

03430147 STONERS CREEK NEAR HERMITAGE, TN

LOCATION.--Lat 36°11'40", long 86°36'28", Davidson County, Hydrologic Unit 05130203, on downstream end of pier at center of culvert under Andrew Jackson Parkway, 0.8 mi southwest of Hermitage.

DRAINAGE AREA.--20.6 mi².

PERIOD OF RECORD.--January 1992 to current year.

GAGE.--Data collection platform. Datum of gage is 411.70 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 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 10	2000	950	6.64	May 7	0545	1,890	9.01
Feb 14	1545	1,090	7.06	May 7	1230	1,880	8.99
Feb 15	1400	1,080	7.04	May 11	0630	927	6.57
Feb 22	0445	1,130	7.15	Sep 22	0800	*4,770	*13.34
May 5	2345	2,420	10.04				

Minimum daily discharge, 2.1 ft³/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	17	4.9	2.7	40	18	44	26	13	5.3	47	40	14
2	23	4.5	2.5	31	15	38	21	24	5.4	26	48	12
3	12	4.8	2.4	32	20	33	18	14	13	16	164	38
4	21	5.4	81	26	66	29	16	9.6	6.9	9.9	50	80
5	19	63	162	22	34	25	47	469	5.4	7.3	32	24
6	12	50	51	17	29	24	177	723	19	6.9	24	14
7	9.3	29	32	14	31	21	246	1,070	251	9.3	18	9.8
8	7.3	21	22	13	24	19	99	364	46	6.1	13	7.7
9	5.8	17	16	11	22	17	65	268	28	12	9.5	6.2
10	322	21	59	9.4	26	15	62	156	45	59	8.0	5.2
11	204	34	212	8.1	28	14	50	298	81	30	7.3	4.7
12	77	21	66	7.1	27	13	39	81	62	14	6.7	4.2
13	46	17	106	6.7	23	13	32	52	36	52	7.2	3.7
14	31	14	71	6.3	544	12	26	38	26	30	6.5	12
15	23	70	45	5.6	693	11	22	30	21	15	5.6	4.3
16	18	59	33	5.8	544	11	19	26	18	11	5.2	3.5
17	14	32	35	6.0	163	11	95	69	17	7.9	4.9	3.0
18	11	20	28	6.0	93	13	37	42	23	6.6	4.7	2.7
19	9.3	15	160	5.7	83	115	27	30	23	6.0	4.6	2.3
20	11	12	129	6.0	109	47	22	25	13	5.6	4.6	2.1
21	9.3	9.4	58	18	94	34	41	29	9.9	5.5	4.4	3.8
22	8.0	7.5	40	13	466	26	23	23	7.8	6.9	7.5	2,140
23	6.7	6.0	28	11	224	21	18	18	7.0	5.8	6.2	178
24	6.6	5.0	103	10	147	18	17	15	6.6	5.3	4.5	71
25	5.5	4.4	61	8.4	95	16	17	14	6.1	4.9	4.3	42
26	5.5	4.4	40	7.5	75	29	17	13	5.8	4.7	4.3	31
27	5.2	4.0	30	6.7	65	20	13	11	8.2	4.6	4.2	23
28	4.8	3.4	24	6.5	52	17	11	8.7	6.5	4.6	4.1	17
29	6.9	3.2	19	39	---	87	9.8	7.6	5.9	10	4.0	13
30	7.0	3.0	15	31	---	43	8.7	6.6	137	8.7	53	10
31	5.7	---	16	23	---	32	---	5.9	---	147	41	---
TOTAL	963.9	564.9	1,749.6	452.8	3,810	868	1,321.5	3,953.4	945.8	585.6	601.3	2,782.2
MEAN	31.1	18.8	56.4	14.6	136	28.0	44.0	128	31.5	18.9	19.4	92.7
MAX	322	70	212	40	693	115	246	1,070	251	147	164	2,140
MIN	4.8	3.0	2.4	5.6	15	11	8.7	5.9	5.3	4.6	4.0	2.1
CFSM	1.51	0.91	2.74	0.71	6.61	1.36	2.14	6.19	1.53	0.92	0.94	4.50
IN.	1.74	1.02	3.16	0.82	6.88	1.57	2.39	7.14	1.71	1.06	1.09	5.02

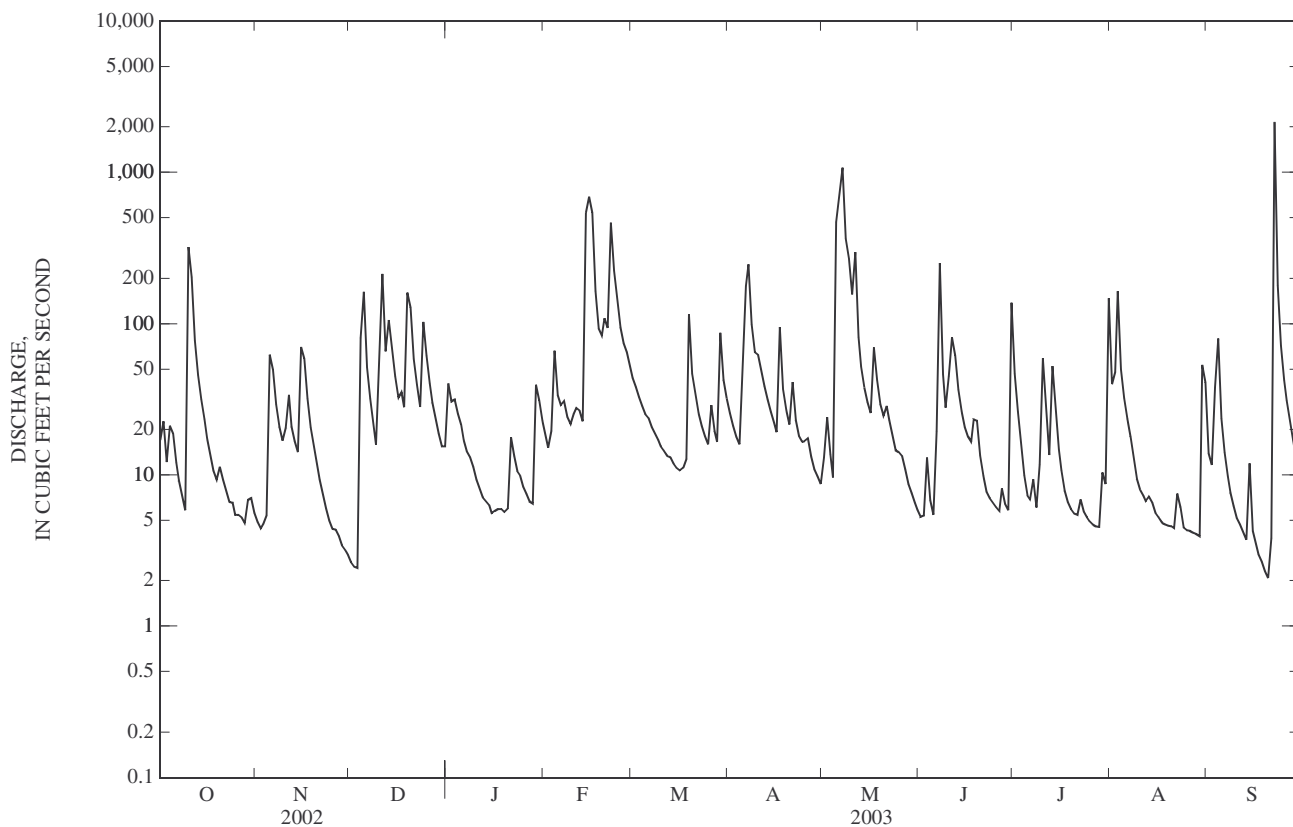
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)

MEAN	10.5	22.1	38.7	49.2	56.6	67.5	37.7	37.4	25.9	13.0	5.45	13.0
MAX	43.3	53.1	75.6	108	136	149	112	128	101	62.0	19.4	92.7
(WY)	(1996)	(1996)	(1997)	(1999)	(2003)	(1997)	(1994)	(2003)	(1998)	(1992)	(2003)	(2003)
MIN	0.42	1.12	11.4	14.6	27.5	28.0	10.7	5.24	3.24	1.37	0.79	0.28
(WY)	(2001)	(1999)	(2000)	(2003)	(1995)	(2003)	(1992)	(1992)	(2000)	(2000)	(1993)	(1998)

03430147 STONERS CREEK NEAR HERMITAGE, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1992 - 2003	
ANNUAL TOTAL	13,421.63		18,599.0		31.8	
ANNUAL MEAN	36.8		51.0		15.3	
HIGHEST ANNUAL MEAN					51.0	2003
LOWEST ANNUAL MEAN					15.3	2000
HIGHEST DAILY MEAN	985	Mar 17	2,140	Sep 22	2,140	Sep 22, 2003
LOWEST DAILY MEAN	0.89	Aug 12	2.1	Sep 20	0.04	Sep 5, 1999
ANNUAL SEVEN-DAY MINIMUM	1.0	Aug 7	3.0	Nov 27	0.05	Sep 2, 1999
MAXIMUM PEAK FLOW			4,770	Sep 22	a4,770	Sep 22, 2003
MAXIMUM PEAK STAGE			13.34	Sep 22	13.34	Sep 22, 2003
INSTANTANEOUS LOW FLOW					0.09	Oct 14, 2000
ANNUAL RUNOFF (CFSM)	1.79		2.47		1.54	
ANNUAL RUNOFF (INCHES)	24.24		33.59		20.96	
10 PERCENT EXCEEDS	71		93		63	
50 PERCENT EXCEEDS	12		17		11	
90 PERCENT EXCEEDS	1.9		4.9		0.94	

a From rating curve extended above 500 ft³/s on basis of contracted-opening measurement of peak flow.



03430550 MILL CREEK NEAR NOLENSVILLE, TN

LOCATION.--Lat 36°00'33", long 86°42'06", Davidson County, Hydrologic Unit 05130202, near left bank on downstream side of bridge on US Highway 31A, 800 ft upstream from Holt Creek, 0.6 mi upstream from Owl Creek, 4.6 mi northwest of Nolensville, and at mile 19.6.

DRAINAGE AREA.--40.5 mi².

PERIOD OF RECORD.--March 1992 to current year.

REVISED RECORD.--WRD TN-94-1: 1992 (M).

GAGE.--Data collection platform. Datum of gage is 527.74 ft above NGVD of 1929.

REMARKS.--Records fair 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 2,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 14	1515	3,340	11.49	May 7	0400	2,860	10.87
Feb 15	1215	6,310	14.65	May 7	1230	6,380	14.72
Feb 22	0400	4,590	12.95	Jun 7	0400	*10,300	*17.84
May 5	0515	9,060	16.97	Sep 22	0900	8,550	16.54

Minimum daily discharge, 0.60 ft³/s, Sept. 13.

REVISIONS.--The peak discharges and annual maximum (*) reported for water years 2001 and 2002 have been revised as shown in the following table. They supersede figures published in the reports for 2001 and 2002.

