

CUMBERLAND RIVER BASIN

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.

REMARKS.--Flow regulated by Old Hickory Dam and other reservoirs above station. Dissolved oxygen and specific conductance record poor May 28 to Sept. 30, equipment problems. Records for water temperature, specific conductance, pH and dissolved oxygen are poor for the year because of fluctuation in instrument readings. No max/min for year because of problems with instrumentation.

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: See REMARKS.

pH: See REMARKS.

WATER TEMPERATURE: See REMARKS.

DISSOLVED OXYGEN: See REMARKS.

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	213	207	210	234	221	228	252	239	243	272	262	266
2	256	211	222	236	222	231	243	239	241	272	259	264
3	233	208	217	243	222	233	243	240	242	272	261	266
4	233	208	215	227	224	225	247	241	244	271	260	265
5	230	206	214	229	226	227	247	242	245	271	261	265
6	217	208	214	243	228	236	248	233	242	261	258	260
7	219	209	215	240	228	235	248	233	245	260	256	259
8	238	211	217	242	227	234	249	233	243	282	257	265
9	238	213	222	241	225	234	255	233	245	267	253	258
10	226	210	216	238	220	232	246	229	233	259	248	252
11	242	211	220	232	221	224	246	230	238	264	239	248
12	235	212	218	226	221	222	247	235	242	245	238	240
13	236	---	218	236	220	230	250	241	245	240	231	235
14	220	---	---	240	221	229	251	242	247	234	228	231
15	238	213	223	235	221	227	250	236	241	243	227	232
16	235	212	222	235	218	225	249	235	241	233	222	227
17	241	223	232	234	214	223	252	236	245	231	219	225
18	249	226	239	229	214	218	262	247	252	233	220	224
19	244	219	232	225	216	219	262	251	258	223	215	219
20	237	217	226	246	220	231	260	247	254	249	213	225
21	239	214	224	245	222	233	261	251	257	252	213	222
22	245	215	224	243	224	234	264	254	261	245	217	227
23	239	221	230	239	---	237	263	248	256	237	216	230
24	243	212	226	---	---	---	265	251	258	239	216	223
25	232	210	223	---	---	---	266	250	259	253	239	249
26	235	215	223	238	221	---	258	248	252	251	231	239
27	234	215	226	232	221	225	263	251	256	253	242	249
28	227	214	221	240	220	230	265	254	259	252	243	247
29	228	212	217	240	221	229	268	258	263	252	244	247
30	240	217	230	244	224	235	274	261	267	245	239	241
31	237	227	232	---	---	---	276	264	269	242	227	236
MONTH	256	206	222	246	214	229	276	229	250	282	213	243

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SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	234	225	228	216	213	214	210	208	209	---	---	---
2	230	223	228	216	213	215	210	206	208	251	218	232
3	224	218	221	219	215	217	212	206	208	251	227	237
4	223	216	219	226	215	221	214	212	213	242	229	239
5	218	206	215	251	223	229	214	207	210	230	221	225
6	217	202	211	238	220	228	207	199	202	244	213	223
7	220	206	213	225	216	218	206	200	203	242	219	228
8	224	212	218	225	210	216	207	203	205	235	216	224
9	226	214	218	211	209	210	210	204	206	239	213	222
10	220	214	215	217	210	213	211	204	207	231	218	223
11	244	214	222	218	210	216	207	197	201	227	210	215
12	228	215	220	219	208	214	204	195	198	224	208	214
13	231	216	221	215	211	213	202	196	198	218	205	209
14	233	220	225	216	213	215	199	196	197	215	201	208
15	233	219	226	216	213	215	196	195	196	214	194	206
16	228	218	223	215	212	214	205	196	200	213	199	6
17	229	220	224	238	208	218	206	196	200	217	198	209
18	230	217	221	217	203	211	202	196	201	219	198	210
19	237	219	227	220	213	216	206	197	201	202	181	191
20	225	219	221	225	214	220	204	198	200	208	192	198
21	229	220	222	227	225	227	204	199	201	215	198	203
22	233	220	226	226	203	217	203	200	201	214	198	204
23	225	219	221	203	199	200	218	200	207	223	208	213
24	221	218	219	205	200	203	221	206	212	223	206	213
25	233	216	222	208	205	207	221	210	214	223	208	213
26	222	216	219	209	202	206	---	---	---	224	208	213
27	229	213	217	206	202	205	---	---	---	214	197	208
28	228	213	220	209	201	205	---	---	---	216	193	204
29	---	---	---	210	202	206	---	---	---	215	184	197
30	---	---	---	211	202	206	---	---	---	213	189	197
31	---	---	---	215	207	211	---	---	---	209	181	194
MONTH	244	202	221	251	199	214	221	195	204	251	181	206
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	203	192	197	214	202	207	205	185	193	200	181	195
2	203	190	195	218	204	208	205	182	191	198	181	192
3	204	192	199	218	201	208	213	182	194	198	---	193
4	210	196	202	211	200	206	196	181	189	201	187	196
5	209	192	202	211	201	207	199	182	190	238	193	208
6	210	194	203	206	197	201	199	183	190	213	190	201
7	207	197	204	211	193	200	206	189	197	214	185	198
8	207	200	204	206	193	199	198	182	190	195	188	192
9	210	201	206	211	201	205	194	180	187	192	181	189
10	212	198	203	216	201	209	196	179	189	195	180	191
11	234	203	217	213	206	210	190	179	184	195	183	191
12	218	207	212	218	201	208	193	182	188	192	181	188
13	217	209	214	225	205	216	192	180	188	199	186	191
14	218	210	210	223	203	213	194	182	188	199	180	192
15	219	210	214	233	212	216	191	181	186	196	183	192
16	223	212	216	225	208	216	192	183	188	195	180	192
17	221	210	214	215	198	207	195	186	191	202	187	197
18	218	206	212	209	192	202	198	183	191	198	188	194
19	212	197	205	207	188	201	195	187	193	201	185	193
20	218	201	208	209	192	198	195	180	192	196	186	193
21	223	209	214	204	193	197	198	183	192	202	185	194
22	219	201	207	206	194	198	198	188	195	204	190	197
23	218	200	206	197	188	193	202	187	196	200	188	195
24	213	199	204	202	190	195	203	192	199	237	195	211
25	208	190	202	206	193	201	205	194	200	207	193	200
26	206	199	204	220	193	203	203	185	197	214	186	197
27	213	199	204	198	189	193	203	190	197	221	193	208
28	218	198	205	199	189	194	201	185	195	230	209	222
29	216	202	207	194	185	191	201	188	197	237	208	226
30	208	200	205	197	188	191	203	188	195	252	224	233
31	---	---	---	193	187	190	200	190	195	---	---	---
MONTH	234	190	206	233	185	203	213	179	192	252	180	199

CUMBERLAND RIVER BASIN

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PH, WH, FIELD, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

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WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	20.1	19.5	19.8	16.5	14.6	15.7	13.9	13.6	13.7	8.0	7.1	7.5
2	20.5	19.3	19.6	17.2	15.5	16.3	13.8	13.5	13.6	7.3	6.9	7.1
3	19.7	19.1	19.5	17.5	15.7	16.6	13.8	13.2	13.5	7.0	6.4	6.8
4	20.0	19.1	19.6	16.6	15.1	16.0	14.0	13.1	13.5	6.8	6.0	6.4
5	20.4	19.4	19.8	16.3	15.0	15.6	14.0	13.4	13.6	7.2	5.9	6.4
6	19.9	18.8	19.4	16.4	14.8	15.5	14.0	13.6	13.7	6.4	5.9	6.2
7	18.9	18.2	18.5	16.3	14.7	15.4	14.1	13.6	13.9	6.3	5.6	5.9
8	19.0	18.1	18.5	16.2	14.5	15.5	14.1	13.5	13.8	6.7	5.5	5.9
9	18.9	18.0	18.5	16.2	15.1	15.6	13.5	12.9	13.3	6.5	5.7	6.1
10	19.6	18.5	18.9	15.9	14.7	15.3	12.9	12.7	12.7	6.6	6.1	6.3
11	19.0	18.6	18.8	15.7	14.5	15.2	12.8	12.6	12.7	7.3	6.4	6.8
12	18.8	18.6	18.7	15.6	14.4	15.0	12.9	12.6	12.8	7.5	6.4	6.8
13	19.3	18.6	18.9	15.4	14.4	14.9	13.2	12.9	13.0	7.4	6.4	6.8
14	19.5	18.8	19.0	15.4	14.6	15.0	13.1	12.9	13.0	7.8	6.6	7.0
15	19.0	18.6	18.7	15.7	14.5	15.0	12.9	12.7	12.8	7.9	6.8	7.2
16	18.6	17.7	18.3	15.5	14.5	14.8	13.1	12.9	13.0	7.8	6.7	7.2
17	17.9	17.0	17.5	15.5	14.3	14.9	13.4	13.1	13.2	7.6	7.2	7.4
18	17.7	16.9	17.2	15.5	14.1	14.9	13.4	12.9	13.1	7.8	7.0	7.3
19	17.5	16.9	17.2	15.0	14.5	14.7	12.9	12.3	12.6	7.5	7.0	7.2
20	17.8	17.0	17.3	14.9	13.8	14.4	12.3	11.8	12.0	7.4	6.8	7.1
21	18.2	17.0	17.5	14.4	13.0	13.8	12.2	11.5	11.8	7.8	7.1	7.4
22	18.1	17.1	17.5	14.1	13.0	13.5	12.0	11.4	11.7	7.6	7.1	7.4
23	18.4	17.4	17.9	14.0	13.0	13.7	12.1	11.1	11.6	8.1	7.5	7.8
24	19.1	18.0	18.5	14.4	13.7	14.1	11.3	10.5	11.0	8.9	7.8	8.4
25	18.6	17.6	18.1	14.6	13.8	14.1	10.5	10.2	10.4	8.2	7.3	7.6
26	17.6	16.6	17.2	14.2	13.5	14.0	10.2	9.5	9.8	9.2	8.2	8.8
27	17.0	15.6	16.4	14.5	14.2	14.4	9.7	9.2	9.4	9.1	8.8	8.9
28	16.6	15.3	15.8	14.5	14.2	14.4	9.4	9.0	9.2	9.5	8.9	9.3
29	16.1	15.0	15.5	14.3	14.1	14.2	9.6	8.5	9.1	10.0	9.5	9.8
30	16.1	14.9	15.6	14.2	13.8	14.1	9.2	8.0	8.5	10.4	10.0	10.2
31	16.3	14.9	15.7	---	---	---	8.5	7.4	7.9	11.4	10.4	10.8
MONTH	20.5	14.9	18.0	17.5	13.0	14.9	14.1	7.4	12.1	11.4	5.5	7.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	11.5	10.8	11.1	8.6	7.9	8.3	11.3	10.9	11.1	18.4	17.7	18.1
2	10.8	10.5	10.6	8.6	8.3	8.4	11.9	11.2	11.5	18.0	17.6	17.8
3	10.5	10.1	10.3	8.5	7.9	8.3	12.1	11.8	11.9	18.0	17.4	17.6
4	10.1	9.6	9.9	8.8	7.2	7.8	11.8	11.5	11.7	17.4	17.1	17.3
5	9.6	9.2	9.3	8.3	7.3	7.8	11.9	11.4	11.7	17.8	17.1	17.5
6	9.2	8.8	8.9	8.7	7.6	8.2	12.0	11.6	11.8	17.6	17.4	17.5
7	8.8	8.3	8.5	9.3	8.3	8.7	12.1	11.7	12.0	18.2	17.4	17.8
8	8.6	8.2	8.4	9.5	8.6	9.0	12.4	12.0	12.2	18.6	17.6	18.1
9	9.0	8.4	8.7	9.8	9.0	9.3	12.6	12.3	12.4	18.2	17.9	18.0
10	9.1	8.8	8.9	10.1	8.8	9.4	12.8	12.2	12.5	18.0	17.6	17.8
11	9.3	8.8	9.0	10.1	8.7	9.3	13.3	12.6	12.9	18.0	17.6	17.8
12	9.2	8.6	8.9	10.1	9.3	9.7	13.9	13.2	13.5	18.1	17.7	17.9
13	9.2	8.6	8.8	10.4	9.6	10	14.2	13.7	13.9	17.9	17.4	17.7
14	9.1	8.4	8.7	10.8	9.7	10.3	14.6	14.1	14.3	17.4	16.9	17.1
15	9.0	8.6	8.8	11.2	10.6	11.0	15.2	14.4	14.8	17.1	16.6	16.9
16	9.3	8.7	8.9	11.3	10.8	11.1	16.1	15.2	15.7	17.3	16.9	17.0
17	9.3	8.7	9.0	12.1	10.7	11.0	16.8	15.8	16.3	17.3	17.0	17.1
18	9.4	8.6	9.0	11.7	11.4	11.5	16.8	16.1	16.5	17.2	16.4	16.9
19	9.2	8.9	9.0	12.1	11.4	11.7	17.7	16.4	17.0	16.2	15.7	15.9
20	9.9	9.1	9.5	12.1	12.0	12.1	17.7	16.7	17.3	16.1	15.4	15.8
21	10.1	9.3	9.6	12.2	11.9	12.0	18.0	17.4	17.7	16.3	15.6	15.9
22	9.8	9.4	9.6	11.9	11.1	11.4	18.5	17.0	17.9	16.4	15.6	16.0
23	9.9	9.2	9.5	11.4	11.0	11.2	17.8	16.8	17.3	16.9	16.1	16.5
24	10.0	9.4	9.7	11.4	11.0	11.2	18.0	17.4	17.7	17.0	16.5	16.8
25	10.1	9.5	9.8	11.3	10.8	11.1	18.1	17.4	17.7	17.5	16.7	17.1
26	9.9	9.1	9.6	11.3	10.9	11.2	17.8	16.8	17.5	17.6	17.3	17.5
27	9.1	8.3	8.6	10.9	10.5	10.7	17.5	16.7	17.2	18.4	17.4	17.9
28	8.7	8.1	8.4	10.9	10.3	10.6	18.3	17.3	17.8	18.5	18.0	18.2
29	---	---	---	11.6	10.8	11.2	18.4	17.7	18.0	19.2	18.1	18.6
30	---	---	---	11.6	11.3	11.4	18.3	17.4	18.0	19.8	18.4	19.0
31	---	---	---	11.3	11.1	11.2	---	---	---	20.0	18.5	19.3
MONTH	11.5	8.1	9.2	12.2	7.2	10.2	18.5	10.9	14.9	20.0	15.4	17.4

