873
31	1,090	---	1,370	2,720	---	861	---	466	---	122	73	---
TOTAL	7,868	52,495	107,488	24,449	185,790	33,155	107,553	157,814	39,485	11,953	10,340	36,442
MEAN	254	1,750	3,467	789	6,635	1,070	3,585	5,091	1,316	386	334	1,215
MAX	1,270	12,100	12,400	2,940	48,600	3,240	17,800	42,700	7,310	927	1,330	8,170
MIN	80	406	395	335	1,480	473	647	466	244	113	64	61
MED	165	1,080	2,520	647	2,830	839	2,030	2,300	688	340	214	493
CFSM	0.33	2.29	4.54	1.03	8.69	1.40	4.69	6.66	1.72	0.50	0.44	1.59
IN.	0.38	2.56	5.23	1.19	9.05	1.61	5.24	7.68	1.92	0.58	0.50	1.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2003, BY WATER YEAR (WY)

MEAN	278	1,057	2,209	2,813	3,014	3,125	2,190	1,380	721	494	279	240
MAX	1,971	6,214	7,938	7,941	8,136	8,962	5,808	5,804	6,731	3,694	2,107	1,562
(WY)	(1976)	(1958)	(1991)	(1937)	(1939)	(1975)	(1977)	(1973)	(1989)	(1967)	(1942)	(1944)
MIN	0.57	0.37	42.1	97.8	422	946	374	140	16.3	5.55	7.70	0.91
(WY)	(1954)	(1954)	(1940)	(1981)	(1941)	(1985)	(1986)	(1962)	(1936)	(1944)	(1930)	(1954)

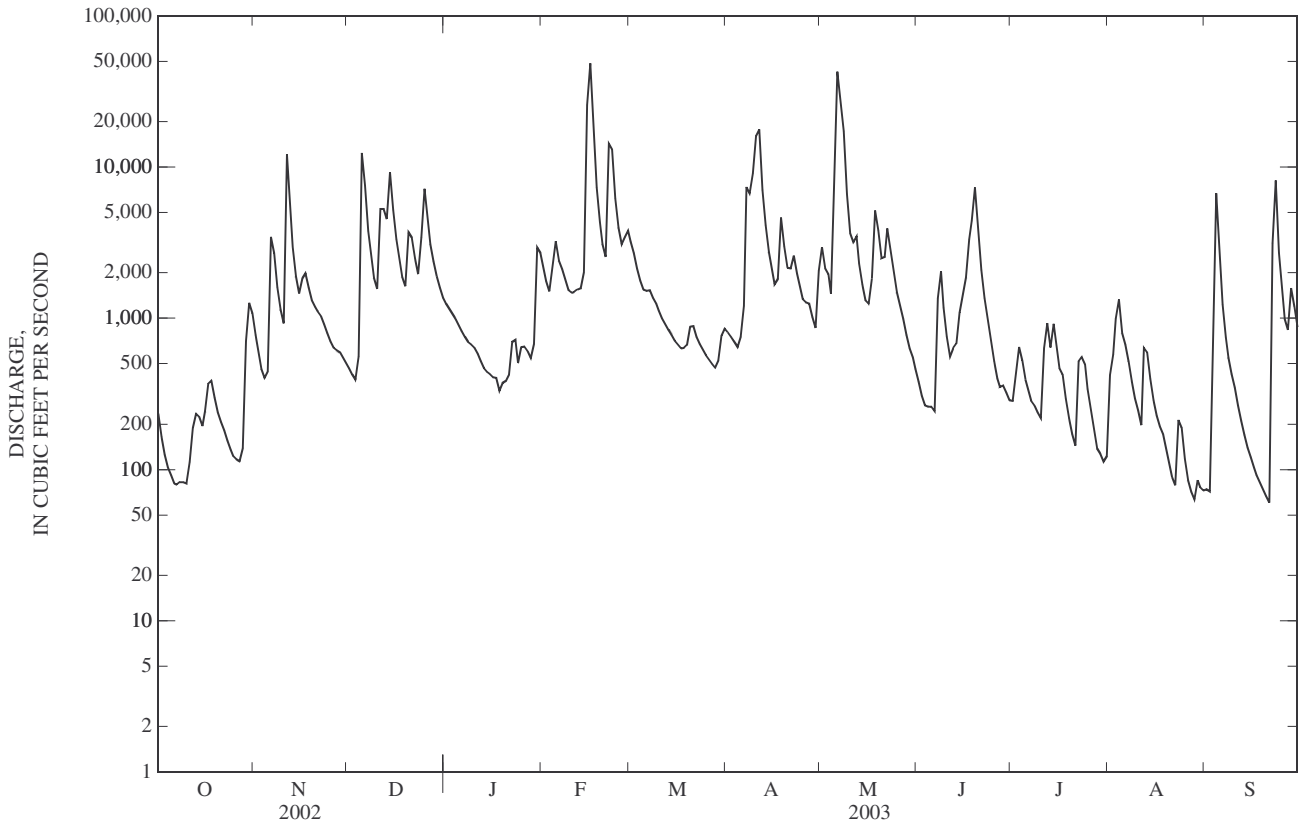
03540500 EMORY RIVER AT OAKDALE, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1927 - 2003	
ANNUAL TOTAL	608,125.3		774,832			
ANNUAL MEAN	1,666		2,123		1,476	
HIGHEST ANNUAL MEAN					2,653	1973
LOWEST ANNUAL MEAN					670	1981
HIGHEST DAILY MEAN	44,100	Mar 18	48,600	Feb 16	103,000	Dec 23, 1990
LOWEST DAILY MEAN	5.1	Sep 13	61	Sep 21	a0.00	Aug 13, 1944
ANNUAL SEVEN-DAY MINIMUM	5.5	Sep 8	74	Aug 27	0.00	Nov 7, 1953
MAXIMUM PEAK FLOW			62,800	Feb 16	b195,000	Mar 23, 1929
MAXIMUM PEAK STAGE			26.55	Feb 16	c41.20	Mar 23, 1929
INSTANTANEOUS LOW FLOW			57	Sep 22	0.00	Aug 13, 1944
ANNUAL RUNOFF (CFSM)	2.18		2.78		1.93	
ANNUAL RUNOFF (INCHES)	29.61		37.73		26.25	
10 PERCENT EXCEEDS	3,630		4,200		3,420	
50 PERCENT EXCEEDS	508		803		555	
90 PERCENT EXCEEDS	18		137		20	

a Also occurred on Aug. 14, 15, 1944; Nov. 7, 8, 9, 1952.

b From rating curve extended above 85,000 ft³/s confirmed by slope-area measurement of May 28, 1973, flood at gage height 38.68.