Water Year 2001

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 9	0300	3,440	11.61	Feb 16	1100	2,700	10.64
Dec 16	1615	*5,740	*14.12	Feb 16	1730	5,070	13.46
Feb 15	1700	2,500	10.35	Feb 25	0330	3,480	11.67

Water Year 2002

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 29	1215	3,270	11.40	Mar 17	0645	4,060	12.36
Jan 24	0830	*4,660	*13.02	May 13	0930	2,430	10.25

03430550 MILL CREEK NEAR NOLENSVILLE, TN—Continued

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	16	20	10	66	59	101	42	14	17	28	3.0	1.7
2	31	17	10	64	51	87	36	15	15	20	2.0	3.7
3	18	17	9.5	71	63	74	31	12	28	13	3.6	16
4	39	22	187	65	187	65	28	11	20	9.0	4.2	5.5
5	46	149	325	59	103	59	58	2,210	16	7.1	6.8	3.1
6	26	125	115	52	89	60	93	615	93	6.0	16	1.8
7	25	75	77	46	91	52	213	2,210	2,630	5.5	7.6	1.1
8	20	55	59	43	79	46	112	311	180	4.3	4.5	0.98
9	16	43	47	39	71	40	81	173	109	4.3	11	1.5
10	e530	47	144	35	76	36	78	116	81	4.3	15	1.2
11	e420	115	233	31	80	34	72	314	81	4.7	5.4	0.85
12	e160	65	116	28	74	31	59	122	71	4.5	3.8	0.62
13	e76	49	187	27	66	27	50	85	56	4.2	7.8	0.60
14	51	39	149	26	1,130	25	42	69	56	3.8	6.6	2.5
15	39	106	97	23	2,390	23	36	59	53	3.2	4.3	1.5
16	30	132	74	25	810	22	32	48	47	2.6	3.3	1.8
17	23	81	69	23	264	21	45	195	42	1.9	2.5	1.7
18	18	60	61	22	171	23	33	143	35	1.4	2.1	1.3
19	16	50	240	21	142	158	27	94	32	1.3	2.0	1.2
20	23	40	186	22	188	81	24	91	41	1.1	1.6	1.3
21	20	33	109	27	181	59	66	111	25	0.93	1.6	1.8
22	16	28	83	25	1,050	48	36	91	20	1.3	1.1	2,610
23	13	24	68	23	322	39	28	72	17	2.2	3.5	151
24	12	21	257	21	195	33	26	58	14	1.8	3.7	81
25	11	19	150	30	141	29	31	54	11	1.2	2.7	53
26	11	18	104	20	127	33	27	49	9.4	0.90	2.4	36
27	9.9	16	83	20	142	28	22	38	14	0.74	2.2	31
28	e8	14	70	19	121	26	19	31	9.8	1.4	1.7	21
29	e18	13	62	72	---	113	17	27	7.8	12	1.6	16
30	e45	12	55	78	---	67	15	23	13	6.2	1.7	11
31	e32	---	50	65	---	52	---	20	---	4.6	1.4	---
TOTAL	1,818.9	1,505	3,486.5	1,188	8,463	1,592	1,479	7,481	3,844.0	163.47	136.7	3,061.75
MEAN	58.7	50.2	112	38.3	302	51.4	49.3	241	128	5.27	4.41	102
MAX	530	149	325	78	2,390	158	213	2,210	2,630	28	16	2,610
MIN	8.0	12	9.5	19	51	21	15	11	7.8	0.74	1.1	0.60
CFSM	1.45	1.24	2.77	0.95	7.46	1.27	1.22	5.95	3.16	0.13	0.11	2.52
IN.	1.67	1.38	3.20	1.09	7.77	1.46	1.36	6.87	3.53	0.15	0.13	2.81

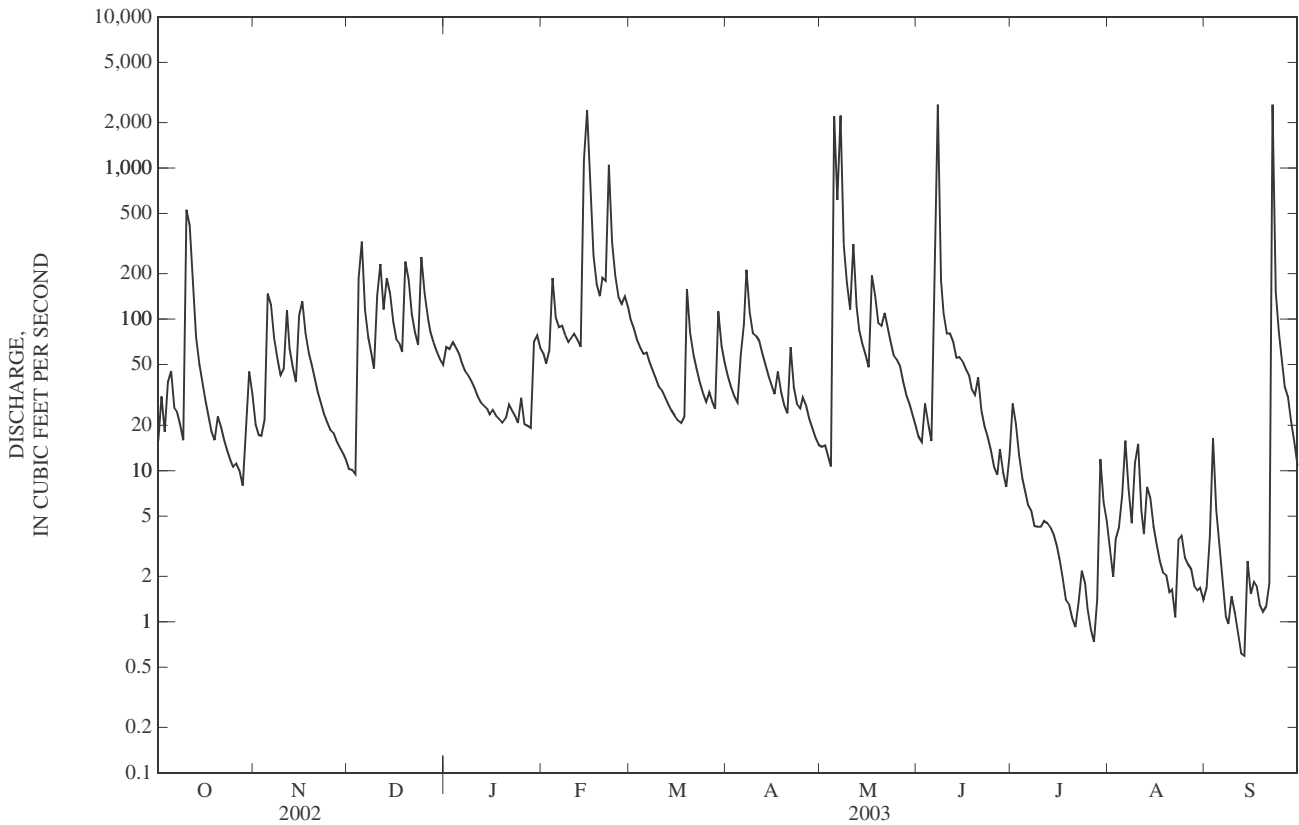
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)

MEAN	24.9	43.7	82.4	115	135	168	73.6	83.0	52.3	16.8	7.94	14.8
MAX	146	122	159	225	302	372	209	241	210	58.8	35.0	102
(WY)	(1996)	(1996)	(1997)	(1999)	(2003)	(1997)	(1994)	(2003)	(1998)	(1992)	(1995)	(2003)
MIN	0.39	1.67	28.4	38.3	40.3	51.4	20.3	8.40	4.00	2.35	1.03	0.85
(WY)	(2001)	(1999)	(2000)	(2003)	(2002)	(2003)	(1992)	(1992)	(2002)	(2000)	(2000)	(2000)

03430550 MILL CREEK NEAR NOLENSVILLE, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1992 - 2003	
ANNUAL TOTAL	22,878.90		34,219.32		67.4	
ANNUAL MEAN	62.7		93.8		104	
HIGHEST ANNUAL MEAN					1994	
LOWEST ANNUAL MEAN					1992	
HIGHEST DAILY MEAN	1,950	Jan 24	2,630	Jun 7	4,070	Mar 27, 1994
LOWEST DAILY MEAN	0.11	Sep 9	0.60	Sep 13	0.08	Sep 13, 1993
ANNUAL SEVEN-DAY MINIMUM	0.22	Sep 7	0.98	Sep 7	0.10	Sep 9, 1993
MAXIMUM PEAK FLOW			10,300	Jun 7	13,000	Oct 5, 1995
MAXIMUM PEAK STAGE			17.84	Jun 7	17.88	May 25, 2000
ANNUAL RUNOFF (CF5M)	1.55		2.31		1.66	
ANNUAL RUNOFF (INCHES)	21.00		31.41		22.58	
10 PERCENT EXCEEDS	122		149		126	
50 PERCENT EXCEEDS	20		31		19	
90 PERCENT EXCEEDS	1.3		2.1		1.3	