CUMBERLAND RIVER BASIN

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

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	20.0	19.1	19.6	27.4	25.3	26.1	26.5	25.0	25.8	27.4	25.4	26.3
2	20.6	19.1	19.9	27.4	25.6	26.4	27.5	25.0	26.2	27.4	25.3	26.1
3	22.3	19.4	20.4	26.8	25.7	26.3	26.5	25.4	25.9	27.6	25.3	26.2
4	21.5	19.8	20.7	27.4	25.6	26.5	27.2	25.2	26.2	27.2	25.1	26.0
5	22.3	20.3	21.1	27.4	26.0	26.7	26.7	25.3	26.0	25.9	24.5	25.2
6	22.0	20.2	21.2	27.4	26.4	26.9	26.7	25.0	25.8	26.2	23.9	25.2
7	21.4	19.9	20.7	27.9	25.9	26.8	26.0	24.1	25.2	26.4	24.1	25.4
8	23.3	20.8	22.2	27.5	26.0	26.8	26.8	24.9	26.1	26.0	24.8	25.5
9	23.8	21.7	22.7	27.3	25.6	26.5	28.2	25.5	26.6	26.2	24.5	25.4
10	23.8	22.3	23.1	27.6	25.4	26.2	27.1	25.5	26.3	26.4	24.5	25.3
11	23.6	21.8	22.8	26.7	25.5	26.1	27.4	25.8	26.6	26.8	24.4	25.5
12	24.2	22.7	23.6	27.6	25.5	26.7	27.4	25.6	26.3	25.9	24.1	25.1
13	24.4	22.9	23.7	26.7	25.4	26.1	26.7	25.3	26.1	26.2	24.9	25.7
14	24.0	22.4	23.3	26.9	25.3	26.0	27.5	25.5	26.3	26.1	24.8	25.4
15	24.6	22.5	23.4	27.0	24.4	26.0	26.6	25.5	26.2	26.5	25.1	25.8
16	23.4	22.6	23.0	27.3	25.1	26.3	26.5	25.4	25.9	26.8	24.7	25.6
17	24.8	22.5	23.7	26.9	25.6	26.3	26.5	25.2	25.9	25.9	24.4	25.3
18	25.6	23.4	24.6	26.5	25.0	26.0	27.2	25.3	26.1	25.6	24.1	24.9
19	25.6	23.7	24.7	26.6	24.9	25.8	28.0	25.1	26.1	26.2	24.4	25.3
20	25.9	23.7	24.9	26.6	25.2	25.9	27.1	25.5	26.2	26.5	24.7	25.5
21	25.7	23.8	24.8	27.7	25.4	26.2	27.2	25.4	26.2	26.2	24.2	25.3
22	25.8	23.9	24.9	27.1	25.4	26.3	27.4	25.5	26.4	25.6	23.9	24.7
23	25.2	24.0	24.6	27.4	25.7	26.4	27.2	25.2	26.0	24.6	23.1	23.9
24	25.6	24.3	25.0	26.6	25.6	26.2	27.0	25.1	25.9	24.3	23.0	23.6
25	25.6	24.0	25.0	27.3	25.9	26.6	26.6	24.7	25.6	23.7	22.6	23.2
26	25.9	23.9	25.0	27.0	25.9	26.7	26.2	24.5	25.3	23.4	21.4	22.6
27	25.8	24.5	25.1	26.9	26.0	26.4	26.7	24.8	25.6	22.3	21.3	22.0
28	25.8	24.2	25.1	26.9	25.6	26.3	27.0	25.2	25.9	22.6	21.0	21.7
29	26.5	24.6	25.5	27.5	24.8	26.1	27.2	25.4	26.1	22.7	21.0	21.8
30	27.6	25.0	26.1	26.8	24.8	25.8	26.9	25.4	26.1	22.8	20.9	21.9
31	---	---	---	26.0	24.6	25.3	27.5	25.7	26.5	---	---	---
MONTH	27.6	19.1	23.3	27.9	24.4	26.3	28.2	24.1	26.0	27.6	20.9	24.7

OXYGEN DISSOLVED, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	10.0	9.2	9.6	9.5	7.2	8.6	---	---	---	12.2	11.4	11.8
2	9.8	8.6	9.2	9.6	8.1	8.8	---	---	---	12.4	12.0	12.2
3	9.5	8.3	9.1	9.1	7.8	8.6	9.3	9.1	9.2	12.9	12.0	12.4
4	10.2	8.3	9.3	9.6	7.7	8.6	9.5	8.8	9.2	13.2	12.4	12.7
5	10.2	8.4	9.3	9.5	7.4	8.2	9.9	9.1	9.6	13.8	12.8	13.1
6	10.2	8.6	9.4	9.7	6.7	8.1	10.2	9.6	9.8	13.4	12.8	13.1
7	9.3	8.2	8.8	9.5	7.0	8.3	10.1	9.4	9.8	13.8	12.8	13.3
8	10.1	8.5	9.5	9.7	7.7	8.8	9.8	9.3	9.5	13.7	12.9	13.2
9	10.1	8.2	9.0	10.2	7.8	8.9	10.0	9.6	9.8	14.1	12.9	13.5
10	10.1	8.5	9.2	9.6	7.3	8.4	10.2	9.7	10	13.8	13.4	13.5
11	9.0	6.9	8.2	9.8	8.0	9.3	10.2	9.9	10.0	13.9	12.7	13.4
12	8.8	6.9	7.6	10.2	8.4	9.5	10.2	9.9	10	14.8	12.9	13.5
13	7.9	5.8	7.0	9.6	8.0	8.7	10.2	9.9	10.1	14.0	12.9	13.6
14	8.5	7.1	7.9	9.9	7.8	9.0	10.6	10.1	10.3	14.4	13.2	13.8
15	8.6	7.7	8.1	9.6	8.5	9.0	10.8	10.5	10.6	14.3	13.0	13.6
16	9.1	7.4	8.2	9.5	8.3	8.9	10.8	10.5	10.7	14.6	13.0	13.8
17	8.1	6.0	7.2	9.9	8.4	9.1	10.7	10.4	10.6	14.3	12.7	13.6
18	7.5	5.0	6.3	10.1	8.0	9.2	10.8	10.4	10.6	14.9	13.5	14.1
19	8.3	5.3	7.2	9.9	8.6	9.1	10.6	10.4	10.5	14.0	13.7	13.9
20	10.3	6.4	8.1	10.2	7.3	8.8	10.6	10.2	10.3	14.3	12.9	13.9
21	10.2	7.1	8.2	9.3	7.7	8.6	10.4	9.9	10.1	14.8	13.7	14.3
22	10.2	6.3	8.6	10.2	7.1	8.8	10.1	9.7	9.9	14.7	13.5	14.3
23	9.2	7.0	8.1	10.2	7.3	9.2	---	---	---	14.1	13.4	13.7
24	10.8	6.5	8.9	9.8	8.3	9.1	---	---	---	14.5	13.3	13.8
25	10.1	7.7	9.1	10.4	8.6	9.7	---	---	---	14.4	13.2	14.1
26	9.6	8.0	9.1	10.3	8.8	9.7	---	---	---	13.2	12.5	12.7
27	10.4	7.8	8.9	9.6	8.6	9.2	10.4	9.9	10.2	12.7	12.0	12.5
28	10.4	8.7	9.4	9.4	8.1	9.1	11.0	10.0	10.6	12.6	11.4	12.0
29	11.1	9.1	10.1	9.5	8.7	9.2	11.4	10.2	10.9	11.5	10.4	11.1
30	9.7	7.4	8.7	---	---	---	11.9	10.8	11.3	11.2	10.1	10.9
31	8.7	7.4	8.2	---	---	---	12.2	11.1	11.5	---	---	---
MONTH	11.1	5.0	8.6	10.4	6.7	8.9	12.2	8.8	10.2	14.9	10.1	13.2

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

OXYGEN DISSOLVED, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	13.3	12.8	13.1	10.4	9.9	10.3	9.5	8.7	9.0
2	---	---	---	12.9	12.3	12.6	10.4	10.1	10.2	9.1	8.3	8.6
3	---	---	---	12.8	12.0	12.5	10.3	10.0	10.1	8.4	8.2	8.3
4	10.9	---	---	13.0	11.5	12.4	10.3	9.8	10.0	8.3	8.1	8.2
5	11.1	10.3	10.7	13.0	11.9	12.5	9.8	9.4	9.5	8.8	8.3	8.5
6	11.6	10.6	11.1	12.9	11.6	12.4	9.8	9.4	9.7	8.6	7.8	8.3
7	11.9	10.9	11.4	12.6	11.5	12.1	10.0	9.7	9.8	8.4	7.9	8.1
8	12.0	11.4	11.7	12.4	11.0	11.9	9.9	9.6	9.7	9.4	8.0	8.6
9	12.1	11.4	11.8	---	---	---	9.8	9.6	9.7	9.3	8.5	8.7
10	12.3	11.5	11.9	---	---	---	10.2	9.6	9.8	9.1	8.3	8.7
11	12.6	11.6	12.1	---	---	---	10.2	9.8	9.9	9.3	8.8	9.1
12	12.8	12.0	12.4	13.0	11.5	12.4	10.0	9.7	9.8	9.1	8.6	8.8
13	13.0	12.2	12.6	12.9	11.2	12.0	10.0	9.5	9.8	9.0	7.8	8.2
14	13.2	11.7	12.8	12.6	11.3	12.0	10.0	9.6	9.8	10.6	7.9	9.2
15	13.3	12.1	13.0	12.3	11.3	11.9	10.2	9.6	9.9	10.3	9.0	9.7
16	13.3	12.9	13.2	11.7	11.0	11.2	10.2	9.8	10	9.9	9.0	9.5
17	13.4	12.9	13.2	11.0	9.8	10.4	10.3	9.2	9.8	9.6	8.8	9.3
18	13.6	13.0	13.4	10.7	10.3	10.6	10.2	9.0	9.6	9.5	8.8	9.1
19	13.8	13.1	13.5	10.3	9.3	9.8	11.0	9.2	10.3	10.9	10.2	10.6
20	13.7	13.0	13.5	9.5	9.2	9.4	10.6	9.9	10.3	10.9	9.9	10.4
21	14.2	13.2	13.6	9.6	9.3	9.4	10.4	9.8	10.1	10.7	9.7	10.2
22	13.9	13.2	13.6	9.6	9.3	9.5	10.4	9.2	9.9	11.2	9.7	10.6
23	13.9	13.2	13.6	9.6	9.5	9.6	9.8	8.9	9.4	11.8	10.1	11.0
24	13.8	13.2	13.6	9.6	9.2	9.5	9.4	8.8	9.3	11.9	10.9	11.4
25	14.0	12.8	13.7	9.8	9.6	9.7	9.3	8.6	8.9	12.3	11.3	12.0
26	13.6	13.0	13.4	9.8	9.5	9.7	9.6	9.1	9.3	11.3	9.9	10.7
27	13.4	12.7	13.1	10.4	9.8	10.1	9.4	8.9	9.1	---	---	---
28	13.6	12.9	13.2	10.2	10.0	10.1	9.4	8.5	9.0	9.6	7.9	9.0
29	---	---	---	10.0	9.7	9.9	9.3	8.6	8.9	---	---	---
30	---	---	---	10.0	9.8	9.9	9.8	8.7	9.4	---	---	---
31	---	---	---	10.0	9.7	9.8	---	---	---	---	---	---
MONTH	14.2	10.3	12.8	13.3	9.2	10.9	11.0	8.5	9.7	12.3	7.8	9.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	8.3	5.8	6.6	6.2	4.6	5.6	---	---	---
2	---	---	---	7.4	5.8	6.4	7.0	5.1	6.1	---	---	---
3	---	---	---	6.8	5.6	6.2	6.4	4.0	5.4	6.5	5.0	5.2
4	---	---	---	6.8	5.8	6.3	5.9	4.6	5.4	5.0	4.7	4.9
5	---	---	---	7.2	5.7	6.3	5.5	4.0	4.7	5.1	4.5	4.5
6	8.9	7.6	8.3	7.6	6.0	7.0	4.6	4.1	4.4	6.0	4.4	4.9
7	8.1	7.3	7.8	8.0	5.9	7.1	4.8	3.6	4.1	6.1	4.5	5.3
8	8.3	7.2	7.7	7.4	5.8	6.7	5.4	3.6	4.7	5.6	4.5	5.0
9	8.3	7.4	7.9	7.3	5.9	6.6	6.0	3.7	4.9	5.3	4.5	4.9
10	8.3	7.3	7.8	6.8	5.2	6.1	---	4.1	---	---	4.5	---
11	---	---	---	6.1	5.0	5.6	5.9	4.0	5.1	5.5	4.5	5.2
12	---	---	---	6.1	5.1	5.7	5.6	3.8	4.8	5.3	5.1	5.2
13	---	---	---	6.5	5.1	5.7	5.9	4.0	4.9	7.2	4.4	5.7
14	---	---	---	8.0	5.7	6.7	6.3	4.0	5.3	7.2	5.2	6.1
15	---	---	---	7.9	5.1	6.4	6.4	4.4	5.5	7.0	5.3	6.3
16	---	---	---	7.4	5.4	6.6	6.2	4.2	5.4	6.6	5.2	6.0
17	---	---	---	8.0	5.1	6.7	6.9	5.2	5.9	6.5	5.0	5.8
18	6.2	5.2	5.8	7.3	5.4	6.2	6.6	4.6	6.0	6.6	4.5	5.5
19	6.2	5.2	5.8	6.8	5.5	6.3	6.6	4.8	5.6	8.1	5.1	6.5
20	6.8	5.3	6.1	6.7	5.1	5.8	6.3	4.9	5.7	8.1	5.6	6.8
21	6.6	5.4	5.9	6.6	5.1	5.9	6.0	5.3	5.7	7.5	5.1	6.3
22	7.1	5.3	6.2	7.1	5.2	6.0	6.2	4.6	5.5	8.2	5.5	6.1
23	6.5	5.6	6.1	6.9	5.2	6.2	5.3	4.5	4.8	8.4	6.7	7.7
24	6.5	5.6	6.0	6.5	5.0	5.7	---	---	---	8.1	7.9	8.1
25	6.4	5.4	5.8	6.2	5.1	5.6	---	---	---	8.1	5.1	6.3
26	6.0	5.4	5.7	6.4	5.0	5.7	---	---	---	6.5	4.7	5.4
27	6.7	5.5	6.0	6.5	5.1	5.9	---	---	---	5.6	4.8	5.2
28	7.2	5.5	6.3	6.4	5.0	5.7	---	---	---	7.3	4.0	5.3
29	7.1	5.5	6.1	6.2	5.2	5.7	---	---	---	7.8	4.5	5.3
30	7.4	5.7	6.5	6.0	5.3	5.7	---	---	---	7.3	4.1	5.0
31	---	---	---	5.8	5.0	5.4	---	---	---	---	---	---
MONTH	8.9	5.2	6.5	8.3	5.0	6.1	7.0	3.6	5.2	8.4	4.0	5.7