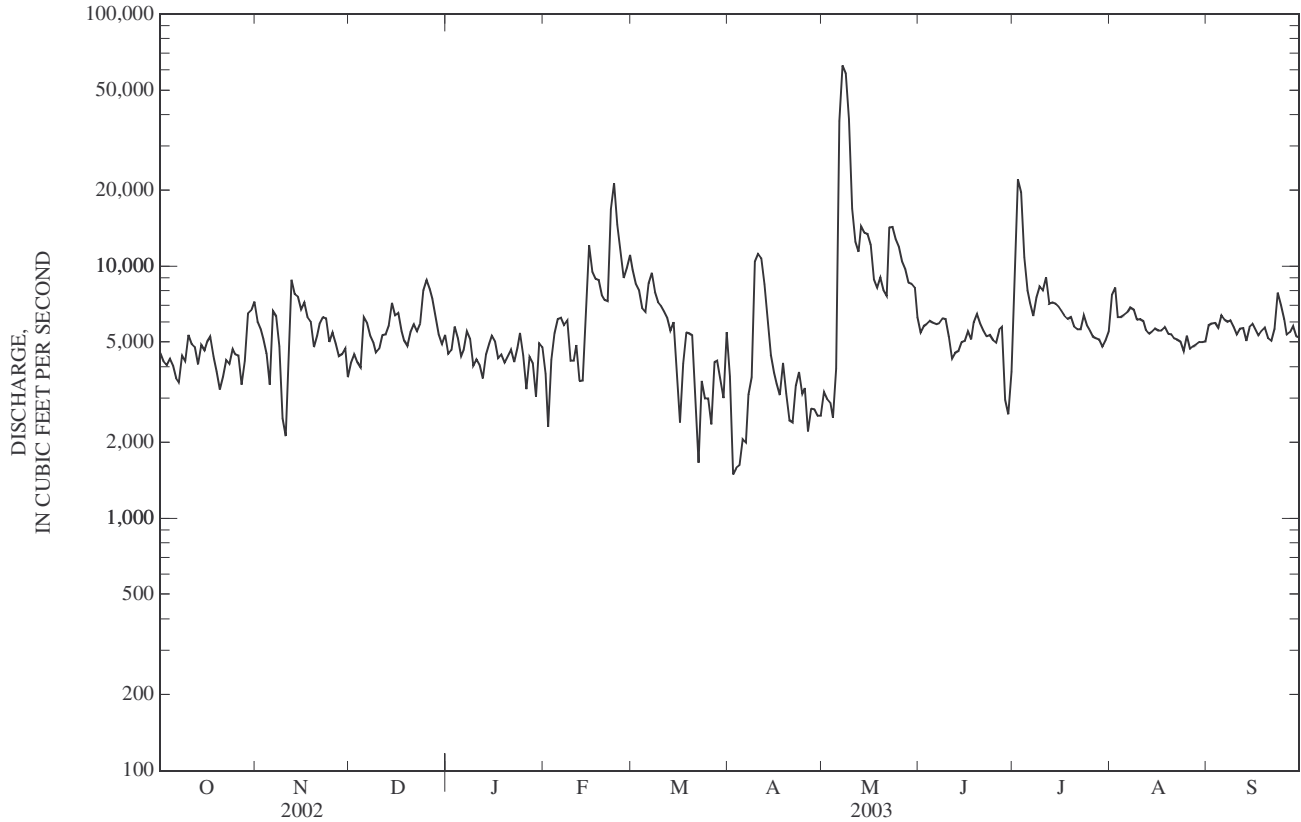
c From floodmarks and flood profile, present site and datum, 61.1 ft at site and datum then in use.



03566000 HIWASSEE RIVER AT CHARLESTON, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1964 - 2003	
ANNUAL TOTAL	1,404,941		2,333,620		4,647	
ANNUAL MEAN	3,849		6,393		1,940	
HIGHEST ANNUAL MEAN					6,891	1990
LOWEST ANNUAL MEAN					1,940	1988
HIGHEST DAILY MEAN	22,300	Jan 25	62,700	May 7	62,700	May 7, 2003
LOWEST DAILY MEAN	781	Apr 27	1,490	Apr 2	524	May 24, 1981
ANNUAL SEVEN-DAY MINIMUM	1,220	Apr 25	2,210	Apr 2	817	Oct 29, 1988
MAXIMUM PEAK FLOW			66,800	May 7	66,800	May 7, 2003
MAXIMUM PEAK STAGE			28.55	May 7	29.42	Mar 28, 1994
10 PERCENT EXCEEDS	6,320		8,960		7,600	
50 PERCENT EXCEEDS	3,220		5,470		4,030	
90 PERCENT EXCEEDS	1,740		3,340		2,080	

e Estimated



035661285 NORTH MOUSE CREEK NEAR ROCKY MOUNT HOLLOW NEAR ATHENS, TN

LOCATION.--Lat 35°26'55", long 84°39'23", McMinn County, Hydrologic Unit 06020002, on right bank at downstream end of culvert at county road, 1.5 mi west of Athens.

DRAINAGE AREA.--42.1 mi²

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Data collection platform. Datum of gage is 775 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good, except for 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.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 16	1015	4,160	15.19	May 6	unknown	unknown	*17.70
Feb 22	1330	2,510	14.29				

Minimum discharge, 26 ft³/s, Oct. 4, 10, Sept. 22.