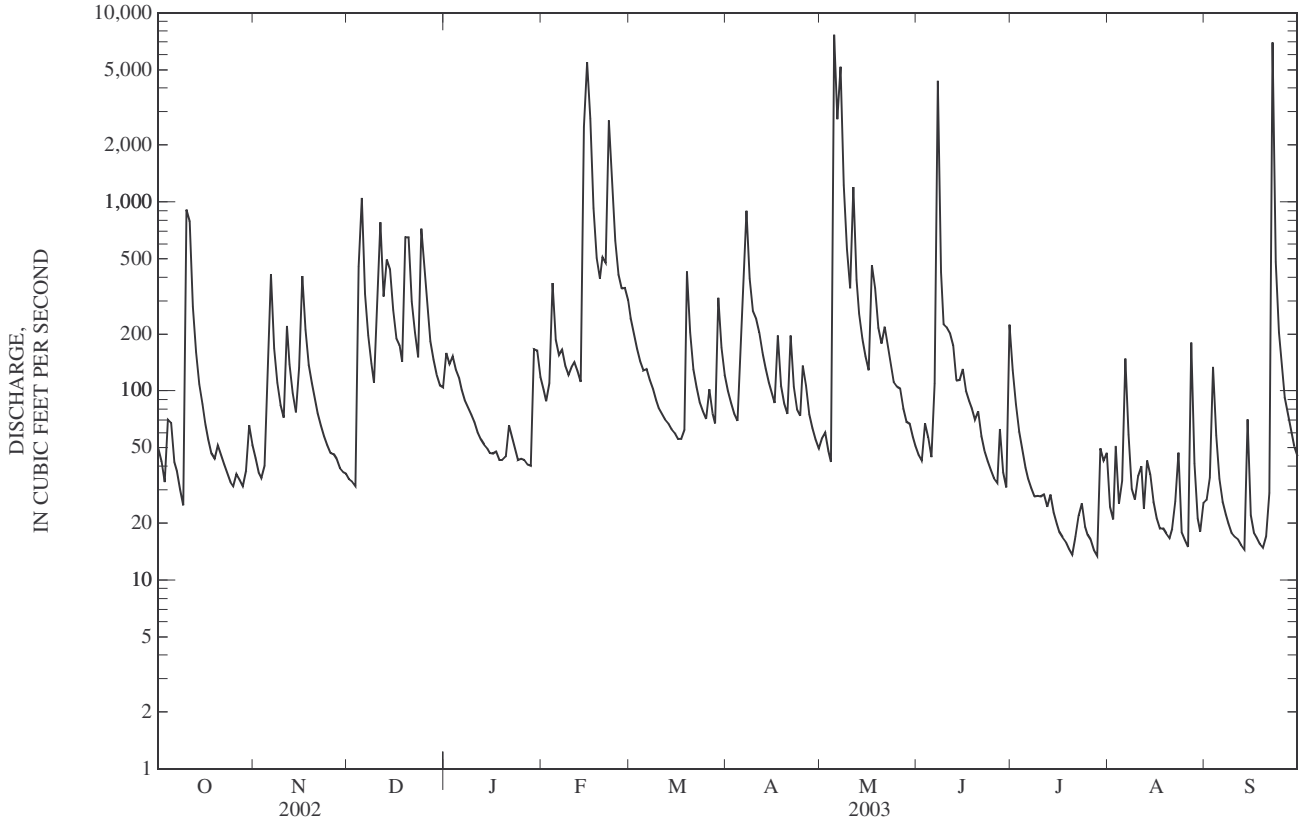
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03431060 MILL CREEK AT THOMPSON LANE NEAR WOODBINE, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1997 - 2003	
ANNUAL TOTAL	57,173.7		89,770		157	
ANNUAL MEAN	157		246		246	
HIGHEST ANNUAL MEAN					106	2003
LOWEST ANNUAL MEAN					7,650	May 5, 2003
HIGHEST DAILY MEAN	3,880	Mar 17	7,650	May 5	7,650	May 5, 2003
LOWEST DAILY MEAN	5.9	Sep 1	13	Jul 28	0.75	Sep 21, 2000
ANNUAL SEVEN-DAY MINIMUM	6.4	Aug 29	17	Jul 15	0.95	Sep 16, 2000
MAXIMUM PEAK FLOW			14,400	May 5	26,200	May 4, 1979
MAXIMUM PEAK STAGE			16.15	May 5	20.63	May 4, 1979
ANNUAL RUNOFF (CFSM)	1.68		2.63		1.68	
ANNUAL RUNOFF (INCHES)	22.77		35.75		22.81	
10 PERCENT EXCEEDS	309		402		279	
50 PERCENT EXCEEDS	53		76		49	
90 PERCENT EXCEEDS	13		22		4.8	



03431091 CUMBERLAND RIVER AT OMOHUNDRO WATER PLANT AT NASHVILLE, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 36°09'46", long 86°43'31", Davidson County, Hydrologic Unit 05130202, on right bank 0.8 mi downstream from Mill Creek, upstream of Omohundro Filtration Plant, and at mile 193.7.

DRAINAGE AREA.--12,819 mi².

PERIOD OF RECORD.--October 1996 to September 1999, October 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1996 to September 1999, October 2000 to current year.

pH: October 1996 to September 1999, October 2000 to current year.

WATER TEMPERATURE: October 1996 to September 1999, October 2000 to current year.

DISSOLVED OXYGEN: October 1996 to September 1999, October 2000 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1996. Records for water temperature, pH, specific conductance are fair, dissolved oxygen record is poor.

REMARKS.--Flow regulated by Old Hickory Dam and other reservoirs above station.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 282 microsiemens, Jan. 8, 2002; minimum, 166 microsiemens, June 4, 1998.

pH: Maximum, 9.1 units, Feb. 11, 12, 13, 2001; minimum, 6.9 units, July 30, 1997.

WATER TEMPERATURE: Maximum, 27.3°C, July 31, 1997; minimum, 3.0°C, Jan. 5, 2001.

DISSOLVED OXYGEN: Maximum, 14.9 mg/L, Jan. 18, 2002; minimum, 3.7 mg/L, Nov. 4, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 277 microsiemens, Feb. 11; minimum, 160 microsiemens, May 23.

pH: Maximum, 8.9 units, April 3, 4; minimum, 7.1 units, several days.

WATER TEMPERATURE: Maximum, 26.4°C, Aug. 20, 25; minimum, 3.8°C, Jan. 25, 27.

DISSOLVED OXYGEN:

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	258	224	242	249	215	233	250	233	239	256	239	251
2	265	226	249	245	226	232	238	226	232	255	230	246
3	259	235	252	250	221	235	239	226	230	259	231	251
4	250	201	231	244	223	235	237	224	228	255	229	246
5	233	200	218	240	212	228	244	215	229	250	226	237
6	244	200	222	244	203	233	218	203	212	244	221	228
7	216	189	201	228	204	218	213	200	208	237	219	226
8	204	186	196	235	204	217	227	204	217	245	221	233
9	251	187	203	224	194	213	235	226	229	243	220	227
10	237	191	212	234	209	222	239	212	225	240	219	224
11	233	200	211	239	214	232	242	219	233	237	218	222
12	238	212	230	234	209	223	225	220	223	222	219	220
13	238	202	219	226	213	218	223	220	222	224	220	221
14	242	208	229	234	212	220	227	221	224	227	217	221
15	251	214	227	232	217	222	223	220	221	228	216	219
16	245	214	230	245	223	233	223	212	219	227	215	217
17	252	214	235	245	219	239	240	216	236	227	215	217
18	254	213	228	249	239	243	243	224	237	217	213	214
19	237	214	227	252	244	249	249	240	245	215	212	213
20	235	216	224	249	242	246	246	239	241	227	211	215
21	247	214	229	250	245	247	246	238	242	219	211	213
22	249	206	225	253	245	249	243	238	240	228	210	216
23	247	211	227	253	246	250	244	240	242	231	212	218
24	245	209	227	254	246	248	244	238	242	230	212	220
25	244	211	226	252	237	246	245	238	242	213	211	212
26	258	217	228	249	242	246	244	239	242	215	210	212
27	239	214	225	259	248	256	246	243	244	227	211	214
28	241	217	225	263	244	253	252	245	248	229	214	220
29	242	203	224	257	244	251	252	245	248	230	215	220
30	244	213	227	256	235	244	253	244	247	234	219	225
31	247	206	229	---	---	---	256	244	250	229	214	219
MONTH	265	186	225	263	194	236	256	200	233	259	210	224

03431091 CUMBERLAND RIVER AT OMOHUNDRO WATER PLANT AT NASHVILLE, TN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	240	218	224	208	204	207	202	197	200	187	176	178
2	243	218	223	209	207	208	229	198	204	188	177	180
3	223	220	221	208	205	207	202	192	200	184	176	178
4	248	222	234	205	202	204	192	188	190	179	177	177
5	241	225	234	204	202	203	189	186	188	186	175	179
6	253	233	243	203	202	203	191	189	190	187	178	182
7	255	233	244	205	202	203	206	190	197	194	186	189
8	264	233	247	204	197	202	195	192	193	---	---	---
9	258	234	245	203	197	199	199	195	196	---	---	---
10	274	239	256	207	199	202	199	196	198	---	---	---
11	277	247	261	206	201	203	200	196	197	---	---	---
12	263	240	250	202	191	198	204	200	202	---	---	---
13	262	242	253	197	190	193	204	195	200	---	---	---
14	261	240	252	199	191	194	211	193	196	---	---	---
15	244	225	230	203	192	194	209	194	198	---	---	---
16	227	202	217	193	190	192	201	191	195	---	---	---
17	206	198	203	193	189	190	200	190	194	---	---	---
18	215	198	204	198	193	195	200	191	195	---	---	---
19	215	211	213	206	196	198	199	189	193	---	---	---
20	213	201	208	205	197	199	198	191	193	---	---	---
21	201	194	197	206	197	199	205	185	198	173	166	169
22	201	192	196	204	197	199	197	185	188	174	161	165
23	217	201	209	209	197	197	198	188	192	170	160	164
24	216	209	211	203	194	197	198	185	190	170	161	163
25	212	209	211	205	195	198	187	179	183	170	161	163
26	212	209	211	205	196	199	182	177	179	176	164	168
27	211	207	209	198	196	197	196	176	180	178	166	171
28	208	204	206	209	197	200	185	176	178	178	169	171
29	---	---	---	208	198	201	193	177	181	178	168	171
30	---	---	---	201	199	200	188	176	179	180	169	171
31	---	---	---	203	200	201	---	---	---	182	172	174
MONTH	277	192	225	209	189	199	229	176	192	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	175	171	172	186	176	182	191	181	189	220	176	193
2	178	170	174	183	176	180	193	189	191	199	173	190
3	190	171	177	186	180	182	192	189	190	198	191	195
4	188	174	181	186	175	181	208	189	192	206	194	197
5	195	180	185	196	180	187	211	194	200	195	192	193
6	188	175	180	189	183	187	211	195	200	194	191	192
7	185	173	178	190	185	188	210	199	202	196	191	193
8	179	174	176	210	187	194	214	199	204	202	192	197
9	197	178	183	203	187	192	222	202	207	239	197	207
10	203	190	197	203	189	195	228	211	217	203	187	195
11	198	190	194	200	187	193	226	206	213	196	187	191
12	196	191	193	201	185	188	218	202	208	196	186	190
13	201	191	195	189	185	188	220	202	207	195	187	191
14	205	193	199	189	187	188	222	204	211	189	185	187
15	213	205	210	206	188	193	221	201	208	190	187	189
16	213	209	211	204	189	192	219	194	202	188	186	187
17	209	200	204	202	186	192	202	193	197	188	186	187
18	201	189	193	202	185	191	224	194	206	189	187	188
19	202	190	195	199	185	189	240	183	212	190	188	189
20	201	190	194	189	188	188	216	199	207	189	187	188
21	207	192	196	190	188	189	232	194	208	188	185	187
22	208	200	202	190	189	190	218	190	208	232	171	193
23	208	195	200	191	189	190	212	183	206	226	206	215
24	210	192	198	191	189	190	210	190	205	228	209	219
25	203	189	193	190	188	189	220	191	207	228	195	211
26	200	188	192	190	187	189	230	181	206	214	190	202
27	198	186	191	191	184	187	218	197	202	209	187	197
28	190	182	185	188	184	186	230	184	199	209	187	200
29	182	179	180	190	184	187	218	186	198	209	189	200
30	184	179	182	200	187	194	205	187	198	217	191	205
31	---	---	---	190	184	187	200	181	195	---	---	---
MONTH	213	170	190	210	175	189	240	181	203	239	171	196