CUMBERLAND RIVER BASIN

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)
Nov 29	1030	1,060	5.95	Jul 12	1610	1,510	7.01
Mar 17	2000	*2,160	*8.09	Aug 16	1400	1,380	6.73
May 1	0030	1,100	6.05				

Minimum discharge, 1.4 ft³/s, Oct. 1, 2, 3, 4, 5.

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	1.4	2.9	30	4.5	46	6.2	105	95	4.0	11	3.1	1.9
2	1.4	2.8	17	4.5	21	5.9	67	24	3.7	5.2	2.8	1.8
3	1.4	2.7	13	4.3	22	5.5	49	18	3.4	43	2.7	1.7
4	1.4	2.7	10	4.6	17	5.4	38	37	7.6	20	2.5	2.3
5	39	2.5	8.3	4.8	15	5.4	30	20	5.9	6.4	2.4	1.9
6	8.1	2.4	8.5	4.7	15	5.3	24	16	38	4.8	2.3	12
7	3.6	2.4	13	4.1	19	5.2	21	14	5.7	3.9	2.3	2.7
8	3.1	2.3	54	3.9	16	5.0	18	11	4.6	13	2.2	2.2
9	2.5	2.2	20	4.1	14	15	16	12	4.1	28	2.0	2.0
10	2.2	2.2	16	6.1	15	6.6	14	16	3.7	19	2.0	1.8
11	3.8	2.2	13	6.9	12	6.6	13	9.5	3.4	8.4	2.0	1.7
12	18	2.3	19	4.6	11	12	14	7.8	3.1	160	1.9	1.6
13	38	2.4	88	4.5	10	7.9	10	130	6.0	76	1.9	1.6
14	70	2.4	58	4.3	9.6	7.5	8.9	37	3.0	28	45	1.8
15	12	2.2	28	4.0	9.0	6.8	8.6	24	2.7	17	12	34
16	8.0	2.1	19	3.9	8.4	23	7.8	18	2.6	12	101	6.1
17	5.7	2.0	27	5.1	7.6	492	7.1	30	2.4	9.3	18	6.0
18	4.7	2.0	16	6.4	7.2	328	6.6	18	2.3	13	19	5.9
19	4.2	2.9	13	48	6.6	165	6.0	13	2.2	7.0	8.0	3.6
20	3.8	2.4	11	16	19	264	5.4	11	2.1	5.7	5.9	41
21	3.7	2.1	9.5	13	8.4	130	5.1	9.4	2.0	4.9	4.7	12
22	3.3	2.0	8.8	18	7.6	80	13	8.2	1.9	27	3.9	5.9
23	3.2	2.0	15	91	7.1	57	5.1	7.0	1.8	19	3.5	4.5
24	26	10	9.2	273	6.4	43	80	6.2	1.8	8.2	3.2	3.8
25	7.3	3.2	7.8	104	6.4	34	19	5.7	57	6.2	3.0	5.7
26	4.7	2.7	7.5	54	14	72	12	7.8	5.5	5.2	2.7	252
27	4.1	15	6.6	33	7.0	36	9.5	5.3	18	5.1	2.4	208
28	3.6	5.3	6.1	23	6.4	29	33	5.3	6.4	4.2	2.3	58
29	3.3	342	5.5	18	---	27	11	4.7	4.4	3.7	2.2	32
30	3.2	106	5.2	29	---	33	11	8.8	22	3.6	2.2	21
31	3.0	---	5.0	18	---	225	---	4.5	---	3.3	2.0	---
TOTAL	297.7	538.3	568.0	823.3	363.7	2144.3	668.1	634.2	231.3	581.1	271.1	736.5
MEAN	9.603	17.94	18.32	26.56	12.99	69.17	22.27	20.46	7.710	18.75	8.745	24.55
MAX	70	342	88	273	46	492	105	130	57	160	101	252
MIN	1.4	2.0	5.0	3.9	6.4	5.0	5.1	4.5	1.8	3.3	1.9	1.6
CFSM	0.81	1.52	1.55	2.25	1.10	5.86	1.89	1.73	0.65	1.59	0.74	2.08
IN.	0.94	1.70	1.79	2.60	1.15	6.76	2.11	2.00	0.73	1.83	0.85	2.32

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

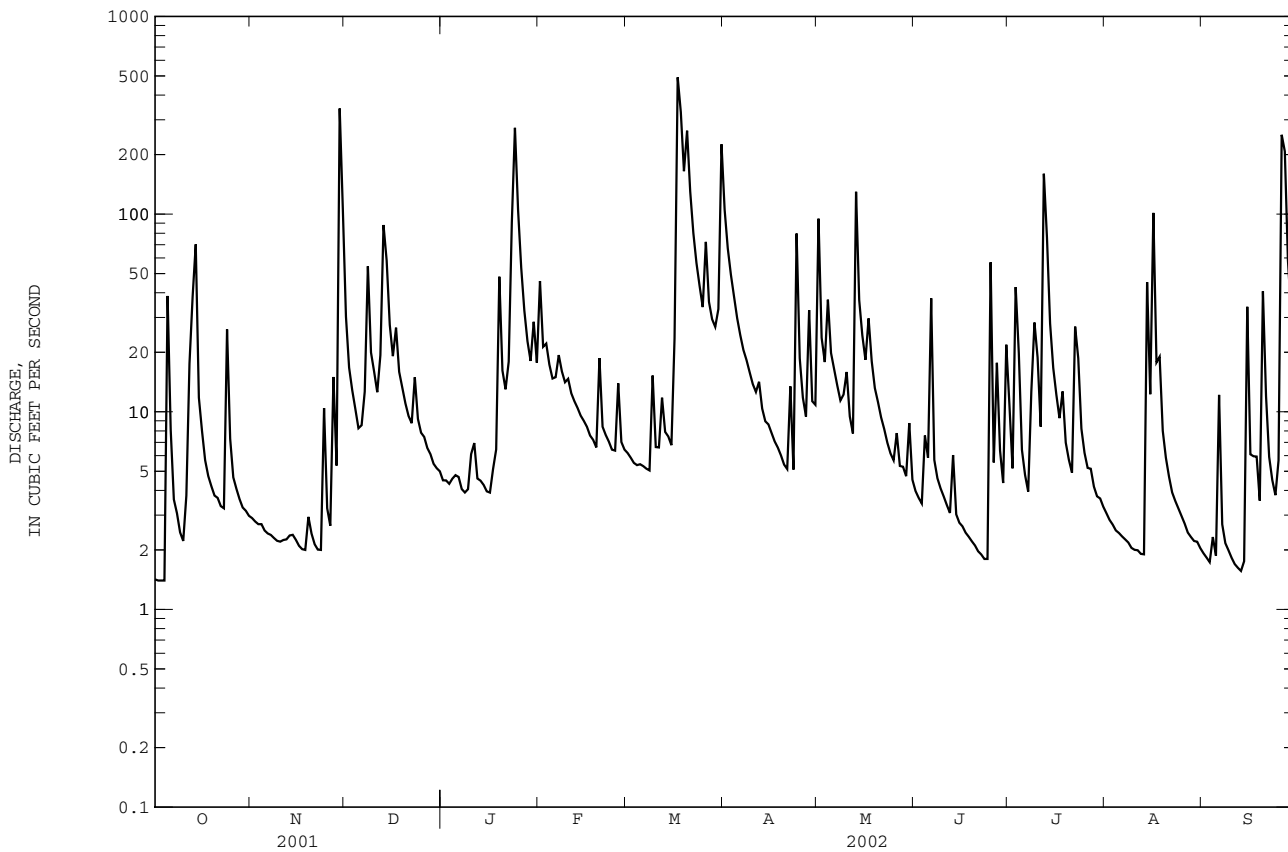
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.143	12.95	20.82	26.53	25.70	37.65	23.11	19.06	14.14	7.292	6.378	6.332
MAX	24.5	34.8	63.8	86.5	59.1	102	50.3	39.2	61.0	19.8	23.2	24.5
(WY)	1996	1974	1973	1974	2001	1975	1973	2000	1998	1967	1971	2002
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

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1964 - 2002

ANNUAL TOTAL	5396.1		7857.6		17.03	
ANNUAL MEAN	14.78		21.53		3.80	
HIGHEST ANNUAL MEAN					29.6 1973	
LOWEST ANNUAL MEAN					3.80 1993	
HIGHEST DAILY MEAN	379	Feb 16	492	Mar 17	696	Mar 12 1975
LOWEST DAILY MEAN	1.4	Jul 16	1.4	Oct 1	0.29	Sep 5 1973
ANNUAL SEVEN-DAY MINIMUM	1.5	Jul 15	1.8	Sep 8	0.36	Sep 2 1973
MAXIMUM PEAK FLOW			2160		2210	
MAXIMUM PEAK STAGE			8.09		8.20	
INSTANTANEOUS LOW FLOW			a1.4		0.15	
ANNUAL RUNOFF (CFSM)	1.25		1.82		1.44	
ANNUAL RUNOFF (INCHES)	17.01		24.77		19.61	
10 PERCENT EXCEEDS	29		43		38	
50 PERCENT EXCEEDS	5.7		7.0		6.4	
90 PERCENT EXCEEDS	2.0		2.2		1.3	

a Also occurred Oct. 2, 3, 4, 5.



CUMBERLAND RIVER BASIN

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 daily discharge, 100,000 ft³/s, March 18, maximum gage height, 35.60 ft, March 18, minimum daily discharge, 5,300 ft³/s, Nov. 11; minimum gage height, 16.50 ft, Oct. 1.

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	8020	8300	24300	9300	53500	23000	79200	e28900	e15700	e9350	e13600	8420
2	7130	6690	20200	11500	41900	24900	83200	e33200	e11700	e9040	e11100	7810
3	8570	5660	16800	11700	39100	14900	75100	e35000	e9600	10600	e9370	7010
4	9870	5420	14200	11700	36900	7970	65200	e28400	e7200	11200	e8210	e9730
5	10600	6620	13600	7400	34600	12300	53400	e35700	e7520	12500	e11100	e11400
6	10100	6910	10600	7200	32900	11700	52900	e32100	e8870	11600	e10600	10300
7	8820	7070	8730	7840	33000	10600	54300	e27800	e11500	7060	e9870	8240
8	8990	7110	8820	8500	37600	13100	46300	e37100	e6220	7620	e11600	8380
9	8980	6760	11600	8680	32500	e13200	43200	e34400	e6220	6780	e11700	8350
10	7810	5610	20200	10000	25600	9090	43800	e33800	e11900	10200	e10400	7740
11	8750	5300	17200	10400	22700	7280	43200	e34300	e9120	16300	e8370	7290
12	10000	6730	16100	8730	27900	7080	44400	e33300	e9100	14700	e8510	9690
13	7790	6640	20100	7640	23400	8850	43000	e35000	e9070	12400	8340	8680
14	8570	6540	31800	6900	22400	10300	e31600	e50800	e13700	15800	8660	9560
15	18400	7590	28600	6390	23600	e12700	e26500	e41400	10600	e8880	10800	8950
16	15000	8400	18100	8070	27200	e13200	e18500	e41000	8760	e10900	12100	5970
17	9050	5730	16300	9830	22500	e40700	e17600	e41000	9260	e11900	18000	7400
18	8950	5310	12900	9280	18600	e100000	e15600	e49100	9180	e11800	11800	9310
19	10700	6170	13100	11600	17300	e98400	e17500	e47600	7940	e11300	7690	9920
20	7510	6640	11500	12600	18600	e86000	e17200	e36900	8330	e10300	7990	10800
21	6430	6160	10200	e12000	21700	e81700	e15300	e32000	8730	e7900	9630	10100
22	7120	7870	9580	e16000	20300	e81700	e14600	e31600	e8160	e9000	10000	9440
23	8340	6120	7890	23900	19900	e78700	e8420	e30400	e7020	8950	10000	9240
24	8570	5910	7900	76200	20100	e70400	e7880	e30300	e8500	10900	9500	9050
25	8380	7130	12200	94400	16900	e66500	e27600	e26200	9140	12900	9650	7470
26	8240	10500	14100	90200	12900	e60900	e23100	e18900	10200	13600	8990	12600
27	7330	9660	13000	76200	19200	e66100	e18200	e18800	10000	e12400	9680	33700
28	6210	10900	12600	64300	22600	e60500	e10300	e15000	10100	e7100	9040	27800
29	5650	17400	8730	52000	---	e51900	e16700	e16000	8200	e9730	10100	22700
30	7470	27400	7940	46500	---	e52800	e16600	e15500	6070	e8780	12700	13100
31	8000	---	8650	40400	---	58500	---	e15000	---	9030	10100	---
TOTAL	275350	240250	447540	777360	745400	1254970	1030400	986500	277610	330520	319200	330150
MEAN	8882	8008	14440	25080	26620	40480	34350	31820	9254	10660	10300	11000
MAX	18400	27400	31800	94400	53500	100000	83200	50800	15700	16300	18000	33700
MIN	5650	5300	7890	6390	12900	7080	7880	15000	6070	6780	7690	5970