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	33	40	58	99	69	251	64	78	92	90	63	32
2	31	37	57	93	66	214	63	84	87	183	55	32
3	29	36	57	93	65	185	62	79	87	87	59	36
4	28	38	75	83	109	168	61	71	102	69	55	57
5	32	108	195	79	80	158	74	e1,050	80	62	52	37
6	30	121	113	75	81	222	63	e7,000	76	59	50	33
7	31	66	95	71	109	163	175	1,460	85	58	47	33
8	30	57	87	71	88	149	174	879	76	56	45	33
9	28	51	82	70	84	141	517	392	70	52	42	32
10	27	49	89	66	88	133	614	278	67	67	41	31
11	42	248	136	62	84	125	385	285	80	65	41	31
12	31	139	101	59	77	119	248	211	80	51	43	31
13	30	111	207	59	73	113	197	174	68	63	49	30
14	28	97	199	59	194	108	167	156	63	71	43	29
15	35	95	141	58	374	103	149	143	61	55	40	33
16	70	98	123	56	1,910	99	137	174	64	53	38	30
17	43	86	111	54	621	95	139	147	78	51	37	29
18	38	77	102	52	320	93	140	189	79	48	53	29
19	35	77	136	51	246	97	120	149	68	45	40	28
20	33	73	372	51	212	92	110	134	61	43	38	28
21	36	164	173	62	209	85	109	191	58	44	38	27
22	33	115	146	58	1,470	80	99	302	56	74	37	83
23	31	95	128	52	490	77	92	188	53	62	36	59
24	30	87	300	49	281	75	88	161	50	50	35	36
25	30	82	210	49	225	72	87	145	49	47	35	33
26	29	79	164	48	221	71	100	134	48	44	35	32
27	29	75	145	47	547	69	85	122	51	42	34	47
28	e50	67	130	47	352	67	79	114	47	42	34	37
29	e60	64	118	100	---	74	75	107	46	45	34	31
30	e60	62	110	88	---	70	103	102	47	42	33	29
31	44	---	104	72	---	66	---	97	---	73	33	---
TOTAL	1,116	2,594	4,264	2,033	8,745	3,634	4,576	14,796	2,029	1,893	1,315	1,068
MEAN	36.0	86.5	138	65.6	312	117	153	477	67.6	61.1	42.4	35.6
MAX	70	248	372	100	1,910	251	614	7,000	102	183	63	83
MIN	27	36	57	47	65	66	61	71	46	42	33	27
CFSM	0.86	2.05	3.27	1.56	7.42	2.78	3.62	11.3	1.61	1.45	1.01	0.85
IN.	0.99	2.29	3.77	1.80	7.73	3.21	4.04	13.07	1.79	1.67	1.16	0.94

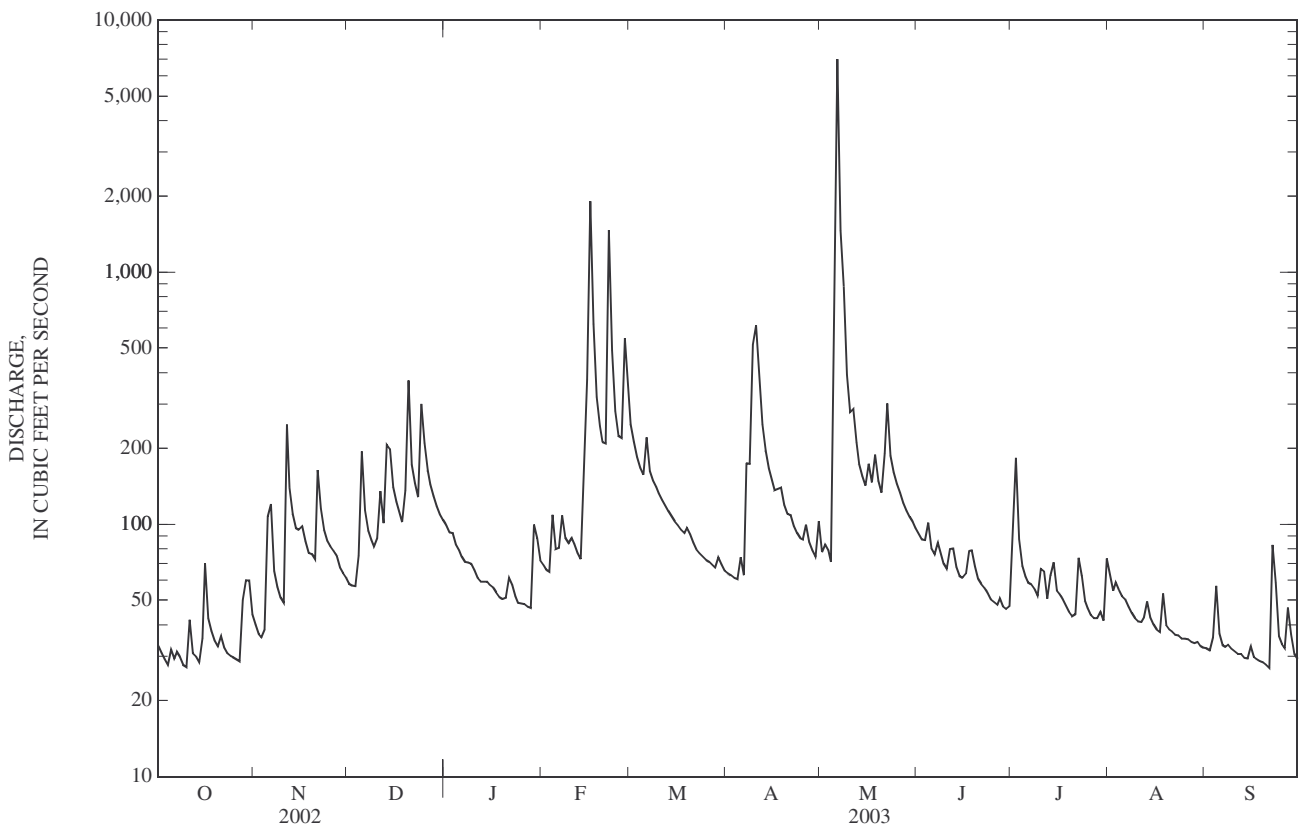
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		
MEAN	31.9	48.9	67.4	129	152	159	140	123	70.8	54.1	36.3	32.8
MAX	59.5	113	139	225	312	297	381	477	191	113	80.7	43.4
(WY)	(1996)	(1996)	(1997)	(1996)	(2003)	(1994)	(1994)	(2003)	(1997)	(1994)	(1994)	(2000)
MIN	15.1	15.2	19.7	48.2	58.2	64.2	53.1	41.8	32.2	25.7	21.2	19.7
(WY)	(1994)	(2002)	(2000)	(2000)	(2000)	(2000)	(1995)	(2001)	(2002)	(2002)	(2002)	(2001)

035661285 NORTH MOUSE CREEK NEAR ROCKY MOUNT HOLLOW NEAR ATHENS, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1994 - 2003	
ANNUAL TOTAL	29,474		48,063		86.7	
ANNUAL MEAN	80.8		132		48.1	
HIGHEST ANNUAL MEAN					132	2003
LOWEST ANNUAL MEAN					48.1	2000
HIGHEST DAILY MEAN	1,630	Mar 18	e7,000	May 6	e7,000	May 6, 2003
LOWEST DAILY MEAN	15	Sep 7	27	Oct 10	13	Oct 28, 1993
ANNUAL SEVEN-DAY MINIMUM	15	Sep 7	29	Sep 15	13	Nov 17, 2001
MAXIMUM PEAK FLOW			undetermined		5,790	Apr 11, 1994
MAXIMUM PEAK STAGE			a17.70	May 6	a17.70	May 6, 2003
INSTANTANEOUS LOW FLOW			b26	Oct 4	c12	Oct 28, 1993
ANNUAL RUNOFF (CFSM)	1.92		3.13		2.06	
ANNUAL RUNOFF (INCHES)	26.04		42.47		27.99	
10 PERCENT EXCEEDS	144		198		160	
50 PERCENT EXCEEDS	45		71		51	
90 PERCENT EXCEEDS	20		33		21	