03431091 CUMBERLAND RIVER AT OMOHUNDRO WATER PLANT AT NASHVILLE, TN—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.8	7.2	7.8	7.6	8.2	8.1	8.1	7.9	8.3	8.1	7.7	7.7
2	7.6	7.1	7.8	7.7	8.2	8.0	8.0	7.9	8.3	8.0	7.8	7.7
3	7.5	7.1	7.9	7.7	8.2	8.1	8.0	7.9	8.2	8.0	7.8	7.7
4	7.6	7.1	8.0	7.7	8.2	8.0	8.0	8.0	8.2	8.1	7.8	7.7
5	7.9	7.4	7.9	7.7	8.0	8.0	8.0	7.9	8.4	8.1	7.8	7.6
6	7.9	7.3	7.8	7.7	8.0	8.0	8.0	7.8	8.3	8.1	7.7	7.6
7	7.7	7.4	7.8	7.7	8.0	7.9	8.1	8.0	8.3	8.1	7.7	7.6
8	7.8	7.6	7.9	7.8	8.0	7.9	8.2	8.1	8.4	8.1	7.7	7.6
9	8.0	7.5	8.0	7.7	8.0	7.9	8.1	8.0	8.4	8.1	7.7	7.6
10	7.8	7.4	7.9	7.8	8.0	7.8	8.1	8.0	8.3	8.1	7.7	7.7
11	7.7	7.5	8.0	7.8	7.9	7.8	8.2	8.0	8.3	8.0	7.7	7.7
12	7.5	7.4	7.9	7.8	7.9	7.8	8.2	8.1	8.2	8.0	7.7	7.7
13	7.7	7.4	8.1	7.8	7.9	7.8	8.2	8.1	8.4	8.0	7.8	7.7
14	7.7	7.3	8.1	7.9	7.9	7.8	8.1	8.0	8.3	8.1	7.8	7.7
15	7.7	7.4	8.1	7.9	7.9	7.8	8.2	8.1	8.1	8.0	7.8	7.8
16	7.7	7.4	7.9	7.8	7.8	7.8	8.2	8.1	8.0	7.7	7.9	7.8
17	7.7	7.4	8.0	7.9	7.9	7.8	8.2	8.1	7.7	7.7	7.9	7.8
18	7.8	7.5	8.0	7.9	8.0	7.8	8.2	8.1	7.9	7.7	8.0	7.9
19	7.8	7.4	8.0	7.9	8.0	8.0	8.2	8.1	7.9	7.8	8.0	7.9
20	7.8	7.6	8.0	7.9	8.0	7.9	8.3	8.1	7.8	7.7	8.1	8.0
21	7.7	7.5	8.0	7.9	8.0	8.0	8.2	8.1	7.8	7.7	8.0	7.9
22	7.7	7.5	8.0	7.9	8.0	8.0	8.3	8.1	7.7	7.7	8.1	7.9
23	7.8	7.5	8.0	7.9	8.0	8.0	8.3	8.1	7.8	7.7	8.1	7.9
24	7.8	7.5	8.1	8.0	8.0	8.0	8.3	8.2	7.8	7.7	8.1	8.0
25	7.7	7.5	8.1	8.0	8.0	7.9	8.3	8.2	7.8	7.8	8.2	7.9
26	7.7	7.6	8.0	7.9	8.0	7.9	8.3	8.1	7.8	7.8	8.1	7.9
27	7.9	7.6	8.0	7.9	8.0	8.0	8.3	8.1	7.8	7.7	8.3	7.9
28	7.7	7.5	8.1	8.0	8.0	8.0	8.3	8.2	7.7	7.7	8.5	8.1
29	7.9	7.5	8.2	8.0	8.0	8.0	8.2	8.1	---	---	8.4	8.1
30	7.9	7.6	8.2	8.0	8.1	8.0	8.2	8.0	---	---	8.5	8.2
31	7.9	7.6	---	---	8.1	8.0	8.3	8.0	---	---	8.6	8.2
MONTH	8.0	7.1	8.2	7.6	8.2	7.8	8.3	7.8	8.4	7.7	8.6	7.6
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.7	8.4	8.3	8.0	8.2	7.9	7.8	7.6	8.0	7.8	8.1	7.9
2	8.8	8.5	8.2	8.0	8.3	8.1	7.8	7.7	8.1	7.8	8.0	7.8
3	8.9	8.5	8.2	8.0	8.2	7.9	7.8	7.6	8.1	7.8	7.9	7.6
4	8.9	8.6	8.2	8.1	7.9	7.7	7.9	7.7	7.9	7.8	7.8	7.6
5	8.8	8.6	8.1	7.9	7.8	7.6	7.8	7.4	7.8	7.6	8.2	7.6
6	8.7	8.5	7.9	7.8	8.1	7.7	7.8	7.6	8.0	7.7	8.4	8.0
7	8.6	8.4	7.8	7.7	8.1	7.9	7.7	7.5	8.0	7.8	8.2	8.0
8	8.6	8.3	---	---	8.1	7.9	7.8	7.5	8.1	7.8	8.1	7.7
9	8.3	8.0	---	---	7.9	7.6	7.8	7.4	7.9	7.5	7.7	7.5
10	8.1	8.0	---	---	7.7	7.6	7.6	7.3	7.9	7.5	7.8	7.5
11	8.0	7.9	---	---	7.7	7.6	7.7	7.3	8.0	7.7	7.9	7.6
12	7.9	7.9	---	---	7.8	7.6	7.7	7.5	8.2	7.8	8.0	7.7
13	7.9	7.9	---	---	7.7	7.6	7.7	7.6	8.2	7.6	8.2	7.7
14	7.9	7.8	---	---	7.7	7.6	7.7	7.5	8.2	7.5	8.2	7.7
15	7.8	7.8	---	---	7.7	7.6	7.6	7.5	8.1	7.5	7.8	7.4
16	7.9	7.8	---	---	7.7	7.6	7.7	7.6	7.9	7.5	7.7	7.4
17	7.9	7.8	---	---	7.8	7.6	7.6	7.5	7.9	7.7	8.1	7.7
18	7.9	7.8	---	---	8.0	7.8	7.6	7.4	7.9	7.6	7.9	7.6
19	7.9	7.8	---	---	8.1	7.8	7.6	7.5	7.8	7.6	7.8	7.6
20	7.8	7.8	---	---	8.0	7.7	7.6	7.5	8.2	7.7	7.8	7.6
21	7.8	7.7	7.9	7.8	8.0	7.7	7.6	7.4	8.1	8.0	8.0	7.7
22	7.9	7.7	7.8	7.7	8.0	7.8	7.6	7.4	8.1	7.8	7.8	7.5
23	8.0	7.8	7.9	7.7	8.0	7.7	7.7	7.5	8.0	7.8	7.5	7.3
24	8.1	7.9	8.0	7.8	8.1	7.7	8.0	7.4	8.2	7.9	7.4	7.2
25	8.1	8.0	7.9	7.8	8.1	7.9	8.1	7.5	8.1	7.8	7.4	7.1
26	8.0	7.9	7.9	7.7	8.0	7.8	7.9	7.5	8.1	7.7	7.3	7.1
27	8.1	7.9	8.1	7.8	7.9	7.8	7.9	7.4	8.1	7.8	7.6	7.2
28	8.2	7.9	8.2	7.8	8.0	7.8	7.5	7.4	8.0	7.7	7.4	7.1
29	8.2	7.9	8.2	7.9	7.9	7.8	7.5	7.3	8.0	7.6	7.5	7.1
30	8.2	8.0	8.3	7.9	7.8	7.7	7.6	7.3	7.9	7.5	7.5	7.2
31	---	---	8.3	7.9	---	---	7.8	7.5	7.9	7.7	---	---
MONTH	8.9	7.7	---	---	8.3	7.6	8.1	7.3	8.2	7.5	8.4	7.1