e Estimated

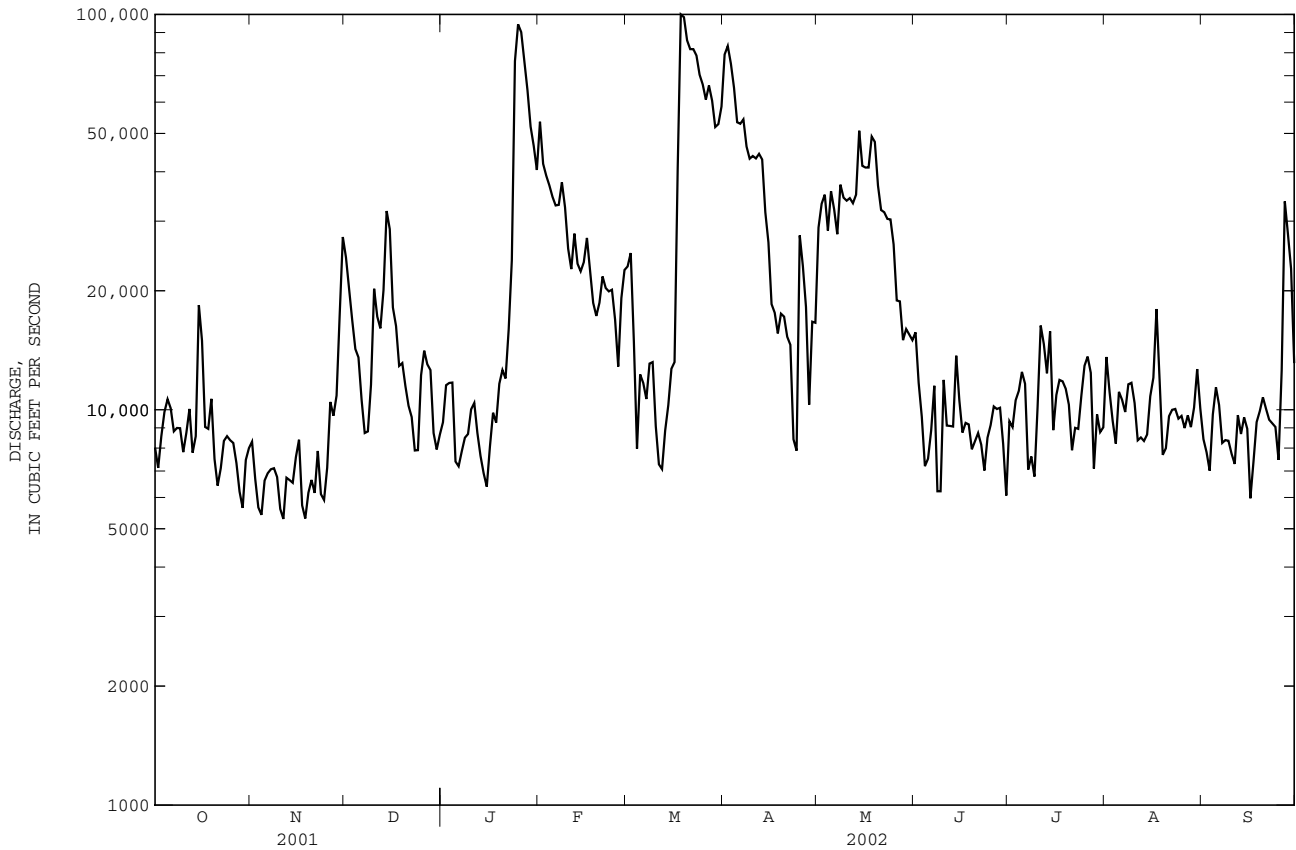
034315005 CUMBERLAND RIVER AT WOODLAND STREET AT NASHVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	9905	11870	19430	28650	30180	37200	32680	22080	21310	16160	16160	14790
MAX	18380	22670	40930	43570	71760	82050	92860	47660	50810	35380	38630	53310
(WY)	1993	1996	1997	1994	1994	1994	1994	1998	1997	2002	2002	2002
MIN	6062	6813	7084	6978	10950	13280	10680	6530	8523	10440	10490	8176
(WY)	2001	2000	2000	2000	2000	2000	1995	2001	2001	2000	1993	1993

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		*WATER YEARS 1992 - 2002	
ANNUAL TOTAL	4615570		7015250			
ANNUAL MEAN	12650		19220		21740	
HIGHEST ANNUAL MEAN					34940	
LOWEST ANNUAL MEAN					11150	
HIGHEST DAILY MEAN	89200	Feb 17	100000	Mar 18	122000	Mar 3 1997
LOWEST DAILY MEAN	3220	May 20	5300	Nov 11	3220	May 20 2001
ANNUAL SEVEN-DAY MINIMUM	5770	May 15	6290	Nov 17	5020	Dec 27 1999
MAXIMUM PEAK FLOW					134000	Mar 4 1997
MAXIMUM PEAK STAGE			35.60	Mar 18	39.26	Mar 4 1997
10 PERCENT EXCEEDS	20200		43200		49200	
50 PERCENT EXCEEDS	10400		11100		13800	
90 PERCENT EXCEEDS	6170		7130		6860	

* Period of daily discharge only.



CUMBERLAND RIVER BASIN

03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN

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 are excellent, specific conductance and pH are good, 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, 15.9 mg/L, Feb. 12, 2001; minimum, 3.6 mg/L, Oct. 26, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 293 microsiemens, Jan. 9; minimum, 186 microsiemens, Apr. 15.

pH: Maximum, 8.8 units, Mar. 14; minimum, 7.4 units, several days throughout the year.

WATER TEMPERATURE: Maximum, 27.4°C, Aug. 9; minimum, 5.7°C, Jan. 8.

DISSOLVED OXYGEN: Maximum, 15.3 mg/L, Mar. 15; minimum, 4.2 mg/L, July 8, 10.

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	212	208	210	237	225	232	265	250	256	279	269	274
2	217	208	211	240	229	234	255	249	251	---	264	268
3	244	211	222	238	227	231	258	254	255	280	268	271
4	229	209	220	245	230	239	260	252	255	279	268	274
5	227	204	213	235	228	230	259	252	255	279	271	275
6	226	204	215	244	229	233	260	254	257	284	269	276
7	215	209	212	246	234	238	267	254	262	272	269	270
8	218	209	212	249	234	238	282	255	265	278	267	268
9	231	211	217	251	235	240	285	256	267	293	267	278
10	228	212	220	246	235	239	266	243	252	267	259	265
11	221	212	214	249	236	245	259	242	249	273	253	263
12	228	213	220	244	231	237	261	252	257	256	251	253
13	238	214	221	247	232	236	267	257	262	255	248	251
14	235	221	226	253	238	244	268	255	262	248	244	246
15	237	217	226	253	237	243	260	250	255	254	241	245
16	233	214	221	246	235	241	263	251	257	253	235	241
17	240	219	232	244	235	239	265	246	256	245	232	238
18	248	231	240	250	235	241	266	255	262	236	230	232
19	244	222	235	244	228	234	274	257	267	245	227	233
20	233	226	230	253	229	235	269	261	266	255	224	234
21	238	219	226	253	230	240	274	259	267	227	219	222
22	238	216	223	253	236	245	275	263	268	258	227	242
23	241	217	229	249	237	243	280	268	275	249	228	240
24	243	218	234	249	231	239	275	261	268	239	217	226
25	239	213	224	251	231	242	273	259	268	256	239	251
26	239	223	232	234	230	231	268	254	261	253	228	238
27	233	224	230	248	230	237	266	257	262	253	239	248
28	240	224	233	255	235	242	270	259	265	253	242	247
29	239	223	229	260	236	248	275	261	268	254	244	247
30	240	221	226	257	239	245	279	267	270	252	239	243
31	240	223	231	---	---	---	281	270	276	240	223	235
MONTH	248	204	224	260	225	239	285	242	262	293	217	251

03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN--Continued

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	229	222	224	224	220	222	214	210	211	228	199	213
2	230	222	228	223	222	223	214	206	211	230	211	218
3	222	216	218	227	223	225	213	206	209	234	219	228
4	222	216	219	236	227	229	217	213	215	236	224	231
5	222	217	221	254	229	237	216	204	211	237	224	230
6	224	204	215	246	232	238	209	193	200	237	217	223
7	230	210	220	236	222	230	202	193	196	237	222	229
8	233	215	225	232	220	225	205	195	198	236	218	228
9	234	220	225	224	215	218	209	195	200	231	215	221
10	226	220	222	222	218	219	205	194	197	232	221	227
11	249	221	230	225	221	223	203	190	194	225	212	218
12	236	223	228	235	225	227	201	188	192	224	211	215
13	243	224	229	235	225	227	198	187	191	223	203	212
14	243	228	234	228	224	226	194	187	190	218	205	211
15	243	229	234	228	224	226	188	186	187	221	200	211
16	242	228	232	234	224	229	205	188	193	221	200	212
17	239	230	233	250	215	230	205	189	193	218	201	211
18	237	228	230	228	214	221	200	189	194	219	209	215
19	249	229	234	232	221	226	203	193	196	214	202	208
20	242	232	236	237	221	230	200	191	194	213	200	207
21	240	232	234	242	237	241	196	193	195	216	201	206
22	245	231	236	240	209	229	195	192	193	215	202	205
23	245	232	235	209	201	203	208	193	196	220	204	214
24	232	228	231	209	201	206	210	194	205	220	207	213
25	237	228	229	213	209	212	220	191	207	220	206	210
26	244	229	236	217	204	212	210	191	198	220	206	211
27	229	222	226	210	203	206	222	203	210	208	204	206
28	239	222	231	210	200	208	217	200	207	212	201	205
29	---	---	---	214	205	210	230	212	217	214	199	203
30	---	---	---	215	205	208	221	206	211	216	199	204
31	---	---	---	219	211	215	---	---	---	206	199	202
MONTH	249	204	228	254	200	222	230	186	200	237	199	214
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	210	200	204	219	210	213	207	201	204	201	196	198
2	207	203	204	219	212	216	221	197	204	204	197	201
3	215	205	209	---	---	---	215	196	202	199	195	197
4	222	208	213	---	---	---	206	197	202	201	197	199
5	221	212	216	---	---	---	204	197	200	228	197	203
6	222	214	219	---	---	---	212	198	201	214	198	202
7	227	218	223	---	---	---	215	202	207	214	199	204
8	226	221	224	212	210	211	209	198	204	204	195	200
9	223	219	221	223	210	213	205	194	199	201	194	198
10	225	218	222	216	---	---	206	194	199	201	194	197
11	242	217	224	---	---	---	203	197	199	202	196	200
12	226	215	221	---	---	---	204	194	198	199	190	196
13	227	214	218	---	---	---	204	196	199	201	195	197
14	222	214	218	---	---	---	204	197	201	202	193	196
15	220	215	218	---	---	---	206	192	199	202	196	198
16	222	216	219	---	---	---	204	195	199	205	197	200
17	222	216	218	---	---	---	201	198	199	205	198	201
18	227	215	218	215	208	210	202	200	201	205	197	202
19	225	215	217	219	206	211	206	202	204	205	193	199
20	222	216	218	209	205	207	207	202	205	201	192	197
21	231	216	219	207	197	204	207	202	204	206	194	201
22	222	216	219	210	206	208	205	198	202	206	195	201
23	216	215	216	212	206	208	206	196	201	201	195	198
24	217	212	214	211	205	208	207	197	203	229	195	203
25	216	---	---	214	203	210	204	195	200	219	197	203
26	---	---	---	221	205	211	203	195	199	220	200	207
27	---	---	---	208	199	202	204	196	200	221	200	208
28	---	---	---	206	198	202	204	197	200	220	200	213
29	---	---	---	206	198	204	203	195	198	219	196	210
30	---	---	---	208	200	204	202	196	199	220	212	215
31	---	---	---	208	199	204	199	196	198	---	---	---
MONTH	242	200	217	223	197	208	221	192	201	229	190	201