- a From high-water mark.
- b Also occurred Oct. 10, Sept. 22.
- c Also occurred Oct. 29, 1993; Nov. 19, 21, 2001.
- e Estimated



03566525 NORTH CHICKAMAUGA CREEK NEAR MONTLAKE, TN—Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR			FOR 2001 WATER YEAR			WATER YEARS 2000 - 2001		
ANNUAL TOTAL	7,324.0			36,966.82					
ANNUAL MEAN	120			111			111		
HIGHEST ANNUAL MEAN							111		
LOWEST ANNUAL MEAN							111		
HIGHEST DAILY MEAN	1,070	Nov	9	3,740	Jan	19	3,740	Jan	19, 2001
LOWEST DAILY MEAN	1.0	Nov	1	0.55	Jul	20	0.55	Jul	20, 2001
ANNUAL SEVEN-DAY MINIMUM	1.0	Nov	1	0.81	Jul	15	0.81	Jul	15, 2001
MAXIMUM PEAK STAGE				14.46	Jan	19	14.46	Jan	19, 2001
INSTANTANEOUS LOW FLOW				0.48	Jul	20	0.48	Jul	20, 2001
ANNUAL RUNOFF (CFSM)	1.98			1.83			1.83		
ANNUAL RUNOFF (INCHES)	4.50			22.71			24.84		
10 PERCENT EXCEEDS	231			237			237		
50 PERCENT EXCEEDS	60			50			50		
90 PERCENT EXCEEDS	1.0			2.8			2.8		

e Estimated

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	7.5	136	25	141	36	e420	68	9.6	1.5	1.4	0.40
2	2.1	6.8	85	21	145	69	315	97	7.6	1.4	1.0	0.25
3	1.6	6.4	60	18	134	158	229	302	5.5	4.2	0.66	0.25
4	1.3	6.1	42	14	120	149	181	e1,030	4.5	4.8	0.43	0.25
5	1.1	5.1	31	12	102	131	145	e570	4.1	4.2	0.30	0.26
6	0.98	3.2	24	14	101	116	120	289	4.3	3.4	0.23	0.38
7	0.78	2.9	24	15	165	102	99	212	5.4	2.6	0.15	0.34
8	0.67	2.7	42	11	228	91	85	157	5.1	1.8	0.08	0.30
9	0.60	2.6	45	9.5	209	94	85	116	3.9	1.5	0.03	0.28
10	0.55	2.5	54	11	182	117	77	101	3.0	2.0	0.00	0.25
11	0.51	2.7	124	13	157	107	67	99	2.6	4.8	0.00	0.25
12	0.56	2.7	113	13	133	286	61	78	2.2	13	0.00	0.25
13	0.73	2.8	e460	12	115	517	59	121	1.9	11	0.00	0.24
14	5.1	2.8	e1,840	11	99	336	52	203	1.8	18	0.00	0.30
15	10	2.6	e530	10	88	243	46	149	3.2	20	0.00	0.40
16	8.8	2.5	252	8.7	80	272	39	111	5.1	13	0.00	0.38
17	7.1	2.4	e350	7.9	71	476	105	87	3.9	9.1	0.01	0.32
18	4.8	2.4	e540	8.5	59	e1,340	85	270	3.4	7.3	0.06	0.33
19	3.5	2.4	275	e910	49	e650	72	220	3.0	5.9	0.04	0.36
20	2.9	2.4	184	e740	66	399	59	161	2.6	4.7	0.00	0.35
21	2.5	2.3	132	363	82	340	46	118	2.1	3.7	0.00	0.59
22	2.1	2.4	100	248	72	254	39	90	1.8	3.0	0.00	0.72
23	2.0	2.6	106	e2,050	70	206	30	71	1.8	2.5	0.00	0.88
24	2.0	7.4	133	e2,330	66	169	24	50	1.7	2.0	0.00	0.86
25	14	173	116	e1,720	59	136	40	32	1.3	1.4	0.17	1.3
26	18	78	98	e570	57	134	33	21	1.2	0.63	2.4	33
27	15	43	81	309	50	137	26	18	1.8	0.49	3.7	183
28	14	28	69	231	40	123	26	103	2.2	1.7	1.4	97
29	12	21	56	188	---	112	23	50	2.2	2.3	0.92	36
30	10	175	41	155	---	e1,760	17	24	1.6	1.8	0.82	14
31	8.7	---	31	128	---	e1,190	---	14	---	1.5	0.68	---
TOTAL	156.68	604.2	6,174	10,176.6	2,940	10,250	2,705	5,032	100.4	155.22	14.48	373.49
MEAN	5.05	20.1	199	328	105	331	90.2	162	3.35	5.01	0.47	12.4
MAX	18	175	1,840	2,330	228	1,760	420	1,030	9.6	20	3.7	183
MIN	0.51	2.3	24	7.9	40	36	17	14	1.2	0.49	0.00	0.24
CFSM	0.08	0.33	3.29	5.42	1.73	5.46	1.49	2.68	0.06	0.08	0.01	0.21
IN.	0.10	0.37	3.79	6.25	1.81	6.30	1.66	3.09	0.06	0.10	0.01	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

MEAN	5.05	67.5	162	289	201	267	108	99.5	22.3	7.89	9.49	10.7
MAX	5.05	115	199	328	297	331	125	162	41.2	10.8	18.5	12.4
(WY)	(2002)	(2001)	(2002)	(2002)	(2001)	(2002)	(2001)	(2002)	(2001)	(2001)	(2001)	(2002)
MIN	5.05	20.1	125	249	105	203	90.2	36.7	3.35	5.01	0.47	8.89
(WY)	(2002)	(2002)	(2001)	(2001)	(2002)	(2001)	(2002)	(2001)	(2002)	(2002)	(2002)	(2001)

03566525 NORTH CHICKAMAUGA CREEK NEAR MONTLAKE, TN—Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 2000 - 2002	
ANNUAL TOTAL	36,577.70		38,682.07			
ANNUAL MEAN	100		106		108	
HIGHEST ANNUAL MEAN					111	2001
LOWEST ANNUAL MEAN					106	2002
HIGHEST DAILY MEAN	3,740	Jan 19	2,330	Jan 24	3,740	Jan 19, 2001
LOWEST DAILY MEAN	0.51	Oct 11	0.00	Aug 10	0.00	Aug 10, 2002
ANNUAL SEVEN-DAY MINIMUM	0.63	Oct 7	0.00	Aug 10	0.00	Aug 10, 2002
MAXIMUM PEAK STAGE			12.06	Jan 24	14.46	Jan 19, 2001
INSTANTANEOUS LOW FLOW			a0.00	Aug 9	a0.00	Aug 9, 2002
ANNUAL RUNOFF (CFSM)	1.66		1.75		1.79	
ANNUAL RUNOFF (INCHES)	22.47		23.77		24.28	
10 PERCENT EXCEEDS	232		236		233	
50 PERCENT EXCEEDS	29		14		33	
90 PERCENT EXCEEDS	2.4		0.36		1.0	

a Also occurred on Aug. 10-25.