03431091 CUMBERLAND RIVER AT OMOHUNDRO WATER PLANT AT NASHVILLE, TN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	23.0	21.1	22.2	17.7	16.2	17.0	10.0	9.4	9.7	9.0	8.5	8.8
2	22.9	21.5	22.2	16.9	15.6	16.2	9.4	9.2	9.3	9.1	8.7	8.9
3	23.1	21.7	22.3	16.7	15.4	16.2	9.2	8.8	9.0	8.7	8.2	8.5
4	23.1	21.8	22.4	16.9	15.4	15.9	8.9	8.7	8.8	8.3	7.9	8.1
5	23.8	22.2	23.0	16.3	14.8	15.5	8.8	8.3	8.6	8.5	8.0	8.2
6	23.0	21.4	22.4	15.8	14.5	15.2	8.6	8.2	8.4	8.3	7.8	8.0
7	23.1	21.6	22.3	15.1	14.1	14.6	8.9	8.5	8.6	7.9	7.6	7.7
8	22.7	21.3	21.9	14.8	13.8	14.3	8.8	8.4	8.5	7.9	7.6	7.7
9	22.7	21.2	22.0	15.2	13.9	14.5	8.4	8.0	8.2	8.3	7.9	8.1
10	22.3	21.0	21.6	16.6	14.5	15.4	8.2	7.9	8.0	8.2	7.6	7.9
11	22.0	20.9	21.5	16.6	15.2	15.8	7.9	7.6	7.8	7.7	7.2	7.5
12	22.1	21.1	21.6	15.6	14.5	15.2	7.8	7.6	7.7	7.2	6.9	7.1
13	22.6	20.8	21.6	15.1	14.3	14.6	7.9	7.7	7.8	7.1	6.7	6.9
14	21.5	20.1	20.7	15.0	13.9	14.5	8.0	7.8	7.9	7.0	6.7	6.8
15	21.4	19.9	20.7	14.6	13.8	14.2	8.1	7.6	7.8	6.8	6.4	6.6
16	21.0	19.3	20.0	14.2	13.2	13.7	8.2	7.8	8.0	6.6	6.3	6.4
17	20.5	18.7	19.5	13.2	12.5	13.0	8.6	8.1	8.3	6.4	5.8	6.2
18	20.2	18.3	19.1	12.8	12.0	12.5	8.9	8.5	8.6	5.8	5.4	5.5
19	19.8	18.5	19.1	13.5	12.8	13.0	9.1	8.8	8.9	5.6	5.2	5.3
20	19.7	18.1	19.0	13.3	12.6	13.0	9.2	9.0	9.1	5.7	5.2	5.5
21	19.3	18.0	18.6	13.5	12.9	13.2	9.2	8.8	9.0	5.9	5.5	5.7
22	19.6	17.7	18.4	13.2	12.2	12.8	9.2	8.9	9.0	5.6	5.3	5.5
23	19.2	17.5	18.3	12.5	11.8	12.1	9.0	8.7	8.9	5.3	4.4	4.9
24	19.2	17.5	18.3	12.5	11.8	12.1	9.2	8.9	9.0	4.4	4.0	4.3
25	18.9	17.5	18.1	12.1	11.7	11.9	8.9	8.5	8.7	4.4	3.8	4.1
26	19.1	17.6	18.2	11.8	11.3	11.6	8.5	8.1	8.4	4.4	4.0	4.2
27	19.4	17.6	18.3	11.5	10.7	11.2	8.3	7.9	8.1	4.3	3.8	4.1
28	19.0	17.4	18.1	10.9	10.3	10.7	8.0	7.8	7.9	4.4	3.9	4.2
29	19.2	17.5	18.2	10.5	10.0	10.3	8.2	7.8	8.0	4.6	4.4	4.5
30	18.4	17.3	18.0	10.4	9.9	10.1	8.5	8.0	8.3	4.6	4.4	4.5
31	17.7	16.6	17.2	---	---	---	8.6	8.4	8.5	4.7	4.3	4.5
MONTH	23.8	16.6	20.2	17.7	9.9	13.7	10.0	7.6	8.5	9.1	3.8	6.3
	FEBRUARY			MARCH			APRIL			MAY		
1	5.2	4.7	5.0	6.6	6.4	6.5	12.9	12.2	12.6	15.5	15.1	15.3
2	5.8	5.0	5.4	6.5	6.4	6.5	13.6	12.3	13.0	15.5	15.0	15.3
3	6.2	5.7	5.9	6.5	6.3	6.4	14.2	12.9	13.5	15.7	15.2	15.4
4	6.6	5.9	6.2	6.9	6.4	6.6	14.4	13.4	13.9	15.8	15.2	15.5
5	6.4	5.8	6.1	7.3	6.9	7.1	14.6	13.9	14.2	16.2	15.7	15.9
6	6.4	6.1	6.2	7.2	7.0	7.2	13.9	13.3	13.6	15.7	15.5	15.7
7	6.3	5.8	6.1	7.3	6.9	7.1	14.4	13.7	14.0	16.0	15.7	15.9
8	5.9	5.2	5.6	7.7	7.1	7.4	14.0	13.6	13.8	---	---	---
9	5.7	5.3	5.5	8.0	7.6	7.8	13.6	12.8	13.2	---	---	---
10	5.9	5.3	5.6	7.7	7.3	7.5	12.8	12.1	12.4	---	---	---
11	6.2	5.3	5.7	7.6	7.2	7.4	12.1	11.7	12.0	---	---	---
12	6.6	5.5	6.1	8.1	7.5	7.8	12.8	11.9	12.4	---	---	---
13	6.5	5.6	6.1	8.3	7.9	8.1	12.6	12.2	12.5	---	---	---
14	6.7	6.1	6.3	8.5	8.3	8.4	12.5	11.9	12.2	---	---	---
15	7.0	6.7	6.9	9.0	8.4	8.7	13.0	12.3	12.7	---	---	---
16	7.1	6.8	6.9	9.3	8.8	9.1	13.1	12.7	12.9	---	---	---
17	7.6	7.1	7.4	9.5	9.2	9.4	13.6	12.9	13.2	---	---	---
18	7.5	6.9	7.2	9.7	9.5	9.6	13.7	13.1	13.4	---	---	---
19	7.0	6.8	6.9	10.4	9.7	10.1	14.0	13.4	13.7	---	---	---
20	7.2	7.0	7.1	10.7	10.2	10.5	14.2	13.7	13.9	---	---	---
21	7.1	7.0	7.0	10.8	10.5	10.7	14.2	13.7	14.0	17.0	16.8	16.9
22	7.2	7.0	7.1	11.0	10.4	10.7	14.3	13.5	13.9	17.0	16.8	16.9
23	7.0	6.8	6.8	11.3	10.6	10.7	14.3	13.5	13.9	17.3	16.6	17.0
24	7.1	6.8	7.0	11.9	11.2	11.6	14.1	13.8	13.9	17.3	16.7	17.0
25	7.1	6.6	6.8	12.6	11.8	12.2	13.9	13.8	13.8	17.3	16.7	17.0
26	6.6	6.6	6.6	12.9	12.3	12.5	13.8	13.5	13.6	17.1	16.6	16.8
27	6.6	6.6	6.6	13.5	12.2	12.9	14.2	13.4	13.8	17.2	16.7	17.0
28	6.6	6.5	6.5	13.9	13.2	13.6	14.5	13.8	14.2	17.4	16.4	17.0
29	---	---	---	13.4	12.8	13.2	15.0	14.4	14.7	17.5	17.0	17.3
30	---	---	---	12.8	12.7	12.7	15.2	14.6	14.9	18.1	17.0	17.6
31	---	---	---	12.8	12.1	12.5	---	---	---	18.5	17.7	18.1
MONTH	7.6	4.7	6.4	13.9	6.3	9.4	15.2	11.7	13.5	---	---	---

03431300 BROWNS CREEK AT STATE FAIRGROUNDS AT NASHVILLE, TN

LOCATION.--Lat 36°07'47", long 86°45'40", Davidson County, Hydrologic Unit 05130202, near center of span on downstream side of bridge on access road to pit area of the race track at State Fairgrounds, 300 ft west of Craighead Street, 0.3 mi upstream from bridge on U.S. Highway 31A and 41A, and 2.8 mi southwest of the State Capitol in Nashville.

DRAINAGE AREA.--11.8 mi².

PERIOD OF RECORD.--December 1963 to September 1975. August 1993 to current year.

REVISED RECORDS.--WDR TN-94-1: 1975 (p).

GAGE.--Data collection platform. Datum of gage is 439.81 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 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 5	0420	1,640	7.25	Jun 30	1345	1,710	7.37
May 5	2130	*1,950	*7.77	Sep 22	0630	1,460	6.91
May 11	0420	1,450	6.88				

Minimum discharge, 2.9 ft³/s, Aug. 22, 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	44	5.4	7.8	33	13	26	14	21	5.4	62	5.9	3.3
2	21	5.2	7.2	24	12	22	12	13	14	30	4.7	18
3	15	6.3	5.9	21	32	18	11	9.0	11	21	16	39
4	35	6.1	94	18	27	16	10	7.6	5.9	15	27	11
5	19	51	95	17	19	15	61	638	5.1	12	11	7.6
6	14	22	42	14	21	14	80	403	44	10	6.1	6.0
7	13	15	30	13	17	12	107	465	31	8.7	5.1	5.1
8	10	13	23	12	15	11	61	202	13	7.5	15	4.6
9	10	12	19	11	15	10	43	108	9.8	7.3	5.4	4.2
10	167	35	48	9.7	19	9.2	42	66	19	12	4.5	3.8
11	105	20	53	8.7	16	8.7	31	229	51	7.3	16	3.7
12	52	15	34	7.9	15	8.0	25	72	17	5.7	11	3.6
13	34	13	65	7.4	14	8.4	21	45	12	8.1	8.3	3.4
14	25	11	43	7.0	264	8.5	18	31	9.3	5.3	5.7	23
15	20	54	33	6.5	357	7.5	16	24	35	4.6	4.8	5.1
16	16	30	27	6.5	324	6.7	14	20	30	4.3	4.3	4.7
17	14	23	25	6.8	151	6.3	70	37	17	4.0	4.0	3.9
18	12	19	20	6.0	90	6.0	24	22	13	3.8	6.4	3.6
19	12	18	87	6.3	81	40	18	16	10	3.6	3.9	3.4
20	14	14	51	7.7	70	14	15	13	8.1	3.4	4.6	3.2
21	9.8	13	34	14	65	11	39	13	6.8	6.4	3.6	28
22	8.5	11	27	9.1	365	10	16	11	5.7	6.1	15	487
23	7.7	10	22	9.8	186	9.2	14	9.2	5.1	6.8	7.0	68
24	7.1	9.2	62	7.5	106	8.5	14	8.2	4.6	4.2	4.2	30
25	6.9	8.4	32	7.6	70	9.9	17	11	4.2	3.8	3.7	19
26	7.4	12	25	7.3	52	20	13	7.9	16	3.5	3.2	14
27	6.4	8.3	22	6.7	42	11	11	6.8	24	3.3	22	11
28	6.7	7.4	19	7.2	32	9.7	9.6	6.8	6.3	7.5	5.2	8.7
29	13	7.2	17	31	---	48	8.6	8.4	4.7	20	5.6	7.5
30	6.4	7.0	14	17	---	19	7.6	6.2	172	5.4	4.5	6.9
31	5.7	---	20	14	---	16	---	5.7	---	19	3.8	---
TOTAL	737.6	481.5	1,103.9	374.7	2,490	439.6	842.8	2,535.8	610.0	321.6	247.5	840.3
MEAN	23.8	16.1	35.6	12.1	88.9	14.2	28.1	81.8	20.3	10.4	7.98	28.0
MAX	167	54	95	33	365	48	107	638	172	62	27	487
MIN	5.7	5.2	5.9	6.0	12	6.0	7.6	5.7	4.2	3.3	3.2	3.2
CFSM	2.02	1.36	3.02	1.02	7.54	1.20	2.38	6.93	1.72	0.88	0.68	2.37
IN.	2.33	1.52	3.48	1.18	7.85	1.39	2.66	7.99	1.92	1.01	0.78	2.65

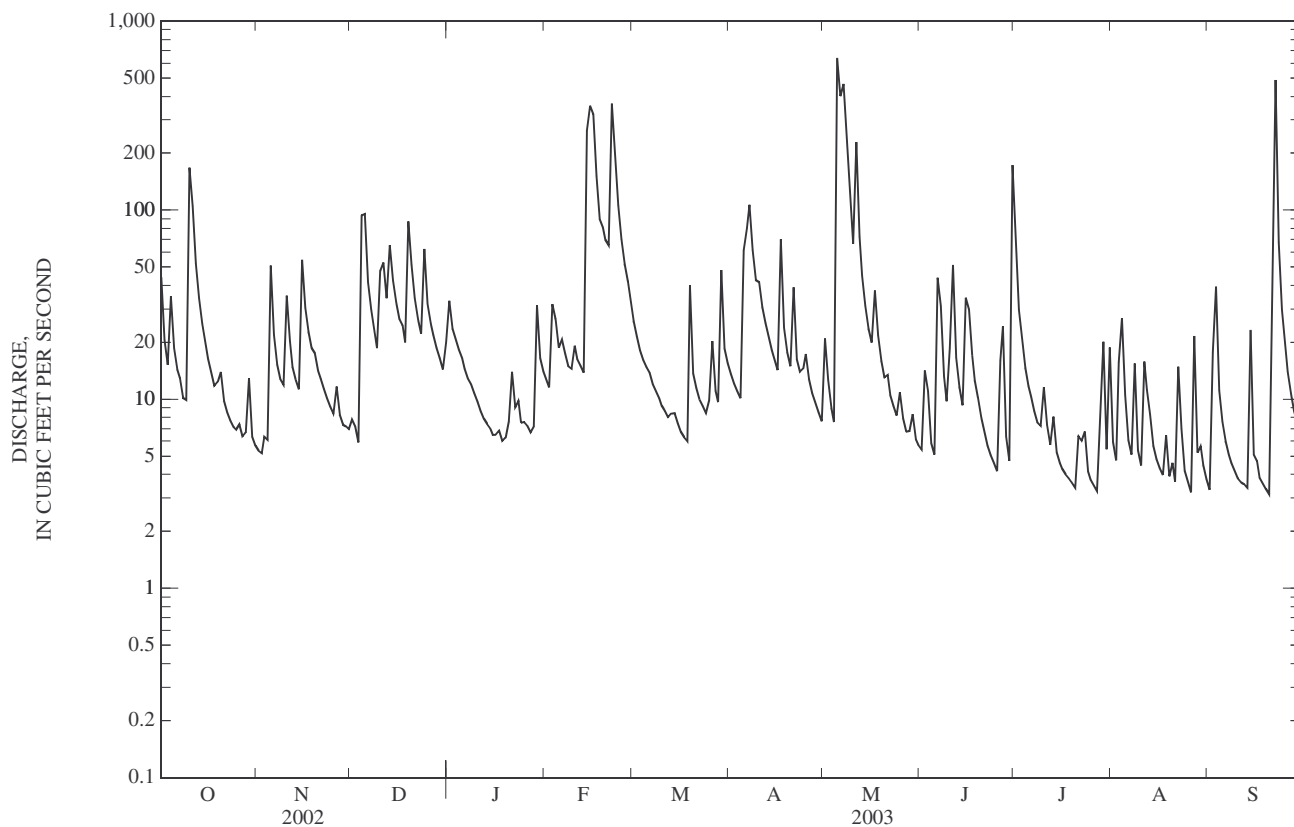
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2003, BY WATER YEAR (WY)