CUMBERLAND RIVER BASIN

03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN--Continued

PH, WH, FIELD, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN--Continued

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.4	19.7	20.0	16.0	15.7	15.9	14.1	13.6	13.8	8.1	7.6	7.8
2	20.1	19.6	19.9	16.4	15.9	16.2	13.8	13.5	13.7	7.4	7.1	7.2
3	20.0	19.3	19.8	16.7	16.3	16.5	13.6	13.4	13.5	7.1	6.4	6.9
4	20.0	19.3	19.6	16.9	16.4	16.6	13.7	13.5	13.6	6.6	6.3	6.5
5	20.0	19.6	19.8	16.4	15.7	16.1	13.8	13.5	13.7	6.6	6.2	6.4
6	20.0	19.3	19.6	15.9	15.4	15.7	13.9	13.6	13.8	6.7	6.2	6.4
7	19.3	18.6	19.0	15.7	15.5	15.6	14.1	13.7	13.9	6.2	6.0	6.1
8	18.7	18.2	18.5	15.8	15.4	15.6	14.2	13.9	14.0	6.0	5.7	5.9
9	18.7	18.4	18.5	15.8	15.6	15.7	14.2	13.2	13.7	6.2	6.0	6.1
10	19.1	18.3	18.7	15.8	15.4	15.6	13.2	12.7	12.8	6.4	6.1	6.3
11	19.0	18.7	18.8	15.7	15.2	15.4	12.8	12.6	12.7	7.1	6.4	6.7
12	18.9	18.7	18.8	15.4	15.0	15.2	12.9	12.8	12.8	7.0	6.6	6.8
13	19.0	18.7	18.9	15.2	14.9	15.0	13.3	12.9	13.1	6.9	6.6	6.8
14	19.3	18.9	19.1	15.2	14.8	15.0	13.3	13.0	13.1	7.2	6.9	7.0
15	19.1	18.6	18.8	15.1	14.9	15.0	13.0	12.8	12.9	7.2	7.0	7.1
16	18.6	18.1	18.3	15.1	14.9	15.0	13.1	12.9	13.0	7.4	7.1	7.2
17	18.1	17.5	17.8	15.1	14.9	15.0	13.5	13.1	13.3	7.5	7.3	7.4
18	17.5	17.1	17.3	15.4	14.9	15.1	13.3	13.1	13.2	7.6	7.4	7.5
19	17.4	17.0	17.2	15.2	14.8	14.9	13.1	12.4	12.8	7.5	7.2	7.4
20	17.7	17.0	17.3	14.8	14.4	14.5	12.4	12.0	12.3	7.4	7.1	7.2
21	17.6	17.2	17.4	14.4	14.0	14.2	12.1	11.8	12.0	7.6	7.4	7.5
22	17.7	17.5	17.6	14.0	13.6	13.8	11.9	11.5	11.7	7.7	7.4	7.5
23	18.0	17.6	17.8	13.9	13.6	13.7	11.9	11.5	11.8	8.4	7.5	8.0
24	18.6	17.9	18.2	14.1	13.9	14.0	11.6	11.0	11.3	9.3	8.2	8.8
25	18.5	17.9	18.3	14.5	14.0	14.2	11.0	10.2	10.6	8.2	7.5	7.8
26	17.9	17.0	17.5	14.2	14.0	14.1	10.2	9.7	10.0	9.3	8.2	8.9
27	17.0	16.2	16.6	14.6	14.1	14.4	9.7	9.4	9.6	9.2	8.9	9.0
28	16.2	15.7	16.0	14.5	14.3	14.4	9.5	9.0	9.3	9.6	9.1	9.3
29	16.0	15.5	15.7	14.6	14.3	14.4	9.2	9.0	9.1	10.0	9.6	9.8
30	15.7	15.4	15.6	14.6	14.0	14.2	9.0	8.5	8.6	10.5	10.0	10.3
31	16.0	15.4	15.8	---	---	---	8.5	8.1	8.2	11.3	10.5	10.8
MONTH	20.4	15.4	18.1	16.9	13.6	15.0	14.2	8.1	12.2	11.3	5.7	7.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.4	11.0	11.3	8.6	8.1	8.4	11.3	10.9	11.1	18.4	17.9	18.1
2	11.0	10.6	10.7	8.6	8.4	8.5	11.8	11.2	11.5	18.1	17.6	17.8
3	10.7	10.2	10.4	8.6	8.1	8.4	12.0	11.7	11.8	17.9	17.4	17.6
4	10.2	9.7	10	8.2	7.9	8.1	11.8	11.4	11.6	17.5	17.1	17.3
5	9.7	9.2	9.4	8.3	7.6	7.9	11.7	11.3	11.6	17.8	17.0	17.4
6	9.2	8.8	9.0	8.6	7.9	8.2	11.9	11.4	11.7	17.7	17.4	17.5
7	8.8	8.4	8.6	8.9	8.3	8.6	12.0	11.7	11.8	18.1	17.4	17.8
8	8.6	8.3	8.4	9.4	8.7	9.1	12.2	11.9	12.1	18.6	17.8	18.1
9	8.9	8.4	8.6	9.5	9.2	9.4	12.4	12.2	12.3	18.2	17.9	18.1
10	9.1	8.8	8.9	9.6	9.3	9.5	12.8	12.1	12.4	18.0	17.6	17.9
11	9.1	8.9	9.0	9.8	9.3	9.6	13.1	12.5	12.8	18.1	17.5	17.8
12	9.0	8.7	8.9	10.0	9.5	9.7	13.7	13.1	13.3	18.1	17.7	17.9
13	9.0	8.7	8.8	10.3	10.0	10.1	14.0	13.6	13.8	17.9	17.5	17.8
14	8.8	8.5	8.7	10.6	10.1	10.4	14.5	14.0	14.2	17.5	17.0	17.2
15	8.8	8.7	8.8	11.3	10.5	10.9	15.0	14.4	14.7	17.0	16.7	16.9
16	9.1	8.7	8.9	11.5	11.2	11.3	15.9	15.0	15.5	17.3	17.0	17.0
17	9.1	8.8	8.9	12.2	11.1	11.3	16.4	15.8	16.1	17.3	17.1	17.2
18	9.0	8.7	8.9	12.2	11.6	11.7	16.6	16.2	16.3	17.1	16.5	16.8
19	9.1	9.0	9.0	12.0	11.5	11.7	17.2	16.3	16.6	16.5	15.9	16.1
20	9.8	9.1	9.5	12.2	12.0	12.1	17.5	16.5	17.0	16.1	15.6	15.8
21	10.0	9.5	9.7	12.1	11.9	12.0	17.8	17.3	17.5	16.3	15.8	16.0
22	9.7	9.5	9.6	11.9	11.1	11.5	18.2	17.5	17.8	16.4	15.9	16.1
23	9.7	9.4	9.6	11.3	10.9	11.1	17.6	16.7	17.1	16.9	16.3	16.6
24	9.9	9.5	9.7	11.3	11.0	11.2	17.6	17.1	17.3	17.0	16.7	16.9
25	10.0	9.7	9.9	11.2	10.8	11.1	18.0	17.2	17.5	17.4	16.8	17.1
26	9.9	9.3	9.7	11.3	11.0	11.2	18.0	17.3	17.7	17.8	17.4	17.6
27	9.3	8.5	8.8	11.0	10.5	10.7	17.5	16.8	17.2	18.3	17.5	17.9
28	8.6	8.3	8.4	10.9	10.3	10.6	18.1	17.4	17.8	18.7	18.2	18.4
29	---	---	---	11.5	10.8	11.1	18.5	17.9	18.1	19.1	18.6	18.9
30	---	---	---	11.5	11.3	11.4	18.1	17.7	17.9	19.8	19.1	19.4
31	---	---	---	11.3	11.1	11.2	---	---	---	20.3	19.1	19.6
MONTH	11.4	8.3	9.3	12.2	7.6	10.3	18.5	10.9	14.8	20.3	15.6	17.5

CUMBERLAND RIVER BASIN

03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN--Continued

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	20.7	19.6	20.1	26.9	26.4	26.6	26.4	25.6	25.9	26.6	25.9	26.1
2	20.8	19.8	20.3	27.1	26.6	26.8	26.9	25.6	26.1	26.3	25.6	25.8
3	21.3	20.4	20.8	---	---	---	27.1	26.1	26.8	26.6	25.6	25.8
4	21.7	20.9	21.2	---	---	---	26.8	26.0	26.4	26.3	25.5	25.8
5	22.1	21.2	21.6	---	---	---	27.2	26.4	26.7	25.6	24.5	25.1
6	21.9	21.5	21.7	---	---	---	26.6	25.8	26.3	24.9	24.2	24.5
7	21.8	21.0	21.6	---	---	---	25.9	25.0	25.5	25.1	24.6	24.9
8	22.7	20.9	21.6	26.9	26.9	27.2	26.7	25.2	25.9	25.8	24.8	25.2
9	23.3	22.7	22.9	27.3	26.7	27.0	27.4	26.3	26.6	25.3	24.8	24.9
10	24.2	23.1	23.5	26.9	26.5	26.8	26.8	26.4	26.6	25.4	24.7	24.9
11	23.7	22.9	23.4	26.5	26.2	26.3	26.6	26.3	26.4	25.2	24.5	24.7
12	24.4	23.0	23.8	26.8	26.5	26.7	27.2	26.4	26.7	24.9	24.0	24.5
13	24.6	23.8	24.1	---	---	---	26.4	26.0	26.1	24.9	23.9	24.4
14	24.0	23.6	23.9	---	---	---	26.6	26.0	26.2	25.0	24.7	24.9
15	24.0	22.9	23.4	---	---	---	26.3	26.0	26.2	25.4	24.9	25.1
16	23.7	23.2	23.5	---	---	---	26.2	25.7	25.9	25.2	24.9	25.1
17	24.3	23.0	23.6	---	---	---	26.1	25.4	25.8	25.0	24.5	24.8
18	25.0	24.2	24.6	26.7	26.1	26.4	26.3	25.9	26.1	24.5	24.2	24.4
19	25.2	24.9	25.1	26.1	25.8	26.0	26.1	25.6	25.9	24.8	24.2	24.4
20	25.6	25.1	25.4	26.5	25.8	26.1	26.6	25.9	26.1	24.9	24.6	24.8
21	26.0	25.2	25.5	26.9	26.1	26.3	26.9	25.8	26.1	24.8	24.4	24.6
22	25.9	25.1	25.4	26.7	26.2	26.4	26.9	25.8	26.2	24.6	23.7	24.2
23	25.7	25.0	25.2	26.9	26.4	26.6	26.3	25.9	26.1	23.8	23.0	23.6
24	25.6	24.8	25.2	26.9	26.0	26.4	26.2	25.7	25.9	23.0	22.6	22.8
25	25.6	25.2	25.4	27.1	26.2	26.7	26.0	25.4	25.7	22.6	22.2	22.5
26	25.8	25.3	25.5	27.3	26.5	26.8	25.7	25.1	25.3	22.2	20.9	21.9
27	25.9	25.5	25.7	26.9	26.4	26.7	25.6	25.1	25.3	21.5	20.9	21.3
28	25.8	25.5	25.6	26.9	26.4	26.7	25.9	25.1	25.5	21.5	20.6	21.0
29	26.0	25.6	25.8	26.8	26.2	26.5	26.0	25.4	25.7	21.5	20.6	21.0
30	27.0	26.0	26.4	26.4	25.5	25.8	26.0	25.3	25.6	21.1	20.9	21.0
31	---	---	---	26.4	25.6	26.0	26.3	25.4	25.8	---	---	---
MONTH	27.0	19.6	23.7	27.3	25.5	26.5	27.4	25.0	26.0	26.6	20.6	24.1

OXYGEN DISSOLVED, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9.5	8.0	8.8	9.9	8.2	9.4	9.4	9.0	9.2	11.6	11.0	11.3
2	9.0	8.3	8.6	9.8	8.5	9.3	9.4	9.2	9.3	11.9	11.3	11.6
3	8.8	7.3	8.3	9.8	8.3	9.4	9.6	9.3	9.4	12.0	11.6	11.8
4	8.5	7.1	7.7	9.7	7.7	9.0	9.6	9.4	9.5	12.3	11.7	12.0
5	8.6	7.6	8.2	9.8	8.5	9.3	9.7	9.5	9.6	12.6	12.0	12.3
6	8.7	7.3	8.1	10.0	8.4	9.2	9.9	9.6	9.7	12.6	12.0	12.4
7	8.6	8.0	8.2	9.4	8.5	8.9	9.7	9.4	9.5	12.7	12.4	12.5
8	8.8	7.8	8.3	10.2	8.8	9.5	9.5	9.0	9.2	12.8	12.5	12.7
9	8.7	8.1	8.4	10.1	9.3	9.8	9.4	8.9	9.1	12.8	12.1	12.5
10	8.6	7.4	8.0	10.3	9.7	10.1	9.3	9.0	9.2	13.0	12.6	12.8
11	8.5	7.6	8.0	10.2	9.3	9.6	9.3	9.1	9.2	12.8	12.5	12.6
12	---	7.0	---	10.8	9.3	10.1	9.2	9.0	9.1	13.0	12.5	12.7
13	---	---	---	10.8	9.5	10.3	9.1	9.0	9.1	13.1	12.4	12.8
14	---	---	---	10.1	9.2	9.6	9.3	9.1	9.2	13.2	12.6	12.9
15	---	---	---	10.3	9.4	9.9	9.6	9.3	9.5	13.5	13.0	13.2
16	---	---	---	10.2	9.5	9.9	9.6	9.5	9.5	13.9	13.1	13.5
17	---	---	---	10.1	9.2	9.7	9.5	8.8	9.1	13.6	13.1	13.3
18	---	6.7	---	10.6	9.6	10.0	9.0	8.8	8.9	13.9	13.2	13.5
19	8.9	6.8	7.5	10.0	9.7	9.9	9.0	8.8	8.9	13.7	13.1	13.4
20	9.4	8.0	8.7	10.2	9.1	9.7	9.1	8.8	9.0	13.7	13.1	13.3
21	10.6	8.7	9.7	11.4	9.1	9.9	9.5	9.0	9.3	14.1	13.5	13.8
22	10.4	8.6	9.8	9.9	9.1	9.4	9.7	9.3	9.5	14.4	13.4	13.9
23	9.9	7.6	8.8	9.8	9.3	9.6	9.8	9.3	9.5	13.9	12.9	13.3
24	10.0	7.4	8.2	10.3	9.2	9.6	9.8	9.6	9.7	13.9	12.6	13.1
25	10.0	8.4	9.7	10.1	9.2	9.7	10.1	9.6	9.8	14.2	13.3	14.0
26	9.7	8.4	9.1	9.9	9.4	9.6	10.1	9.7	9.9	13.3	12.5	12.7
27	9.7	8.4	9.0	9.7	9.0	9.4	10.5	10.0	10.3	12.8	12.2	12.6
28	9.5	7.7	8.8	9.1	8.7	8.9	10.7	10.3	10.5	12.8	12.1	12.3
29	9.8	8.9	9.5	9.0	8.5	8.9	11.0	10.5	10.8	12.2	11.6	11.7
30	11.1	8.8	10.2	9.2	8.6	9.0	11.1	10.6	10.9	11.7	11.5	11.6
31	9.9	9.0	9.6	---	---	---	11.3	10.8	11.1	11.6	11.3	11.5
MONTH	11.1	6.7	8.7	11.4	7.7	9.6	11.3	8.8	9.6	14.4	11.0	12.7