e Estimated

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	6.9	65	29	114	e110	296	67	85	15	e80	85	40
2	4.5	43	23	105	e95	234	62	80	15	e740	82	38
3	3.2	32	20	102	e85	191	53	81	15	280	135	31
4	3.1	40	31	94	e120	161	45	61	15	195	100	117
5	7.2	e310	318	89	e120	143	117	e1,080	15	191	88	118
6	15	e740	282	84	e120	214	154	e6,010	15	200	76	87
7	17	271	207	e85	e120	221	306	e3,390	16	219	88	71
8	45	179	163	e80	e100	194	295	e1,170	23	180	94	62
9	25	126	128	e75	e100	169	e690	e480	15	132	90	51
10	15	127	137	e70	e100	140	518	e260	15	116	76	41
11	21	e580	e630	e60	e110	120	464	e320	16	250	158	31
12	34	340	360	e50	e120	102	298	e300	31	206	222	24
13	23	224	e440	e45	e120	88	221	e210	23	203	343	18
14	14	170	e600	e40	e1,030	78	178	e160	30	283	318	14
15	9.5	138	312	e35	e2,290	68	145	120	59	202	215	12
16	14	154	229	e25	e5,180	60	122	118	45	149	160	9.7
17	17	132	183	e25	e1,090	52	137	106	33	155	118	7.0
18	12	109	145	e30	e560	65	174	e1,540	44	115	90	5.4
19	8.1	99	162	e30	e310	95	153	e740	127	88	72	4.2
20	6.2	92	e750	e30	e280	206	134	323	86	71	58	3.5
21	5.0	97	355	e35	227	185	131	e770	54	52	42	3.0
22	4.2	94	246	e30	e1,970	156	114	e680	32	65	32	e530
23	3.5	83	192	e25	e760	133	96	318	20	100	33	302
24	3.0	73	e1,160	e30	365	112	86	219	15	71	25	136
25	2.8	64	e720	e40	256	95	105	160	15	46	20	82
26	2.8	54	356	e35	230	82	248	127	15	29	27	55
27	2.8	54	250	e50	477	71	206	91	15	20	46	46
28	15	44	198	e40	447	58	167	63	15	24	62	50
29	112	38	160	e50	---	63	133	37	16	28	34	34
30	116	35	129	e130	---	80	107	22	18	22	23	25
31	88	---	109	e120	---	71	---	15	---	34	28	---
TOTAL	655.8	4,607	9,024	1,853	16,892	4,003	5,726	19,136	868	4,546	3,040	2,047.8
MEAN	21.2	154	291	59.8	603	129	191	617	28.9	147	98.1	68.3
MAX	116	740	1,160	130	5,180	296	690	6,010	127	740	343	530
MIN	2.8	32	20	25	85	52	45	15	15	20	20	3.0
CFSM	0.35	2.54	4.81	0.99	9.96	2.13	3.15	10.2	0.48	2.42	1.62	1.13
IN.	0.40	2.83	5.54	1.14	10.38	2.46	3.52	11.76	0.53	2.79	1.87	1.26

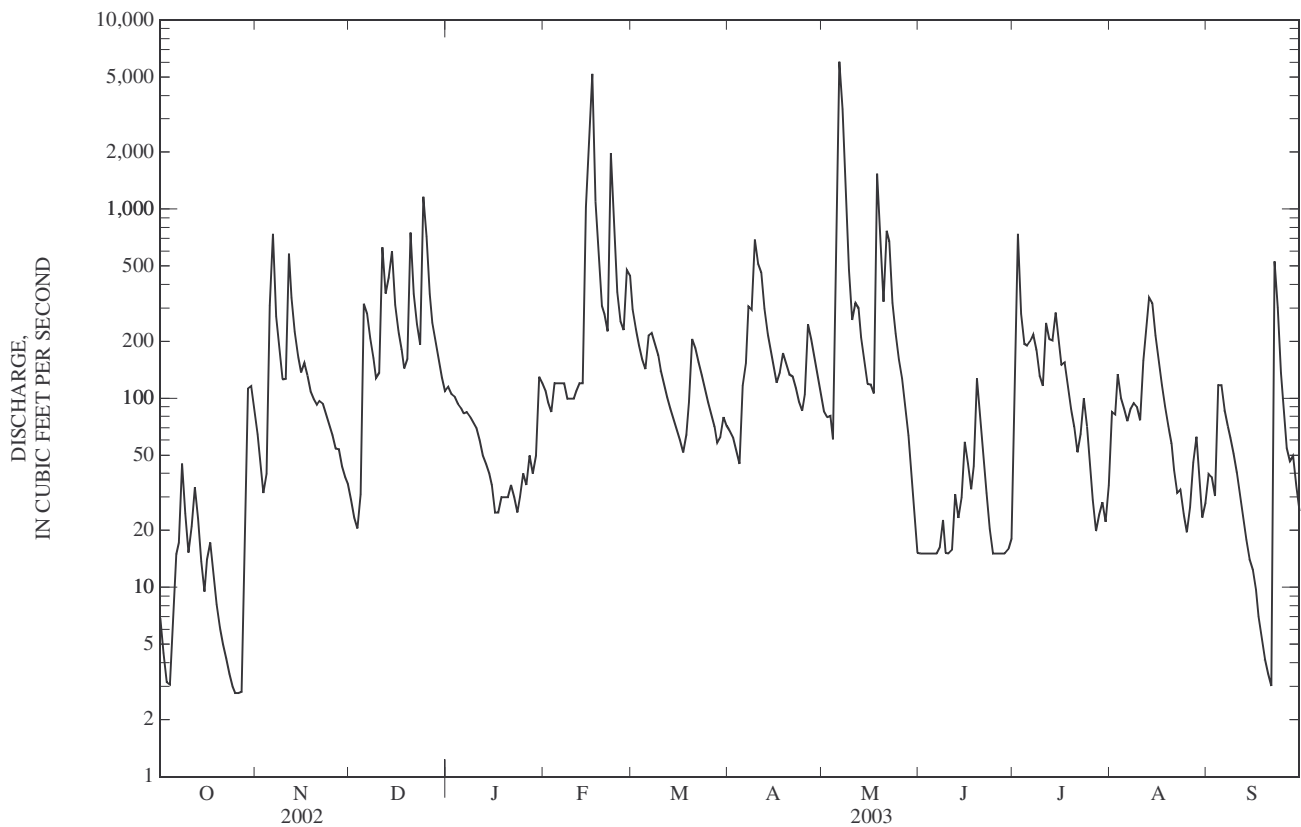
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	13.1	96.2	205	212	335	221	135	272	24.5	54.1	39.0	29.9
MAX	21.2	154	291	328	603	331	191	617	41.2	147	98.1	68.3
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2002)	(2003)	(2003)	(2001)	(2003)	(2003)	(2003)
MIN	5.05	20.1	125	59.8	105	129	90.2	36.7	3.35	5.01	0.47	8.89
(WY)	(2002)	(2002)	(2001)	(2003)	(2002)	(2003)	(2002)	(2001)	(2002)	(2002)	(2002)	(2001)