MEAN	6.03	13.1	21.5	25.9	28.5	36.6	23.3	21.9	14.4	7.43	6.45	7.27
MAX	24.5	34.8	63.8	86.5	88.9	102	50.3	81.8	61.0	19.8	23.2	28.0
(WY)	(1996)	(1974)	(1973)	(1974)	(2003)	(1975)	(1973)	(2003)	(1998)	(1967)	(1971)	(2003)
MIN	0.71	1.36	1.28	5.79	5.87	9.70	4.36	5.42	1.71	0.96	1.65	0.92
(WY)	(1966)	(1966)	(1966)	(1966)	(1967)	(1966)	(1967)	(1971)	(1966)	(1964)	(1968)	(1965)

03431300 BROWNS CREEK AT STATE FAIRGROUNDS AT NASHVILLE, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1964 - 2003	
ANNUAL TOTAL	8,776.6		11,025.3			
ANNUAL MEAN	24.0		30.2		17.9	
HIGHEST ANNUAL MEAN					30.2	2003
LOWEST ANNUAL MEAN					6.67	1966
HIGHEST DAILY MEAN	492	Mar 17	638	May 5	696	Mar 12, 1975
LOWEST DAILY MEAN	1.6	Sep 12	3.2	Aug 26	0.29	Sep 5, 1973
ANNUAL SEVEN-DAY MINIMUM	1.8	Sep 8	4.1	Sep 7	0.36	Sep 2, 1973
MAXIMUM PEAK FLOW			1,950	May 5	2,210	Nov 27, 1994
MAXIMUM PEAK STAGE			7.77	May 5	8.20	Nov 27, 1994
INSTANTANEOUS LOW FLOW			a2.9	Aug 22	0.15	Sep 5, 1973
ANNUAL RUNOFF (CF5M)	2.04		2.56		1.51	
ANNUAL RUNOFF (INCHES)	27.67		34.76		20.55	
10 PERCENT EXCEEDS	51		57		39	
50 PERCENT EXCEEDS	10		13		6.8	
90 PERCENT EXCEEDS	2.7		4.7		1.4	

a Also occurred Sept. 21.



034315005 CUMBERLAND RIVER AT WOODLAND STREET AT NASHVILLE, TN

LOCATION.--Lat 36°10'02", long 86°46'35", Davidson County, Hydrologic Unit 05130202, on left bank at northwest corner of Woodland Street Bridge, at Nashville, 3.5 mi downstream from Mill Creek, and at mile 190.9.

DRAINAGE AREA.--12,860 mi², approximately.

PERIOD OF RECORD.--May 1992 to current year. October 1892 to September 1954, monthly and yearly discharges published in WSP 1306 and 1726, October 1986 to September 1991, gage height, published as "at Nashville." Gage height record collected in this vicinity since 1873 are contained in reports of U.S. Weather Bureau.

GAGE.--Data collection platform and acoustic velocity meter. Datum of gage is 368.17 ft above NGVD of 1929. Prior to fall of 1922 inclined and vertical staff gage at site 350 ft downstream and from fall of 1922 to Apr. 9, 1940, staff gage at site 400 ft downstream, both gages at same datum. Nov. 1, 1930, to Sept. 30, 1954, upper staff gage at former lock 1, 2.7 mi downstream was used as auxiliary gage. Prior to May 1992 at site 0.2 mi upstream at same datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 203,000 ft³/s, Jan. 1, 1927, gage height 56.2 ft; minimum gage height observed after first filling of pool at dam 1, 6.1 ft, Oct. 19, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 144,000 ft³/s, May 8, maximum gage height, 38.05 ft, May 8, minimum daily discharge, 4,850 ft³/s, Oct. 6; minimum gage height, unknown.

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

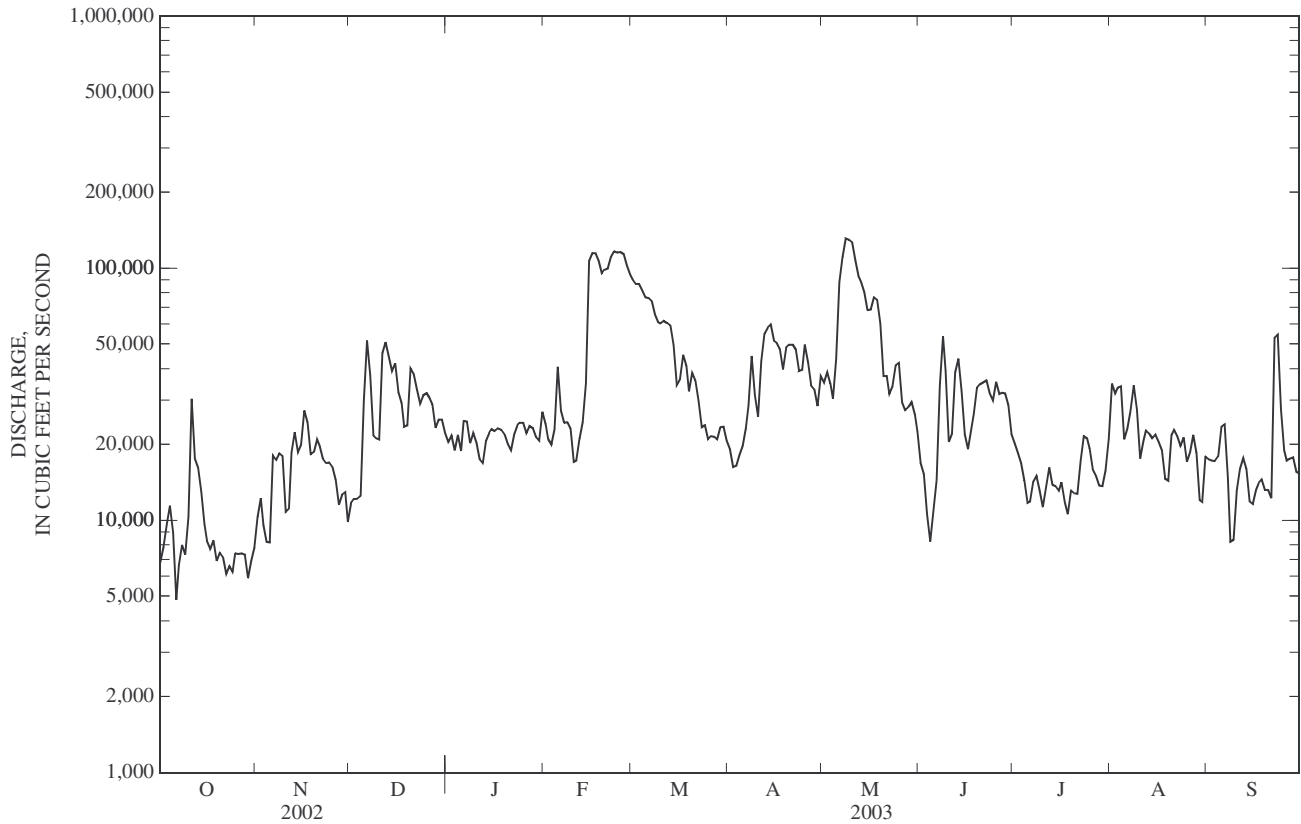
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,820	10,400	11,700	20,500	24,100	90,500	19,200	35,300	16,900	20,200	35,000	e17,500
2	7,870	12,200	12,200	21,700	21,000	86,900	16,300	38,800	15,300	18,600	32,000	e17,300
3	9,600	9,650	12,200	19,000	20,000	86,900	16,500	34,800	10,600	16,900	33,600	17,200
4	11,400	8,230	12,500	21,800	23,000	81,800	18,300	30,400	8,250	14,400	34,100	18,000
5	8,940	8,190	29,700	18,900	40,600	76,600	19,800	43,600	10,800	11,700	21,000	23,400
6	4,850	18,100	51,600	e24,900	27,200	76,600	23,300	88,000	14,500	11,900	23,200	24,000
7	6,650	17,400	37,600	e24,700	24,500	74,000	28,400	111,000	34,300	14,300	27,300	14,800
8	8,000	18,500	21,800	e20,200	24,500	65,500	44,800	131,000	53,800	15,000	34,200	8,250
9	7,310	18,000	21,200	e22,300	23,100	61,000	31,400	130,000	39,200	13,100	27,500	8,390
10	10,300	10,800	21,000	e20,400	17,100	60,500	25,700	127,000	20,500	11,300	17,600	13,200
11	30,400	11,100	e46,100	e17,500	17,300	62,000	42,800	108,000	22,200	13,400	20,600	16,100
12	17,600	18,600	e50,900	e16,900	21,100	60,900	55,000	93,200	38,800	16,200	22,800	17,700
13	16,200	22,300	44,700	e20,700	24,500	59,600	58,000	88,300	43,800	13,900	22,100	16,100
14	13,000	18,600	39,100	22,200	34,800	49,400	59,600	80,300	32,600	13,700	21,100	11,900
15	9,630	20,000	42,200	23,000	107,000	34,500	51,700	68,300	22,000	13,100	21,800	11,700
16	8,270	27,400	32,400	22,600	115,000	36,400	50,600	68,600	19,200	14,200	20,500	13,200
17	7,710	24,500	29,200	23,200	115,000	45,500	47,800	76,900	22,800	11,900	19,000	14,000
18	8,320	18,300	23,500	22,900	107,000	41,100	39,700	75,200	26,300	10,600	14,700	14,500
19	6,910	18,700	23,900	22,000	95,400	32,500	48,400	60,500	33,600	13,100	14,400	13,200
20	7,450	21,000	40,100	e20,100	98,700	38,500	49,800	e37,400	34,600	12,800	21,800	13,300
21	7,140	19,800	38,100	e19,000	99,700	35,900	49,800	e37,400	35,200	12,800	22,900	12,300
22	6,140	17,600	33,100	e22,000	111,000	29,800	47,500	e31,800	35,900	17,200	21,600	52,700
23	6,580	16,900	29,200	23,800	117,000	23,500	39,200	34,100	31,900	21,600	19,800	54,500
24	6,270	17,000	31,400	24,400	116,000	23,800	39,800	41,200	29,900	21,300	21,300	27,600
25	7,420	16,300	31,900	24,500	116,000	21,000	49,800	41,900	35,500	19,400	17,100	19,000
26	7,380	14,500	30,500	22,300	114,000	21,600	42,500	29,500	31,800	15,900	18,700	17,300
27	7,400	11,500	29,000	23,700	103,000	21,500	34,300	27,300	32,100	15,100	21,900	17,600
28	7,340	12,600	23,300	23,400	95,000	20,900	33,200	28,100	31,900	13,700	18,500	17,800
29	5,920	13,000	25,200	21,400	---	23,500	28,500	29,400	28,700	13,700	12,000	15,700
30	6,920	9,880	25,100	20,800	---	23,600	37,500	26,400	22,000	15,800	11,800	15,400
31	7,800	---	22,200	27,000	---	20,800	---	22,600	---	21,200	e17,900	---
TOTAL	283,540	481,050	922,600	677,800	1,852,600	1,486,600	1,149,200	1,876,300	834,950	468,000	687,800	553,640
MEAN	9,146	16,040	29,760	21,860	66,160	47,950	38,310	60,530	27,830	15,100	22,190	18,450
MAX	30,400	27,400	51,600	27,000	117,000	90,500	59,600	131,000	53,800	21,600	35,000	54,500
MIN	4,850	8,190	11,700	16,900	17,100	20,800	16,300	22,600	8,250	10,600	11,800	8,250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)