CUMBERLAND RIVER BASIN

03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN--Continued

OXYGEN DISSOLVED, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	11.4	11.1	11.3	13.0	12.5	12.8	11.3	10.6	11.1	10.7	10.0	10.3
2	11.7	11.3	11.6	12.8	12.4	12.6	11.2	10.9	11.0	10.3	10.0	10.2
3	11.5	11.3	11.4	12.8	12.3	12.6	11.0	10.8	10.9	10.4	10.0	10.2
4	11.5	11.2	11.3	13.5	12.7	13.1	11.1	10.8	10.9	10.7	10.1	10.4
5	11.7	11.5	11.6	13.8	12.9	13.3	10.8	10.3	10.4	11.2	10.3	10.8
6	11.8	11.6	11.7	14.3	13.2	13.7	10.7	10.3	10.6	11.0	10.4	10.8
7	11.9	11.7	11.8	14.5	13.6	14.1	10.8	10.6	10.7	10.9	10.2	10.6
8	11.9	11.7	11.8	14.6	13.7	14.1	10.8	10.5	10.7	11.7	10.5	11.0
9	11.8	11.7	11.7	14.1	13.5	13.7	10.6	10.4	10.5	11.8	10.9	11.2
10	11.8	11.7	11.8	14.2	13.3	13.8	10.8	10.5	10.7	11.1	10.0	10.8
11	12.0	11.8	11.9	14.4	13.5	14.0	11.2	10.7	10.9	11.2	10.7	10.9
12	12.4	11.9	12.0	14.2	13.6	13.8	10.9	10.7	10.8	10.8	10.1	10.5
13	13.4	12.4	12.9	14.2	13.4	13.8	10.8	10.6	10.7	---	9.7	---
14	13.8	13.4	13.6	14.6	13.4	14.1	10.8	10.6	10.7	11.1	9.7	10.3
15	13.4	---	---	15.3	14.4	14.9	10.9	10.6	10.8	10.3	9.2	9.8
16	---	---	---	14.9	13.8	14.5	11.3	10.7	11.0	9.9	8.9	9.3
17	---	---	---	13.9	---	13.9	12.5	10.8	11.4	9.2	8.5	8.9
18	---	---	---	---	---	---	12.1	11.1	11.7	9.1	7.8	8.4
19	---	---	---	---	---	---	12.2	11.2	11.6	9.9	9.1	9.5
20	11.9	11.6	11.7	10.8	10.6	10.7	11.9	10.9	11.5	9.6	8.9	9.2
21	12.0	11.5	11.8	10.8	10.7	10.7	11.6	10.9	11.3	9.3	8.6	9.0
22	12.2	11.7	11.9	10.9	10.7	10.8	11.2	10.6	10.9	9.7	8.6	9.3
23	12.2	11.7	11.9	10.7	10.5	10.6	10.8	9.9	10.2	10.0	8.9	9.5
24	12.3	11.9	12.1	10.6	10.3	10.5	10.5	9.7	10.1	10.3	9.2	9.9
25	12.5	11.9	12.2	10.8	10.5	10.7	10.0	9.7	9.8	10.6	9.6	10.2
26	12.4	12.1	12.2	10.6	10.4	10.5	---	---	---	10.6	9.7	10.2
27	12.2	12.0	12.1	11.3	10.5	10.9	---	---	---	10.7	10.0	10.4
28	12.8	12.1	12.4	11.0	10.9	11.0	---	---	---	10.4	9.7	10.0
29	---	---	---	10.9	10.6	10.7	10.7	9.8	10.4	9.8	9.0	9.5
30	---	---	---	10.7	10.6	10.7	11.0	9.7	10.3	9.8	8.9	9.4
31	---	---	---	10.7	10.5	10.6	---	---	---	10.1	8.5	9.2
MONTH	13.8	11.1	11.9	15.3	10.3	12.5	12.5	9.7	10.8	11.8	7.8	10.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.4	9.2	9.7	7.3	6.5	6.9	---	---	---	---	---	---
2	9.7	8.8	9.3	7.6	5.8	6.9	---	---	---	---	---	---
3	9.3	8.6	8.9	---	---	---	---	---	---	---	---	---
4	9.1	8.3	8.7	---	---	---	---	---	---	---	---	---
5	8.9	8.2	8.5	---	---	---	---	---	---	---	---	---
6	8.2	7.4	7.8	---	---	---	---	---	---	---	---	---
7	7.4	7.0	7.2	---	---	---	---	---	---	---	---	---
8	7.6	6.9	7.2	5.5	4.2	5.2	---	---	---	---	---	---
9	7.9	7.3	7.6	5.1	4.5	4.7	---	---	---	---	---	---
10	8.2	7.3	7.7	4.6	4.2	4.4	---	---	---	---	---	---
11	7.6	6.7	7.1	6.6	6.2	6.4	---	---	---	---	---	---
12	7.1	6.4	6.9	6.9	6.5	6.6	---	---	---	---	---	---
13	6.8	6.2	6.6	---	---	---	---	---	---	---	---	---
14	6.7	6.1	6.4	---	---	---	---	---	---	---	---	---
15	6.8	5.9	6.3	---	---	---	---	---	---	---	---	---
16	6.6	6.1	6.3	---	---	---	---	---	---	---	---	---
17	7.1	5.8	6.6	---	---	---	---	---	---	---	---	---
18	7.6	5.6	7.1	---	---	---	---	---	---	---	---	---
19	7.9	7.0	7.7	---	---	---	---	---	---	---	---	---
20	8.0	6.7	7.6	---	---	---	---	---	---	---	---	---
21	8.1	6.8	7.5	---	---	---	---	---	---	---	---	---
22	7.1	6.7	6.9	---	---	---	---	---	---	---	---	---
23	7.5	6.6	7.0	---	---	---	---	---	---	---	---	---
24	7.0	6.4	6.6	---	---	---	---	---	---	---	---	---
25	7.3	7.0	7.1	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	10.4	5.6	7.5	7.6	4.2	5.9	---	---	---	---	---	---

CUMBERLAND RIVER BASIN

03431599 WHITES CREEK NEAR BORDEAUX, TN

LOCATION.--Lat 36°13'03", long 86°49'13", Davidson County, Hydrologic Unit 05130202, on right bank on downstream side of bridge on Buena Vista Pike, 0.4 mi downstream from Ewing Creek, 1.8 mi northeast of Bordeaux, 2.1 mi above Drakes Branch, and at mile 6.1.

DRAINAGE AREA.--51.3 mi².

PERIOD OF RECORD.--October 1964 to April 1975 (published as at Tucker Road, near Bordeaux), August 1993 to current year. Occasional low-flow measurements, water years 1962-64.

GAGE.--Data collection platform. Datum of gage is 402.87 ft above NGVD of 1929. Oct. 1964 to April 1975 at site 0.4 mi downstream at datum 1.23 ft lower, August 1993 to Sept. 1995 at datum 3.85 ft higher.

REMARKS.--No estimated daily discharges. Records good. Peak discharge of 12,200 ft³/s, Feb. 23, 1975, gage height 17.06 ft, occurred at Tucker Road near Bordeaux site. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 29	1145	6,920	15.44	Mar 20	0745	4,980	13.33
Nov 29	2200	4,220	12.41	Apr 17	2014	4,490	12.74
Dec 13	0300	4,480	12.73	Apr 24	1415	6,190	14.67
Jan 24	0630	8,660	17.15	May 1	0215	5,350	13.75
Mar 17	0545	3,670	11.71	Jul 12	1715	4,160	12.34
Mar 17	2100	*11,000	*19.18				

Minimum discharge, 0.51 ft³/s, Oct. 3, 4, 5.

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	0.66	6.6	284	27	281	21	442	1140	5.3	2.7	13	2.1
2	0.63	6.0	174	23	176	21	240	327	4.6	2.4	9.2	2.0
3	0.62	5.7	124	20	144	22	152	215	4.0	102	7.4	1.8
4	0.60	6.2	94	19	118	18	105	212	3.6	17	5.9	1.9
5	26	5.1	75	17	91	15	74	156	3.5	6.9	6.0	2.0
6	15	4.9	68	19	81	14	55	115	304	4.6	4.4	2.3
7	3.5	4.7	73	17	106	13	41	88	48	3.6	3.7	2.8
8	2.3	4.6	129	15	119	12	34	66	20	3.0	3.3	2.2
9	2.2	4.6	133	14	108	45	33	58	12	54	3.0	2.1
10	1.7	5.0	109	16	95	48	25	47	8.1	111	2.8	2.1
11	1.9	4.7	88	35	77	36	23	36	6.5	37	2.7	2.1
12	34	4.6	97	25	66	55	87	27	5.6	480	2.5	2.1
13	47	4.3	1290	22	56	68	199	498	8.1	151	2.3	1.9
14	424	4.3	513	19	48	58	284	175	5.6	57	2.5	1.9
15	78	4.3	262	17	41	57	131	95	4.7	27	10	7.6
16	39	4.2	180	15	38	109	80	61	4.1	16	86	9.4
17	22	4.4	212	15	33	3180	673	61	3.9	21	16	4.5
18	15	4.5	218	27	28	1430	516	57	3.5	20	7.9	3.9
19	12	5.0	164	163	26	694	218	36	3.5	14	6.5	3.7
20	11	6.2	123	134	43	1710	131	27	3.3	11	5.1	50
21	9.0	6.4	96	103	33	566	85	22	3.0	8.6	5.0	27
22	7.4	6.0	77	88	29	292	59	18	2.8	111	3.6	9.6
23	6.6	5.7	130	448	26	186	41	15	2.6	29	3.4	6.2
24	12	22	111	2700	24	127	1290	12	2.7	21	3.1	4.8
25	35	23	93	592	21	92	584	9.5	5.9	13	2.9	4.3
26	15	11	79	304	38	401	267	13	3.6	9.9	2.9	761
27	12	539	66	192	28	225	167	9.3	11	8.2	2.8	952
28	9.6	158	56	137	24	152	218	9.2	9.6	13	3.0	165
29	8.7	2780	46	106	---	112	133	8.0	3.8	12	2.4	75
30	8.1	869	34	125	---	96	103	8.5	3.1	42	2.2	43
31	7.4	---	29	115	---	905	---	6.3	---	24	2.2	---
TOTAL	867.91	4520.0	5227	5569	1998	10780	6490	3627.8	510.0	1432.9	233.7	2156.3
MEAN	28.00	150.7	168.6	179.6	71.36	347.7	216.3	117.0	17.00	46.22	7.539	71.88
MAX	424	2780	1290	2700	281	3180	1290	1140	304	480	86	952
MIN	0.60	4.2	29	14	21	12	23	6.3	2.6	2.4	2.2	1.8
CFSM	0.55	2.94	3.29	3.50	1.39	6.78	4.22	2.28	0.33	0.90	0.15	1.40
IN.	0.63	3.28	3.79	4.04	1.45	7.82	4.71	2.63	0.37	1.04	0.17	1.56