03566525 NORTH CHICKAMAUGA CREEK NEAR MONTLAKE, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL TOTAL	46,033.99		72,398.6		139	
ANNUAL MEAN	126		198		198	
HIGHEST ANNUAL MEAN					106 2003	
LOWEST ANNUAL MEAN					106 2002	
HIGHEST DAILY MEAN	2,330	Jan 24	6,010	May 6	6,010	May 6, 2003
LOWEST DAILY MEAN	0.00	Aug 10	2.8	Oct 25	0.00	Aug 10, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 10	3.4	Oct 21	0.00	Aug 10, 2002
MAXIMUM PEAK STAGE			a17.94	May 6	a17.94	May 6, 2003
INSTANTANEOUS LOW FLOW			b0.58	Sep 21	c0.00	Aug 9, 2002
ANNUAL RUNOFF (CFSM)	2.08		3.28		2.30	
ANNUAL RUNOFF (INCHES)	28.28		44.48		31.22	
10 PERCENT EXCEEDS	305		341		283	
50 PERCENT EXCEEDS	36		90		55	
90 PERCENT EXCEEDS	0.36		15		2.0	

- a From high-water marks.
- b Also occurred on Sept. 22.
- c Also occurred on Aug. 10-25, 2002.
- e Estimated



0356653019 NORTH CHICKAMAUGA CREEK AT

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	121	21	122	21	407	46	3.2	0.00	0.00	0.00
2	0.00	0.00	65	17	126	44	218	76	0.03	0.00	0.00	0.00
3	0.00	0.00	36	15	115	123	146	277	0.00	0.00	0.00	0.00
4	0.00	0.00	21	13	102	116	90	1,030	0.00	0.00	0.00	0.00
5	0.00	0.00	12	9.4	85	99	69	557	0.00	0.00	0.00	0.00
6	0.00	0.00	7.1	10	83	88	61	312	0.00	0.00	0.00	0.00
7	0.00	0.00	6.1	12	134	77	51	208	0.00	0.00	0.00	0.00
8	0.00	0.00	20	7.6	210	67	39	149	0.00	0.00	0.00	0.00
9	0.00	0.00	23	5.7	191	68	55	104	0.00	0.00	0.00	0.00
10	0.00	0.00	24	6.9	163	89	74	87	0.00	0.00	0.00	0.00
11	0.00	0.00	88	9.3	134	81	65	86	0.00	0.00	0.00	0.00
12	0.00	0.00	82	8.9	108	262	56	67	0.00	0.00	0.00	0.00
13	0.00	0.00	446	8.2	92	534	47	102	0.00	0.00	0.00	0.00
14	0.00	0.00	1,840	7.4	79	355	40	196	0.00	0.00	0.00	0.00
15	0.00	0.00	524	6.4	69	230	32	140	0.00	0.00	0.00	0.00
16	0.00	0.00	252	4.9	61	264	28	99	0.00	0.00	0.00	0.00
17	0.00	0.00	345	3.9	52	482	79	76	0.00	0.00	0.00	0.00
18	0.00	0.00	534	4.3	43	1,340	70	265	0.00	0.00	0.00	0.00
19	0.00	0.00	285	900	35	636	56	215	0.00	0.00	0.00	0.00
20	0.00	0.00	176	730	46	437	43	151	0.00	0.00	0.00	0.00
21	0.00	0.00	119	400	62	368	33	104	0.00	0.00	0.00	0.00
22	0.00	0.00	88	263	52	246	27	77	0.00	0.00	0.00	0.00
23	0.00	0.00	91	2,050	49	188	21	59	0.00	0.00	0.00	0.00
24	0.00	0.00	115	2,330	45	149	17	41	0.00	0.00	0.00	0.00
25	0.00	127	102	1,720	40	117	26	26	0.00	0.00	0.00	0.00
26	0.00	56	86	562	38	113	24	17	0.00	0.00	0.00	0.00
27	0.00	23	72	356	33	116	19	12	0.00	0.00	0.00	151
28	0.00	11	60	232	22	102	18	81	0.00	0.00	0.00	82
29	0.00	4.1	49	177	---	95	16	43	0.00	0.00	0.00	23
30	0.00	159	37	143	---	1,760	12	21	0.00	0.00	0.00	3.7
31	0.00	---	27	112	---	1,190	---	10	---	0.00	0.00	---
TOTAL	0.00	380.10	5,753.2	10,145.9	2,391	9,857	1,939	4,734	3.23	0.00	0.00	259.70
MEAN	0.000	12.7	186	327	85.4	318	64.6	153	0.11	0.000	0.000	8.66
MAX	0.00	159	1,840	2,330	210	1,760	407	1,030	3.2	0.00	0.00	151
MIN	0.00	0.00	6.1	3.9	22	21	12	10	0.00	0.00	0.00	0.00
CFSM	0.00	0.20	2.92	5.15	1.34	5.00	1.02	2.40	0.00	0.00	0.00	0.14
IN.	0.00	0.22	3.36	5.93	1.40	5.76	1.13	2.77	0.00	0.00	0.00	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

MEAN	0.000	55.5	148	280	184	251	78.0	79.0	5.28	2.05	1.76	4.33
MAX	0.000	98.4	186	327	282	318	91.3	153	10.5	4.10	3.52	8.66
(WY)	(2002)	(2001)	(2002)	(2002)	(2001)	(2002)	(2001)	(2002)	(2001)	(2001)	(2001)	(2002)
MIN	0.000	12.7	110	234	85.4	184	64.6	5.31	0.11	0.000	0.000	0.000
(WY)	(2002)	(2002)	(2001)	(2001)	(2002)	(2001)	(2002)	(2001)	(2002)	(2002)	(2002)	(2001)