MEAN	9,836	12,250	20,370	28,030	33,430	38,180	33,200	25,290	20,130	14,010	14,300	11,570
MAX	18,380	22,670	40,930	43,570	71,760	82,050	92,860	60,530	50,810	20,320	22,190	18,820
(WY)	(1993)	(1996)	(1997)	(1994)	(1994)	(1994)	(1994)	(2003)	(1997)	(1992)	(2003)	(1992)
MIN	6,062	6,813	7,084	6,978	10,950	13,280	10,680	6,530	8,523	10,440	10,300	8,176
(WY)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(1995)	(2001)	(2001)	(2000)	(2002)	(1993)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1992 - 2003	
ANNUAL TOTAL	7,739,300		11,274,080			
ANNUAL MEAN	21,200		30,890		21,690	
HIGHEST ANNUAL MEAN					34,940 1994	
LOWEST ANNUAL MEAN					11,150 2000	
HIGHEST DAILY MEAN	100,000	Mar 18	131,000	May 8	131,000	May 8, 2003
LOWEST DAILY MEAN	4,850	Oct 6	4,850	Oct 6	3,220	May 20, 2001
ANNUAL SEVEN-DAY MINIMUM	6,840	Oct 19	6,840	Oct 19	5,020	Dec 27, 1999
MAXIMUM PEAK FLOW			144,000	May 8	144,000	May 8, 2003
MAXIMUM PEAK STAGE			38.05	May 8	39.26	Mar 4, 1997
10 PERCENT EXCEEDS	45,300		61,400		45,500	
50 PERCENT EXCEEDS	12,700		22,200		14,200	
90 PERCENT EXCEEDS	7,580		10,700		6,980	

e Estimated



WATER-QUALITY RECORDS

LOCATION.--Lat 36°10'59", long 86°49'56", Davidson County, Hydrologic Unit 05130202, on center pier of Nashville to Ashland City Railroad Bridge, 0.8 mi south of Bordeaux, 2.6 mi upstream of Whites Creek, and at mile 185.2.

DRAINAGE AREA.--12,862 mi², approximately.

PERIOD OF RECORD.--November 1996 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1996 to current year.

pH: November 1996 to current year.

WATER TEMPERATURE: November 1996 to current year.

DISSOLVED OXYGEN: November 1996 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1996.

REMARKS.--Flow regulated by Old Hickory Dam and other reservoirs above station. Periods of missing record were due to instrument malfunctions. Records for water temperature, for specific conductance and for pH are good and for dissolved oxygen are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 303 microsiemens, March 14, 2000; minimum, 171 microsiemens, June 4, 1998.

pH: Maximum, 9.0 units, Feb. 11, 2001; minimum, 6.6 units, Nov. 30, 1997, June 11, 1997.

WATER TEMPERATURE: Maximum, 27.8°C, July 14, 2000; minimum, 4.4°C, Feb. 3, 2000.

DISSOLVED OXYGEN: Maximum, 17.8 mg/L, Feb. 8, 2003; minimum, 3.6 mg/L, Oct. 26, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 279 microsiemens, Nov. 27, 28; minimum, 179 microsiemens, May 5, 22, 23, 24, 25.

pH: Maximum, 8.7 units, Apr. 2; minimum, 7.3 units, Aug. 6.

WATER TEMPERATURE: Maximum, 26.0°C, Aug. 20, 21; minimum, 3.8°C, Jan. 27.

DISSOLVED OXYGEN: Maximum, 17.3 mg/L, Feb. 8; minimum, 3.7 mg/L, Oct. 7.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	252	206	227	259	244	250	267	251	259	264	245	258
2	269	238	249	255	241	248	254	234	246	258	235	251
3	269	252	260	257	247	252	260	237	247	268	240	258
4	252	238	246	262	248	255	255	236	247	263	240	256
5	245	218	234	264	248	256	256	224	244	257	235	244
6	246	217	237	269	242	261	232	212	223	251	226	237
7	266	219	241	248	237	243	226	210	221	241	224	230
8	225	211	216	249	229	236	257	218	231	250	226	233
9	223	208	212	243	225	235	243	234	239	251	225	236
10	268	205	227	250	238	246	247	219	233	246	226	230
11	---	---	---	265	241	252	253	223	238	242	225	229
12	---	---	---	254	234	246	239	232	237	227	225	226
13	---	---	---	244	233	237	246	238	241	228	223	224
14	---	---	---	252	235	241	247	239	243	231	221	226
15	257	246	251	255	237	245	240	238	239	231	220	223
16	260	230	239	268	247	258	244	228	236	230	219	221
17	260	234	245	268	259	264	254	237	249	232	219	222
18	267	231	251	271	265	268	257	235	250	224	218	220
19	265	248	259	273	264	269	262	253	258	221	217	218
20	256	236	243	269	263	266	259	247	251	231	215	218
21	259	234	245	271	264	267	256	247	252	229	219	222
22	260	240	251	274	262	268	253	247	249	233	215	221
23	264	240	249	273	265	269	251	247	250	234	214	221
24	261	237	247	273	264	267	255	246	250	234	215	223
25	260	238	247	268	255	265	251	244	249	216	213	214
26	256	237	245	270	261	265	251	244	247	218	213	214
27	251	234	244	279	262	274	250	248	250	228	213	216
28	250	234	242	279	266	272	258	250	253	234	214	221
29	255	242	249	274	261	269	258	248	254	240	218	226
30	260	242	249	274	234	262	257	248	251	240	226	231
31	268	241	251	---	---	---	261	249	254	232	218	224
MONTH	---	---	---	279	225	257	267	210	245	268	213	229

03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	21.2	20.6	20.9	17.0	16.6	16.8	10.1	9.4	9.8	9.0	8.7	8.8
2	21.5	20.5	20.9	16.6	16.1	16.2	10.0	9.1	9.4	9.1	8.8	8.9
3	21.5	20.6	20.9	16.2	15.9	16.0	9.3	8.7	9.1	8.9	8.3	8.6
4	21.1	20.7	20.9	15.9	15.6	15.8	8.9	8.4	8.6	8.3	8.1	8.2
5	21.6	20.9	21.3	15.7	15.2	15.5	8.8	8.1	8.5	8.3	8.0	8.2
6	21.9	21.2	21.5	15.4	14.7	15.2	8.5	8.1	8.3	8.3	7.8	8.1
7	21.8	20.7	21.5	14.9	14.5	14.7	8.9	8.3	8.6	7.8	7.6	7.7
8	21.9	21.4	21.7	14.8	14.3	14.5	8.9	8.2	8.6	7.9	7.6	7.7
9	21.8	21.6	21.6	14.9	14.3	14.7	8.3	8.1	8.2	8.3	7.7	8.1
10	21.8	20.9	21.5	15.8	14.9	15.5	8.3	7.9	8.1	8.1	7.7	8.0
11	---	---	---	16.2	15.5	15.8	8.0	7.7	7.8	7.7	7.4	7.5
12	---	---	---	15.8	14.8	15.4	7.8	7.6	7.8	7.4	7.0	7.2
13	---	---	---	14.9	14.7	14.8	7.9	7.8	7.9	7.1	6.9	7.0
14	---	---	---	14.8	14.4	14.6	8.0	7.8	7.9	7.0	6.7	6.9
15	20.4	20.0	20.2	14.5	14.2	14.4	8.1	7.7	7.9	6.7	6.5	6.6
16	20.1	19.5	19.9	14.2	13.6	13.9	8.2	8.0	8.1	6.6	6.2	6.4
17	19.6	19.1	19.4	13.6	12.9	13.2	8.6	8.2	8.4	6.3	6.0	6.2
18	19.1	18.8	18.9	13.1	12.4	12.7	8.9	8.6	8.7	6.0	5.3	5.6
19	18.9	18.7	18.8	13.1	12.5	12.9	9.2	8.9	9.0	5.4	5.2	5.3
20	18.9	18.5	18.8	13.1	12.8	12.9	9.3	9.1	9.2	5.6	5.2	5.4
21	18.6	18.3	18.5	13.5	12.9	13.1	9.1	8.9	9.0	5.8	5.6	5.7
22	18.5	18.1	18.3	13.4	12.1	12.7	9.1	8.9	9.0	5.6	5.3	5.5
23	18.5	18.0	18.2	12.6	11.9	12.1	9.0	8.7	8.9	5.3	4.5	5.0
24	18.3	18.0	18.1	12.1	11.9	12.0	9.1	9.0	9.0	4.5	4.2	4.3
25	18.2	17.9	18.1	12.5	11.5	11.8	9.0	8.6	8.7	4.2	4.0	4.1
26	18.2	17.8	18.1	12.0	11.2	11.5	8.6	8.3	8.4	4.2	4.1	4.1
27	18.3	18.0	18.1	11.4	10.8	11.2	8.3	8.0	8.1	4.2	3.8	4.0
28	18.1	17.9	18.0	10.9	10.2	10.7	8.1	7.8	7.9	4.3	3.9	4.1
29	18.3	17.9	18.1	10.8	10.0	10.3	8.1	7.9	8.0	4.6	4.3	4.5
30	18.1	17.5	17.8	10.5	9.8	10.1	8.4	8.1	8.3	4.6	4.5	4.6
31	17.5	16.9	17.3	---	---	---	8.7	8.4	8.6	4.8	4.4	4.6
MONTH	---	---	---	17.0	9.8	13.7	10.1	7.6	8.5	9.1	3.8	6.4
	FEBRUARY			MARCH			APRIL			MAY		
1	5.2	4.8	5.0	6.6	6.5	6.5	12.9	12.3	12.6	15.4	15.0	15.2
2	5.6	5.1	5.4	6.6	6.4	6.6	13.5	12.7	13.1	15.4	15.0	15.2
3	6.3	5.6	5.9	6.6	6.3	6.4	13.6	13.3	13.4	15.6	15.2	15.4
4	6.5	6.2	6.4	7.0	6.4	6.6	---	---	---	15.7	15.1	15.4
5	6.3	5.8	6.1	7.3	7.0	7.2	---	---	---	16.9	15.7	16.3
6	6.4	6.2	6.3	7.3	7.0	7.3	---	---	---	16.1	15.5	15.7
7	6.3	5.8	6.1	7.3	6.9	7.1	---	---	---	16.0	15.7	15.9
8	5.8	5.5	5.7	7.8	7.2	7.5	---	---	---	16.3	15.9	16.0
9	5.8	5.4	5.5	8.0	7.7	7.8	---	---	---	16.4	16.2	16.3
10	5.8	5.5	5.7	7.8	7.4	7.7	---	---	---	17.0	16.2	16.5
11	6.0	5.3	5.7	7.7	7.3	7.5	---	---	---	17.6	17.0	17.3
12	6.3	5.8	6.0	8.2	7.5	7.9	---	---	---	17.7	17.3	17.5
13	6.4	5.7	6.1	8.4	8.0	8.2	---	---	---	17.9	17.4	17.7
14	6.7	6.2	6.5	8.6	8.3	8.5	12.5	12.2	12.4	18.1	17.9	18.0
15	7.4	6.7	7.1	9.2	8.5	8.8	13.0	12.3	12.7	18.1	17.9	18.0
16	7.4	6.9	7.0	9.4	8.9	9.2	13.0	12.8	12.9	18.1	17.8	17.9
17	7.6	7.0	7.4	9.5	9.3	9.4	13.6	13.0	13.2	17.8	17.4	17.6
18	7.6	6.9	7.3	9.8	9.4	9.6	---	---	---	17.4	17.2	17.3
19	7.1	6.9	7.0	10.5	9.6	10.1	---	---	---	17.4	17.3	17.4
20	7.3	7.0	7.2	10.8	10.2	10.5	---	---	---	17.3	17.0	17.1
21	7.2	7.1	7.1	10.9	10.5	10.7	14.2	13.9	14.1	17.1	16.7	16.9
22	7.4	7.1	7.3	11.0	10.4	10.7	14.2	13.6	13.9	16.9	16.7	16.8
23	7.2	6.8	6.9	11.2	10.7	10.8	14.2	13.5	13.9	17.1	16.6	16.9
24	7.2	6.8	7.1	11.9	11.2	11.6	14.2	13.8	14.0	17.2	16.6	17.0
25	7.2	6.7	6.9	12.6	11.8	12.2	13.8	13.7	13.8	17.2	16.7	16.9
26	6.7	6.6	6.6	13.0	12.3	12.6	13.7	13.4	13.6	16.9	16.6	16.8
27	6.7	6.6	6.7	13.2	12.2	12.7	14.0	13.4	13.7	17.0	16.6	16.9
28	6.6	6.6	6.6	13.9	13.1	13.6	14.4	13.8	14.1	17.2	16.5	16.9
29	---	---	---	13.6	12.6	13.3	15.0	14.3	14.6	17.4	17.1	17.2
30	---	---	---	12.8	12.5	12.7	15.1	14.6	14.8	17.8	17.0	17.4
31	---	---	---	12.3	12.3	12.5	---	---	---	18.3	17.8	18.0
MONTH	7.6	4.8	6.5	13.9	6.3	9.5	---	---	---	18.3	15.0	16.8