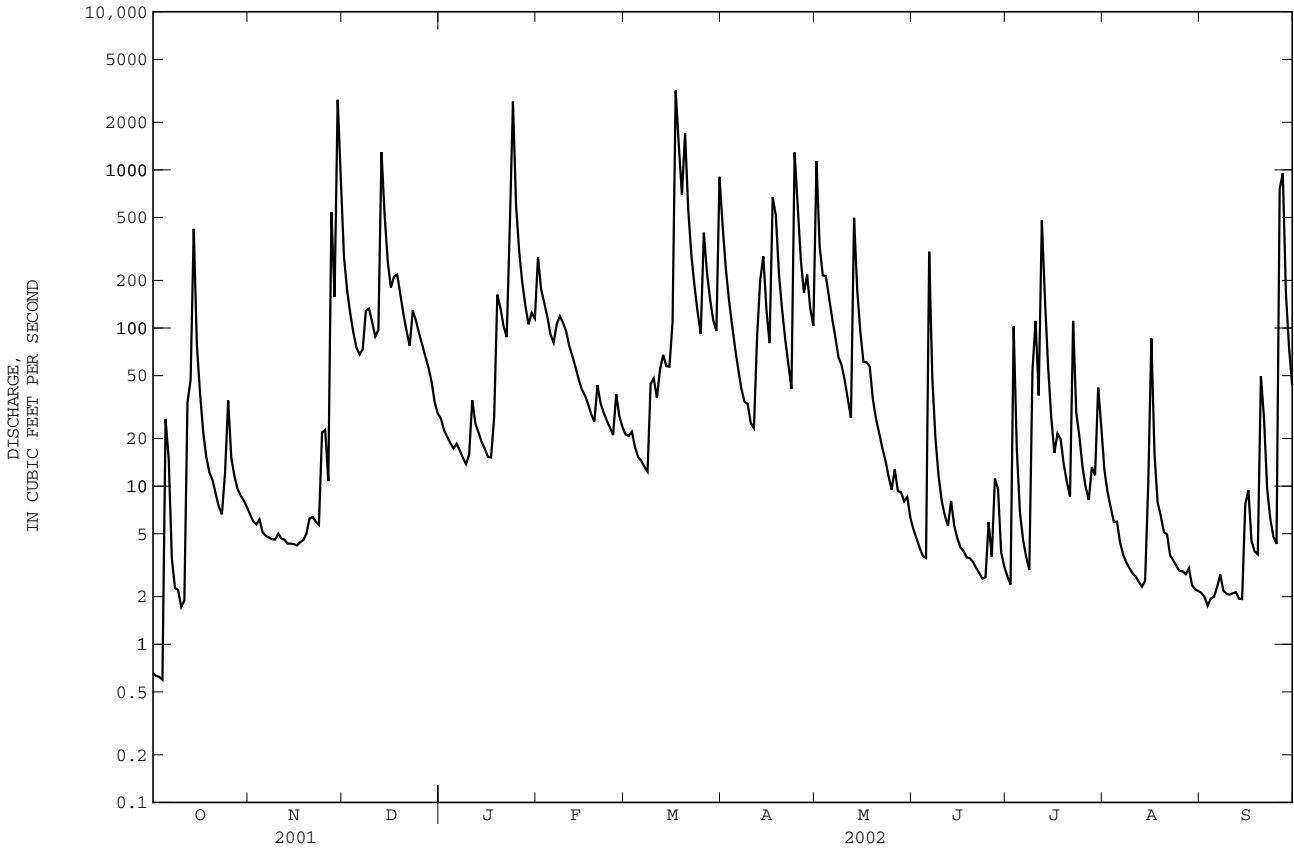
03431599 WHITES CREEK NEAR BORDEAUX, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

MEAN	14.98	57.84	106.8	133.7	148.1	190.5	129.8	87.49	49.11	16.71	15.54	19.57
MAX	67.1	151	286	288	369	530	286	277	264	48.3	87.2	122
(WY)	1996	2002	1973	1999	1975	1975	1994	1995	1998	1967	1972	1974
MIN	2.05	6.30	8.18	25.2	36.3	46.0	18.8	20.1	4.70	1.11	1.79	0.98
(WY)	1970	1999	1966	1966	1968	1966	1967	2001	1966	1966	1999	1999

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1965 - 2002	
ANNUAL TOTAL	24415.57		43412.61		77.80	
ANNUAL MEAN	66.89		118.9		35.2	
HIGHEST ANNUAL MEAN					129 1994	
LOWEST ANNUAL MEAN					35.2 1966	
HIGHEST DAILY MEAN	2780	Nov 29	3180	Mar 17	5100	Feb 23 1975
LOWEST DAILY MEAN	0.60	Oct 4	0.60	Oct 4	0.19	Sep 12 1999
ANNUAL SEVEN-DAY MINIMUM	0.68	Sep 28	2.0	Aug 30	0.30	Sep 7 1999
MAXIMUM PEAK FLOW			11000	Mar 17	12200	Feb 23 1975
MAXIMUM PEAK STAGE			19.18	Mar 17	19.18	Mar 17 2002
INSTANTANEOUS LOW FLOW			0.51	Oct 3	0.07	Sep 10 1999
ANNUAL RUNOFF (CFSM)	1.30		2.32		1.52	
ANNUAL RUNOFF (INCHES)	17.70		31.48		20.61	
10 PERCENT EXCEEDS	128		231		169	
50 PERCENT EXCEEDS	14		23		20	
90 PERCENT EXCEEDS	1.4		2.9		2.5	

- a From rating curve extended above 6,900 ft³/s on basis of contracted-opening measurement of peak flow, see REMARKS.
- b Current site and datum.
- c Also occurred Oct. 4, 5.



CUMBERLAND RIVER BASIN

03431700 RICHLAND CREEK AT CHARLOTTE AVENUE, AT NASHVILLE, TN

LOCATION.--Lat 36°09'04", long 86°51'16", Davidson County, Hydrologic Unit 05130202, near right bank on downstream end of pier of Charlotte Avenue bridge on U.S. Highway 70, 4.0 mi southwest of the State Capitol in Nashville, and at mile 3.7.

DRAINAGE AREA.--24.3 mi².

PERIOD OF RECORD.--July 1964 to September 1990, August 1993 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 409.56 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good, except below 5 ft³/s which are fair. Diversions above station used for irrigation of golf courses. Periodic observations of specific conductance and water temperature are published in this report as miscellaneous water quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 29	1100	2,110	7.28	Mar 17	2100	*5,100	*11.45
Jan 24	0530	1,750	6.61	Sep 27	0200	1,570	6.25

Minimum discharge, 0.98 ft³/s, Oct. 4.

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

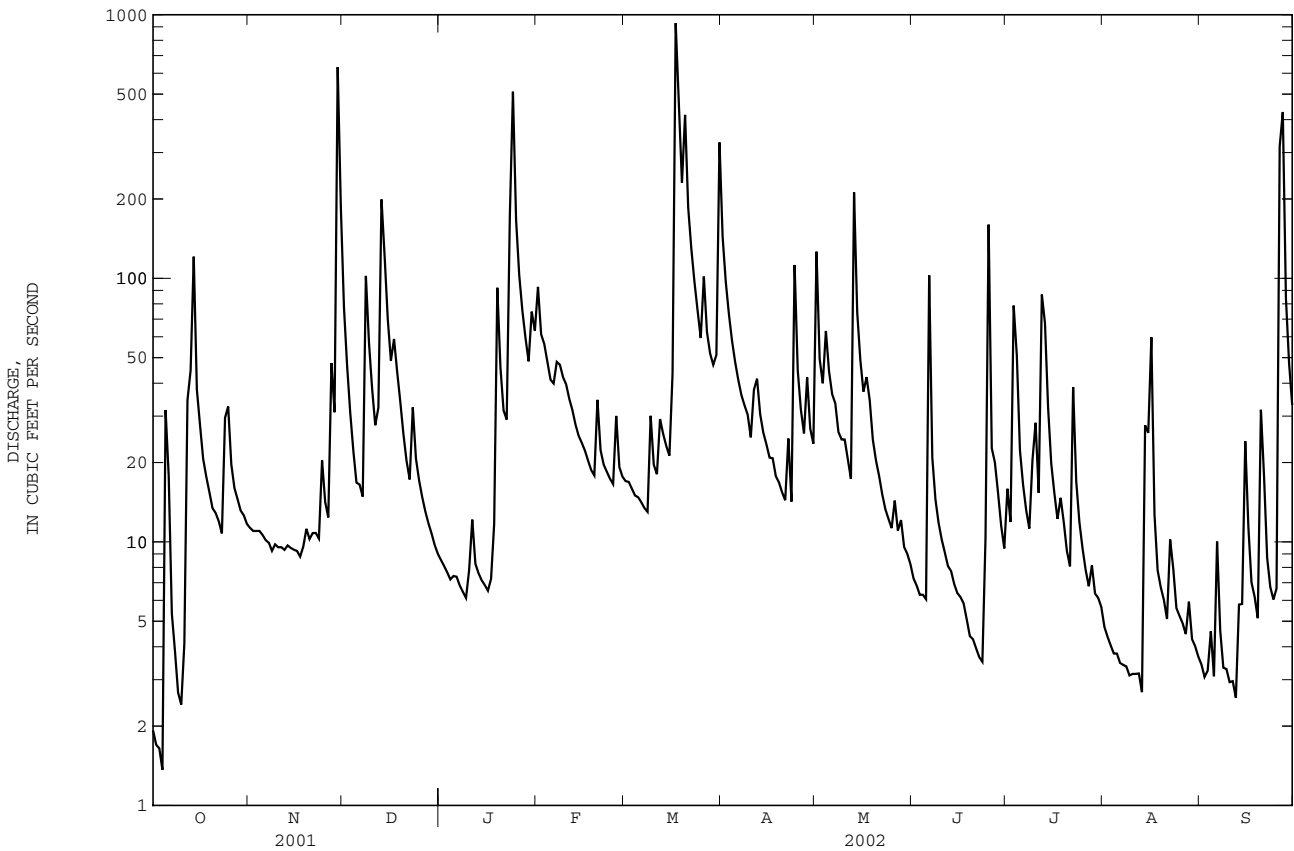
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	11	78	8.5	93	17	144	126	7.3	16	4.8	3.4
2	1.7	11	47	8.1	61	17	97	49	6.8	12	4.4	3.1
3	1.6	11	31	7.7	56	16	73	40	6.3	79	4.0	3.2
4	1.4	11	22	7.2	48	15	58	63	6.3	51	3.8	4.6
5	32	11	17	7.4	41	15	48	44	6.1	22	3.8	3.1
6	18	10	16	7.4	40	14	41	36	103	16	3.5	10
7	5.3	9.9	15	6.8	48	13	36	34	21	13	3.4	4.6
8	3.8	9.2	102	6.5	47	13	33	26	15	11	3.4	3.3
9	2.7	9.8	57	6.1	42	30	30	24	12	20	3.1	3.3
10	2.4	9.5	38	7.8	40	20	25	24	10	28	3.2	2.9
11	4.1	9.5	28	12	35	18	38	21	9.1	15	3.2	3.0
12	35	9.3	32	8.3	32	29	42	17	8.1	87	3.2	2.6
13	45	9.7	199	7.6	28	26	31	212	7.7	68	2.7	5.8
14	121	9.5	121	7.2	25	23	26	74	6.9	32	28	5.8
15	38	9.3	70	6.9	24	21	23	49	6.4	20	26	24
16	28	9.2	49	6.5	22	43	21	37	6.2	15	60	11
17	21	8.8	59	7.2	20	930	21	42	5.8	12	13	7.0
18	18	9.6	44	12	19	463	18	34	5.1	15	7.8	6.2
19	15	11	34	9.2	18	231	17	24	4.4	12	6.7	5.1
20	13	10	26	4.6	35	417	15	20	4.3	9.3	6.0	32
21	13	11	20	32	22	186	14	18	3.9	8.1	5.1	18
22	12	11	17	29	20	129	25	15	3.7	39	10	8.7
23	11	10	32	17.2	18	97	14	13	3.5	17	7.9	6.7
24	30	20	21	51.1	17	75	112	12	10	12	5.6	6.0
25	33	14	17	167	17	59	45	11	160	9.5	5.2	6.7
26	20	12	15	103	30	102	32	14	23	7.8	4.9	317
27	16	48	13	76	19	63	26	11	20	6.8	4.5	428
28	15	31	12	59	18	52	42	12	15	8.1	5.9	84
29	13	633	11	48	---	47	27	9.6	12	6.4	4.3	48
30	13	187	9.7	75	---	51	24	9.0	9.4	6.1	4.0	33
31	12	---	9.0	63	---	328	---	8.2	---	5.7	3.7	---
TOTAL	596.9	1176.3	1261.7	1614.2	935	3560	1198	1128.8	518.3	679.8	255.1	1100.1
MEAN	19.25	39.21	40.70	52.07	33.39	114.8	39.93	36.41	17.28	21.93	8.229	36.67
MAX	121	633	199	511	93	930	144	212	160	87	60	428
MIN	1.4	8.8	9.0	6.1	17	13	14	8.2	3.5	5.7	2.7	2.6
CFSM	0.79	1.61	1.67	2.14	1.37	4.73	1.64	1.50	0.71	0.90	0.34	1.51
IN.	0.91	1.80	1.93	2.47	1.43	5.45	1.83	1.73	0.79	1.04	0.39	1.68

03431700 RICHLAND CREEK AT CHARLOTTE AVENUE, AT NASHVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	11.24	31.90	53.82	51.74	55.71	64.32	43.63	37.18	21.83	11.33	7.943	12.73
MAX	53.0	89.8	247	151	205	208	146	131	107	42.0	24.6	127
(WY)	1976	1987	1965	1974	1989	1975	1979	1984	1998	1979	1994	1979
MIN	0.41	1.79	2.57	3.96	10.3	18.2	5.76	5.06	1.33	1.34	1.18	0.92
(WY)	1966	1972	1966	1986	1968	1966	1986	1977	1988	1966	1980	1980

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1964 - 2002	
ANNUAL TOTAL	9671.2		14024.2		33.56	
ANNUAL MEAN	26.50		38.42		71.3 1979	
HIGHEST ANNUAL MEAN					13.6 1966	
LOWEST ANNUAL MEAN						
HIGHEST DAILY MEAN	678	Feb 16	930	Mar 17	7020	Nov 2 1990
LOWEST DAILY MEAN	1.4	Jul 23	1.4	Oct 4	0.05	Oct 8 1980
ANNUAL SEVEN-DAY MINIMUM	1.6	Jul 17	3.2	Aug 7	0.23	Oct 8 1965
MAXIMUM PEAK FLOW			5100	Mar 17	9470	Sep 13 1979
MAXIMUM PEAK STAGE			11.45	Mar 17	15.13	Sep 13 1979
INSTANTANEOUS LOW FLOW			0.98	Oct 4	0.05	Oct 7 1980
ANNUAL RUNOFF (CFSM)	1.09		1.58		1.38	
ANNUAL RUNOFF (INCHES)	14.81		21.47		18.77	
10 PERCENT EXCEEDS	49		75		73	
50 PERCENT EXCEEDS	11		16		11	
90 PERCENT EXCEEDS	2.4		4.4		1.6	



CUMBERLAND RIVER BASIN

03432350 HARPETH RIVER AT FRANKLIN, TN

LOCATION.--Lat 35°55'14", long 86°51'56", Williamson County, Hydrologic Unit 05130204, on left bank 15 ft downstream from State Highway 96 bridge, 0.4 mi southeast of the courthouse in Franklin, and at mile 88.1.