TENNESSEE RIVER BASIN

0356653019 NORTH CHICKAMAUGA CREEK AT

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	0.02	54	23	102	88	306	49	65	6.4	59	16	0.00
2	0.00	33	19	94	74	221	45	59	0.31	726	33	0.00
3	0.00	21	17	91	65	171	41	61	0.00	325	95	0.00
4	0.00	26	21	84	98	132	34	46	0.00	187	67	19
5	0.00	291	330	80	104	114	85	1,080	0.00	180	54	53
6	0.00	734	304	72	99	192	118	6,010	0.00	195	37	14
7	0.00	295	201	63	97	204	300	3,390	0.00	221	47	0.08
8	24	171	152	59	80	173	292	1,170	31	174	58	0.00
9	12	113	114	55	73	144	682	484	7.7	116	55	0.00
10	3.2	112	117	48	81	110	543	246	0.00	96	41	0.00
11	5.4	568	624	40	91	91	498	303	0.00	263	120	0.00
12	17	391	405	31	104	77	306	280	21	201	192	0.00
13	9.4	229	420	26	101	66	205	191	34	183	338	0.00
14	1.9	164	585	19	1,030	58	156	135	8.2	293	333	0.00
15	0.01	126	346	17	2,290	49	115	112	0.02	189	190	0.00
16	0.00	145	228	15	5,180	44	93	109	0.00	132	130	0.00
17	2.0	120	173	16	1,090	39	106	96	0.00	135	92	0.00
18	0.49	97	133	11	547	44	146	1,540	0.00	98	67	0.00
19	0.00	88	143	12	360	63	120	732	105	73	46	0.00
20	0.00	82	741	9.7	263	170	102	419	76	51	27	0.00
21	0.00	85	410	14	254	150	99	760	46	28	11	0.00
22	0.00	83	262	18	1,970	115	86	675	17	34	0.18	521
23	0.00	73	190	16	742	95	71	412	0.77	75	0.00	385
24	0.00	64	1,160	11	399	78	63	256	0.00	50	0.00	171
25	0.00	54	703	19	253	64	78	182	0.00	23	0.00	103
26	0.00	46	398	15	214	57	229	143	0.00	3.3	0.00	71
27	0.00	45	257	29	489	53	186	106	0.00	0.00	0.00	60
28	0.00	37	191	20	489	45	142	88	0.00	0.00	0.00	64
29	88	31	153	32	---	46	105	75	0.00	0.00	0.00	44
30	103	29	118	108	---	59	81	52	0.00	0.00	0.00	24
31	78	---	98	100	---	52	---	27	---	0.00	0.00	---
TOTAL	344.42	4,407	9,036	1,326.7	16,725	3,282	5,176	19,304	353.40	4,110.30	2,049.18	1,529.08
MEAN	11.1	147	291	42.8	597	106	173	623	11.8	133	66.1	51.0
MAX	103	734	1,160	108	5,180	306	682	6,010	105	726	338	521
MIN	0.00	21	17	9.7	65	39	34	27	0.00	0.00	0.00	0.00
CFSM	0.17	2.31	4.58	0.67	9.39	1.66	2.71	9.79	0.19	2.08	1.04	0.80
IN.	0.20	2.58	5.28	0.78	9.78	1.92	3.03	11.29	0.21	2.40	1.20	0.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

	2000	2001	2002	2003	2000	2001	2002	2003	2000	2001	2002	2003
MEAN	5.56	86.0	196	201	321	203	110	260	7.45	45.6	23.2	19.9
MAX	11.1	147	291	327	597	318	173	623	11.8	133	66.1	51.0
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	0.000	12.7	110	42.8	85.4	106	64.6	5.31	0.11	0.000	0.000	0.000
(WY)	(2002)	(2002)	(2001)	(2003)	(2002)	(2003)	(2002)	(2001)	(2002)	(2002)	(2002)	(2001)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 2000 - 2003

ANNUAL TOTAL	43,117.25	67,643.08	
ANNUAL MEAN	118	185	141
HIGHEST ANNUAL MEAN			185
LOWEST ANNUAL MEAN			97.2
HIGHEST DAILY MEAN	2,330	Jan 24	6,010
LOWEST DAILY MEAN	0.00	Jun 3	a0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 3	a0.00
MAXIMUM PEAK FLOW			10,200
MAXIMUM PEAK STAGE			17.22
ANNUAL RUNOFF (CFSM)	1.86		2.91
ANNUAL RUNOFF (INCHES)	25.22		39.56
10 PERCENT EXCEEDS	299		398
50 PERCENT EXCEEDS	24		72
90 PERCENT EXCEEDS	0.00		0.00

a Many days most years.

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03568000 TENNESSEE RIVER AT CHATTANOOGA, TN

LOCATION.--Lat 35°05'12", long 85°16'43", Hamilton County, Hydrologic Unit 06020001, 0.5 mi downstream from South Chickamauga Creek, 3.0 mi downstream from Chickamauga Dam, 3.5 mi upstream from Walnut Street Bridge in Chattanooga, and at mile 467.6.

DRAINAGE AREA.--21,400 mi², approximately.

PERIOD OF RECORD.--April 1874 to current year. Monthly discharges only for some periods, published in WSP 1306. July 1930 to December 1935, published as "at Hales Bar, near Chattanooga." Gage-height records collected in this vicinity since 1874 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 353: 1874-1912. WSP 783: 1917. WSP 823: 1875(M). WSP 973: 1942. WSP 1306: 1916(M). WSP 1386: 1932-34 (station at Hales Bar near Chattanooga).

GAGE.--Water-stage recorder. Datum of gage is 621.12 ft above NGVD of 1929. Prior to Feb. 1, 1939, nonrecording or recording gages at several sites from 7.0 mi upstream from Chattanooga to Hales Bar Dam 33 mi downstream at or within 0.2 ft of present datum, except nonrecording gage at Bridgeport, AL, 49.9 mi downstream at different datum Oct. 22, 1913, to Feb. 28, 1915, and Oct. 1, 1918, to Jan. 5, 1921. Auxiliary gages at several sites parts of periods since Feb. 28, 1915. Present auxiliary gage at site 2.2 mi downstream from base gage at same datum.

REMARKS.--Records fair. Flow regulated since 1936 by many upstream reservoirs (see p. 300 and Water Resources Data for adjoining states).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 410,000 ft³/s, Mar. 1, 1875, gage height, 53.8 ft, present datum, at Walnut Street, from rating curve extended above 250,000 ft³/s; minimum daily, 1,200 ft³/s, Nov. 1, 1953; minimum gage height, 0.0 ft, Sept. 11-14, 1881, Sept. 19, 1883.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 57.9 ft, Mar. 11, 1867, present datum at Walnut Street, discharge about 459,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 241,000 ft³/s, May 8; maximum gage height, 38.28 ft, May 8; minimum daily discharge, 11,700 ft³/s, Apr. 6; minimum gage height, 11.32 ft, Apr. 3.