CUMBERLAND RIVER BASIN

03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.1	17.6	17.9	21.3	20.7	21.0	25.7	25.1	25.5	---	---	---
2	18.4	18.1	18.3	21.5	20.6	21.0	25.5	25.1	25.2	---	---	---
3	19.2	18.2	18.7	21.4	20.9	21.1	25.1	24.4	24.8	25.0	24.3	24.7
4	19.1	18.8	18.9	22.2	21.1	21.7	24.4	23.7	23.9	25.2	24.3	24.8
5	19.0	18.4	18.6	22.2	21.6	21.8	23.8	23.5	23.7	24.6	24.2	24.3
6	19.2	18.4	18.8	22.5	21.8	22.1	23.8	23.1	23.5	24.6	24.3	24.4
7	19.5	18.8	19.2	22.8	21.7	22.2	24.0	23.2	23.7	24.4	23.9	24.1
8	19.2	18.9	19.1	23.2	22.0	22.6	24.1	22.9	23.5	24.2	23.7	23.9
9	19.6	19.0	19.3	23.1	22.2	22.7	23.9	23.3	23.6	24.0	23.8	23.9
10	19.6	19.4	19.5	23.1	22.5	22.9	23.8	23.1	23.5	23.8	23.4	23.5
11	20.0	19.7	19.9	23.8	22.5	23.1	23.6	23.0	23.4	23.8	23.2	23.5
12	20.2	19.6	19.9	23.3	22.6	23.0	24.1	23.2	23.5	24.2	23.1	23.6
13	20.4	19.6	20.0	23.9	23.3	23.6	24.1	23.6	23.9	24.3	23.2	23.8
14	20.6	20.4	20.5	24.6	23.3	24.0	24.5	23.5	24.0	24.2	23.4	23.8
15	20.9	20.5	20.7	24.9	24.2	24.5	24.5	23.7	24.1	24.0	23.4	23.7
16	20.9	20.7	20.8	24.9	24.3	24.6	24.5	23.9	24.3	23.4	22.8	23.1
17	21.0	20.7	20.8	24.6	23.9	24.3	24.8	24.4	24.7	23.8	22.8	23.4
18	21.6	21.0	21.5	24.3	23.6	23.9	25.3	24.8	25.1	23.9	23.4	23.7
19	21.9	21.2	21.6	24.4	23.5	24.0	25.6	24.9	25.2	23.9	23.2	23.6
20	22.3	21.6	21.9	25.0	24.2	24.6	26.0	25.1	25.5	23.9	23.0	23.4
21	22.5	21.6	22.0	25.1	24.2	24.6	26.0	25.6	25.8	23.7	23.0	23.4
22	22.4	21.7	22.1	24.9	24.3	24.6	25.7	25.3	25.6	23.4	22.4	22.8
23	22.3	21.7	22.0	25.2	24.5	25.0	25.5	25.1	25.3	22.7	22.2	22.5
24	22.4	21.6	22.1	---	---	---	25.5	25.2	25.3	22.6	21.9	22.3
25	22.3	21.8	22.0	---	---	---	25.8	25.3	25.5	22.6	22.0	22.3
26	22.0	21.6	21.7	---	---	---	25.6	25.2	25.4	22.4	21.9	22.1
27	21.6	20.9	21.2	---	---	---	25.5	25.4	25.4	22.5	22.0	22.3
28	21.5	20.9	21.2	---	---	---	---	---	---	22.4	21.3	21.7
29	21.3	21.0	21.1	25.1	24.6	24.9	---	---	---	21.3	20.9	21.0
30	21.3	20.9	21.1	25.3	24.6	24.9	---	---	---	21.0	20.6	20.8
31	---	---	---	25.5	25.0	25.3	---	---	---	---	---	---
MONTH	22.5	17.6	20.4	---	---	---	---	---	---	---	---	---

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.3	7.6	8.5	---	---	---	12.2	11.8	12.0
2	---	---	---	9.2	8.0	8.6	---	---	---	11.9	11.6	11.8
3	---	---	---	8.7	8.3	8.5	---	---	---	12.0	11.7	11.8
4	---	---	---	8.7	8.2	8.5	---	---	---	12.2	11.8	12.0
5	---	---	---	9.1	8.0	8.7	---	---	---	12.4	12.0	12.2
6	---	---	---	8.9	8.0	8.3	---	---	---	12.3	12.0	12.1
7	6.2	3.7	4.6	8.9	8.5	8.7	---	---	---	12.7	12.1	12.4
8	7.8	6.2	7.0	9.1	8.6	8.9	---	---	---	12.8	12.3	12.6
9	8.0	6.7	7.0	9.1	8.2	8.6	---	---	---	12.7	12.4	12.6
10	8.2	4.6	7.1	8.9	8.2	8.5	11.0	10.6	10.8	12.8	12.3	12.6
11	---	---	---	8.7	8.2	8.4	11.1	10.6	10.7	13.0	12.5	12.8
12	---	---	---	8.5	8.1	8.2	11.6	11.1	11.4	13.5	12.9	13.2
13	---	---	---	8.5	7.9	8.2	11.4	10.9	11.1	13.7	13.0	13.4
14	---	---	---	8.4	8.0	8.2	11.2	11.0	11.1	13.5	13.2	13.3
15	---	---	---	8.1	7.7	7.9	11.2	11.0	11.1	13.2	12.7	13.0
16	9.7	5.3	7.8	---	---	---	11.3	11.0	11.1	13.1	12.7	12.9
17	9.6	5.2	7.3	---	---	---	11.4	11.2	11.3	13.5	12.9	13.2
18	9.3	4.8	6.9	---	---	---	11.9	11.2	11.6	14.0	13.3	13.6
19	7.3	5.0	6.0	8.6	6.8	7.9	12.1	11.8	12.0	14.4	13.7	14.1
20	8.3	6.8	7.7	9.7	7.1	8.3	11.8	11.5	11.6	14.7	14.1	14.4
21	7.9	6.1	7.1	9.4	6.1	7.8	12.0	11.7	11.8	14.6	14.3	14.5
22	7.6	5.1	6.3	9.8	6.4	8.2	12.0	11.7	11.9	15.1	14.5	14.8
23	8.0	5.4	6.9	9.8	6.6	8.4	12.0	11.7	11.9	15.5	14.8	15.1
24	8.0	5.8	7.1	8.6	7.5	8.0	11.9	11.6	11.8	16.1	15.4	15.7
25	8.8	5.7	7.1	10.3	7.3	8.4	11.7	11.4	11.6	16.1	15.8	16.0
26	8.8	5.8	7.4	10.2	6.9	8.2	11.9	11.4	11.7	16.2	15.8	16.0
27	9.0	6.8	8.0	7.8	7.2	7.6	12.1	11.7	11.9	16.5	16.0	16.1
28	8.9	7.4	8.2	8.7	7.8	8.3	12.4	11.9	12.1	16.4	16.2	16.3
29	8.7	6.9	7.9	9.6	8.4	8.9	12.5	12.1	12.3	16.4	16.1	16.1
30	9.0	7.6	8.3	10.0	8.8	9.4	12.4	12.0	12.3	16.4	16.0	16.2
31	9.3	8.0	8.7	---	---	---	12.4	12.1	12.3	16.7	16.3	16.4
MONTH	---	---	---	---	---	---	---	---	---	16.7	11.6	13.8