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	33,500	21,900	37,500	56,400	23,100	121,000	23,600	31,300	30,200	56,800	43,700	35,000
2	27,900	16,800	41,800	50,600	21,300	83,700	21,200	36,900	39,800	70,600	47,900	39,700
3	24,600	17,300	44,100	41,300	34,000	82,200	13,600	31,700	47,600	67,000	45,900	39,000
4	22,200	25,200	44,700	41,200	32,700	81,400	18,800	28,000	47,300	60,500	49,100	41,200
5	29,300	24,700	53,700	39,300	31,400	78,600	12,600	33,100	42,700	59,100	55,200	43,900
6	23,700	22,400	71,100	42,600	48,000	76,100	11,700	135,000	42,600	59,000	54,800	40,100
7	27,800	42,300	76,900	43,800	49,800	76,900	21,300	216,000	48,200	58,600	51,000	40,700
8	19,400	41,800	74,700	48,500	47,400	75,800	17,200	226,000	28,000	58,700	45,600	42,800
9	28,000	39,800	48,600	37,000	41,000	75,100	28,300	208,000	31,100	58,500	45,600	41,100
10	27,000	41,000	44,900	42,500	44,500	74,200	37,000	176,000	47,500	54,300	42,900	40,400
11	28,800	41,100	47,200	39,500	48,900	74,800	62,400	142,000	42,100	47,200	43,400	37,800
12	22,600	55,700	47,000	33,800	46,000	58,700	81,100	121,000	47,600	46,600	39,700	39,900
13	27,700	72,400	59,200	37,800	47,700	47,700	69,400	110,000	47,900	47,800	43,500	20,400
14	30,600	70,200	83,300	45,200	62,300	48,000	46,900	93,300	40,400	53,100	44,300	32,200
15	29,800	64,800	80,700	46,500	106,000	47,800	46,400	79,900	38,000	59,700	42,300	32,000
16	29,300	55,500	80,400	41,500	144,000	47,900	41,500	73,200	39,800	59,200	44,800	38,400
17	21,600	55,300	78,500	41,400	145,000	39,200	40,800	73,100	35,400	54,100	37,600	35,300
18	21,900	53,900	75,600	44,800	132,000	39,700	43,200	75,100	46,100	44,600	40,000	39,000
19	23,400	53,800	67,200	37,500	127,000	37,300	44,900	72,500	67,300	43,600	41,700	31,600
20	18,400	53,500	71,300	39,100	123,000	29,200	41,700	59,700	66,800	32,800	38,900	24,600
21	23,300	52,500	71,800	38,000	105,000	30,700	38,700	57,800	65,800	44,100	43,600	23,200
22	23,200	48,600	70,600	36,400	103,000	17,300	40,400	62,900	60,000	39,900	40,600	34,100
23	29,400	49,600	67,700	43,400	124,000	19,100	43,000	67,700	56,500	39,700	40,400	43,000
24	21,700	48,400	61,800	48,600	122,000	23,100	44,100	63,800	56,200	42,500	44,000	50,600
25	22,800	47,500	67,900	45,100	116,000	26,200	43,600	60,500	52,200	44,200	42,400	44,500
26	29,500	45,900	71,200	28,700	107,000	26,300	24,900	59,700	47,000	27,000	41,700	39,800
27	33,000	42,800	80,900	34,400	114,000	25,000	33,000	54,000	43,600	32,500	43,500	41,700
28	22,700	43,600	85,600	30,700	130,000	26,800	33,900	44,800	30,900	41,500	42,700	42,600
29	29,200	43,500	83,900	25,500	---	26,200	35,300	37,600	25,600	43,100	39,500	40,300
30	24,200	37,900	82,600	36,600	---	25,400	31,600	33,600	45,000	40,400	37,700	30,900
31	29,400	---	73,500	33,900	---	23,200	---	33,600	---	38,200	37,100	---
TOTAL	805,900	1,329,700	2,045,900	1,251,600	2,276,100	1,564,600	1,092,100	2,597,800	1,359,200	1,524,900	1,351,100	1,125,800
MEAN	26,000	44,320	66,000	40,370	81,290	50,470	36,400	83,800	45,310	49,190	43,580	37,530
MAX	33,500	72,400	85,600	56,400	145,000	121,000	81,100	226,000	67,300	70,600	55,200	50,600
MIN	18,400	16,800	37,500	25,500	21,300	17,300	11,700	28,000	25,600	27,000	37,100	20,400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2003, BY WATER YEAR (WY)

MEAN	29,110	34,070	43,690	48,390	50,170	46,460	28,630	29,280	29,600	29,770	31,560	28,640
MAX	63,270	68,330	94,270	127,900	132,800	98,850	107,800	87,890	65,280	49,670	43,580	42,140
(WY)	(1990)	(1958)	(1973)	(1974)	(1957)	(1963)	(1994)	(1984)	(1989)	(1989)	(2003)	(1967)
MIN	16,690	16,340	13,660	17,370	20,520	14,380	7,503	7,805	11,310	11,230	12,740	14,090
(WY)	(1984)	(1988)	(1988)	(1986)	(2000)	(1988)	(1986)	(1988)	(1988)	(1988)	(1988)	(1968)

03568000 TENNESSEE RIVER AT CHATTANOOGA, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		*WATER YEARS 1954 - 2003	
ANNUAL TOTAL	11,295,870		18,324,700			
ANNUAL MEAN	30,950		50,200		35,730	
HIGHEST ANNUAL MEAN					53,260	1973
LOWEST ANNUAL MEAN					15,070	1988
HIGHEST DAILY MEAN	163,000	Jan 25	226,000	May 8	251,000	Mar 18, 1973
LOWEST DAILY MEAN	4,140	Feb 17	11,700	Apr 6	1,200	Nov 1, 1953
ANNUAL SEVEN-DAY MINIMUM	11,300	Mar 10	16,600	Apr 2	6,790	May 29, 1986
MAXIMUM PEAK FLOW			241,000	May 8	267,000	Mar 18, 1973
MAXIMUM PEAK STAGE			38.28	May 8	38.98	Mar 18, 1973
10 PERCENT EXCEEDS	65,800		79,100		58,400	
50 PERCENT EXCEEDS	22,900		43,200		31,300	
90 PERCENT EXCEEDS	11,500		24,700		15,700	

* Regulated period only.