DRAINAGE AREA.--191 mi², includes 15 mi² without surface drainage.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 604.42 ft above NGVD of 1929.

REMARKS.--No estimated daily discharge. Records good except those below 5.0 ft³/s, which are poor. The Franklin Utility District diverts part of its municipal water supply from the river above the gage. This water along with other water is returned to the river through the sewage treatment plant 2.7 mi below gage. 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 2,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 30	0530	5,120	19.38	Mar 31	1930	4,710	18.34
Jan 24	2230	*9,010	*25.80	May 13	1630	3,880	16.07
Mar 18	0700	7,110	23.34				

Minimum daily discharge, 2.6 ft³/s, Sept. 13.

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	3.4	28	1060	110	516	111	2470	367	33	3.9	3.5	3.5
2	3.4	27	627	99	456	115	1120	266	29	6.5	3.3	3.6
3	3.4	29	459	96	406	116	747	554	25	8.4	4.2	3.7
4	3.6	32	354	94	382	100	566	819	28	12	4.5	3.6
5	4.5	27	267	89	345	86	469	535	59	7.9	3.1	3.4
6	125	19	216	89	328	82	405	366	37	3.3	3.0	3.4
7	95	18	235	86	388	82	359	273	29	3.0	3.0	3.7
8	39	16	1580	77	419	86	326	207	21	3.6	3.1	3.6
9	24	13	1210	73	383	98	308	168	17	4.2	3.1	3.5
10	16	12	706	74	366	99	266	152	14	6.3	3.4	3.0
11	11	12	573	87	359	87	240	157	12	65	3.7	3.0
12	72	11	462	84	322	144	232	135	15	34	3.5	2.8
13	113	13	1030	76	294	450	214	2210	21	15	3.6	2.6
14	1130	11	1460	66	263	321	199	1280	15	11	3.6	3.1
15	587	12	911	61	237	253	171	575	9.8	13	5.9	4.4
16	289	18	611	58	223	250	143	377	8.5	5.7	6.1	127
17	176	18	522	64	200	4200	124	303	11	4.1	4.3	7.0
18	120	14	480	78	170	6450	116	327	9.7	8.7	3.9	17
19	92	9.7	394	777	151	2250	94	235	4.9	6.3	3.8	43
20	74	12	329	835	222	1910	86	181	5.1	3.3	3.9	71
21	61	12	271	517	227	1340	85	147	10	4.1	3.8	55
22	50	10	230	387	175	870	74	122	6.8	4.8	3.7	8.8
23	47	9.6	364	3070	149	661	62	105	2.9	20	4.2	5.8
24	63	30	425	7500	139	540	64	93	5.8	11	6.0	6.0
25	118	30	328	6290	134	455	75	87	7.3	3.7	3.7	5.5
26	87	37	269	1610	145	703	68	72	2.7	3.8	20	190
27	61	67	222	1000	133	578	63	61	4.0	6.3	4.8	793
28	43	302	193	734	116	461	165	56	4.5	6.3	3.8	281
29	37	2360	172	590	---	422	108	58	10	5.5	6.1	104
30	33	3710	152	512	---	936	70	53	7.1	3.9	3.7	56
31	30	---	130	444	---	3260	---	42	---	3.7	3.5	---
TOTAL	3611.3	6919.3	16242	25727	7648	27516	9489	10383	465.1	298.3	139.8	1821.0
MEAN	116.5	230.6	523.9	829.9	273.1	887.6	316.3	334.9	15.50	9.623	4.510	60.70
MAX	1130	3710	1580	7500	516	6450	2470	2210	59	65	20	793
MIN	3.4	9.6	130	58	116	82	62	42	2.7	3.0	3.0	2.6
CFSM	0.61	1.21	2.74	4.35	1.43	4.65	1.66	1.75	0.08	0.05	0.02	0.32
IN.	0.70	1.35	3.16	5.01	1.49	5.36	1.85	2.02	0.09	0.06	0.03	0.35

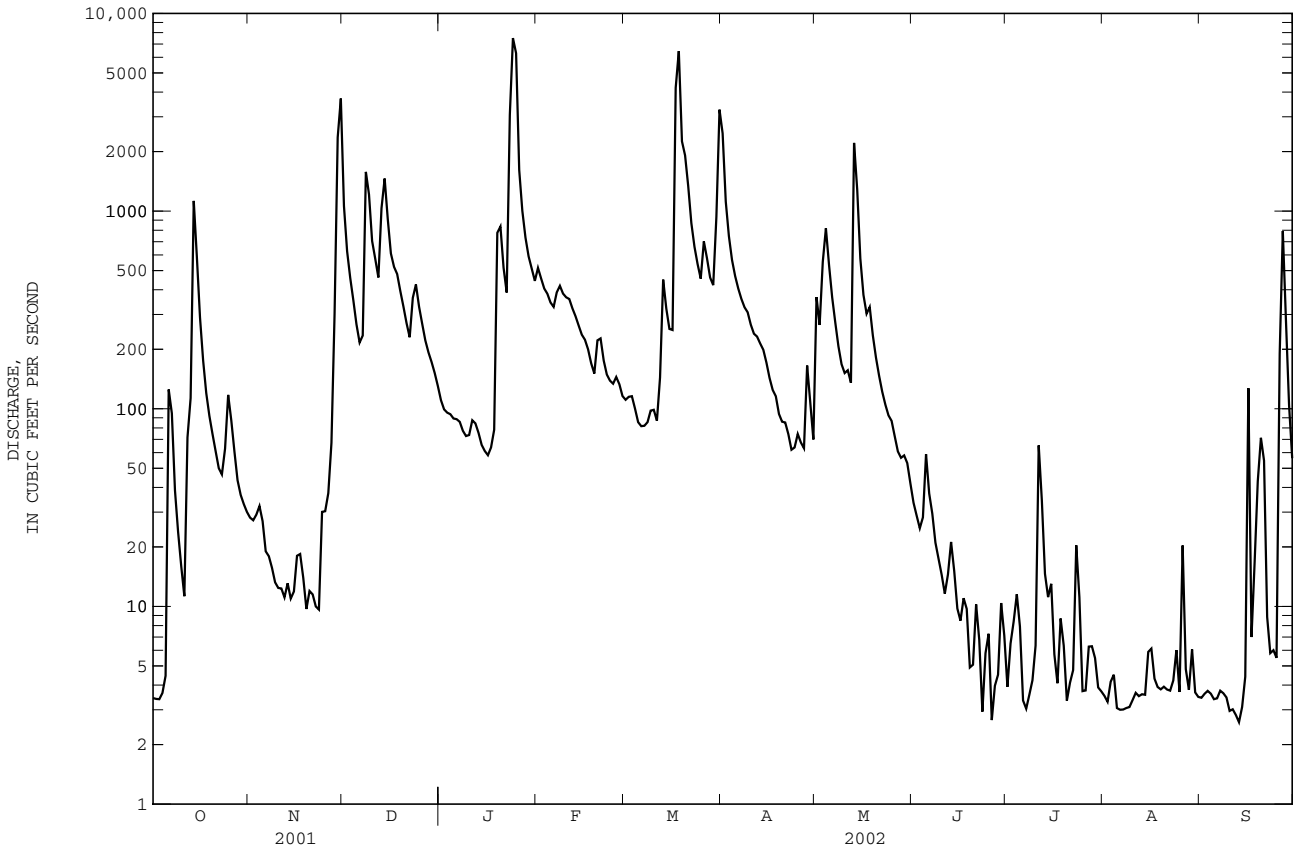
03432350 HARPETH RIVER AT FRANKLIN, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2002, BY WATER YEAR (WY)

MEAN	90.61	254.8	463.9	537.0	540.0	662.6	359.2	302.2	119.9	61.33	39.32	66.65
MAX	610	778	1172	1472	1358	1945	1066	1489	574	431	208	971
(WY)	1976	1980	1991	1979	1990	1975	1979	1984	1997	1989	1998	1979
MIN	0.52	4.08	16.2	14.4	139	159	62.2	21.8	1.25	1.44	1.58	1.17
(WY)	1981	1981	1981	1986	1978	1985	1986	1988	1988	1988	1988	1980

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1975 - 2002	
ANNUAL TOTAL	91234.1		110259.8		290.6	
ANNUAL MEAN	250.0		302.1		68.7	
HIGHEST ANNUAL MEAN					522	
LOWEST ANNUAL MEAN					1979	
HIGHEST DAILY MEAN	7920	Feb 17	7500	Jan 24	18500	Mar 13 1975
LOWEST DAILY MEAN	1.7	Sep 18	2.6	Sep 13	0.30	Oct 14 1980
ANNUAL SEVEN-DAY MINIMUM	4.0	Sep 12	3.1	Sep 8	0.32	Oct 20 1980
MAXIMUM PEAK FLOW			9010		20200	
MAXIMUM PEAK STAGE			25.80		33.65	
INSTANTANEOUS LOW FLOW			a2.3		0.30	
ANNUAL RUNOFF (CFSM)	1.31		1.58		1.52	1.52
ANNUAL RUNOFF (INCHES)	17.77		21.47		20.67	20.67
10 PERCENT EXCEEDS	581		617		642	642
50 PERCENT EXCEEDS	63		75		89	89
90 PERCENT EXCEEDS	9.3		3.7		2.9	2.9

a Also occurred Sept. 13.



CUMBERLAND RIVER BASIN

034323531 HARPETH RIVER TRIBUTARY AT MACK HATCHER PARKWAY NEAR FRANKLIN, TN

LOCATION.--Lat 35°55'20", long 86°51'18", Williamson County, Hydrologic Unit 05130204, on downstream left abutment on highway bridge on Mack Hatcher Parkway 0.5 north of Hwy 96 and Mack Hatcher intersection.

DRAINAGE AREA.--0.91 mi².

PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Data logger.

REMARKS.--Records poor. Periodic observations of water temperature and specific conductance are published in the report as miscellaneous water-quality data.

EXTREMES FOR WATER YEARS 2000-2002.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Water year	Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
2000	Jan 3	2235	171	4.63	May 25	0225	*454	*6.47
	Feb 17	2115	149	4.47	Sep 24	1510	205	4.86
	May 3	1650	142	4.42				

Minimum discharge, 0.00 ft³/s, on many days.

Water year	Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
2001	Nov 9	0005	*130	*5.54	Feb 25	0155	126	5.49

Minimum discharge, 0.00 ft³/s, on many days.

Water year	Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
2002	Nov 29	1040	108	5.19	May 13	0735	*221	*5.03

Minimum discharge, 0.00 ft³/s, on many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.15	0.0	0.02	0.24	0.62	0.25	1.9	1.2	0.08	0.00	0.01
2	0.00	6.6	0.00	0.02	0.17	0.49	0.71	1.6	0.87	0.06	0.00	0.01
3	0.00	0.09	0.00	14	0.14	0.58	17	13	0.66	0.05	0.0	0.01
4	0.00	0.04	0.00	4.3	0.09	0.40	7.7	2.2	0.53	0.04	3.8	0.01
5	0.00	0.02	0.39	1.9	0.06	0.24	3.6	1.7	0.46	0.03	0.03	0.01
6	0.00	0.01	0.17	1.4	0.05	0.20	2.5	1.3	0.39	0.03	0.0	0.01
7	0.00	0.00	0.03	1.2	0.04	0.16	2.0	0.73	0.33	0.03	0.00	0.01
8	0.00	0.00	0.01	0.77	0.03	0.11	4.3	0.35	0.26	0.03	0.02	0.01
9	3.9	0.00	0.01	1.9	0.03	0.07	1.7	0.19	0.20	0.01	0.07	0.01
10	0.71	0.00	2.8	0.68	0.03	0.21	1.4	1.1	0.16	0.00	0.12	0.01
11	0.07	0.00	0.26	0.38	0.09	1.6	4.9	0.16	0.13	0.00	0.08	0.01
12	0.0	0.00	7.4	0.29	0.22	0.28	e8.1	0.11	0.09	1.2	0.03	0.01
13	0.00	0.00	6.4	1.2	9.1	0.16	e5.8	0.09	0.08	0.08	0.02	0.04
14	0.00	0.00	2.9	0.36	4.1	0.11	e5.1	0.05	0.07	0.03	0.02	0.01
15	0.00	0.00	2.0	0.25	2.5	0.09	e4.6	0.03	0.06	0.00	0.02	0.01
16	0.00	0.00	1.4	0.26	2.0	0.50	e3.8	0.03	0.05	0.00	0.02	0.01
17	0.00	0.00	1.0	0.23	13	0.18	e5.4	0.03	0.63	0.00	0.01	0.01
18	0.00	0.00	0.72	0.23	4.3	0.09	e4.2	0.02	0.21	0.00	0.01	0.01
19	0.00	0.00	0.45	0.24	3.7	14	e3.6	0.01	0.11	0.00	0.01	0.01
20	0.00	0.00	0.31	0.31	3.0	5.8	e3.2	0.02	0.08	0.0	0.01	0.01
21	0.00	0.00	0.22	0.22	2.3	2.9	e2.9	0.03	0.06	0.02	0.01	0.01
22	0.00	0.00	0.15	0.18	1.8	2.0	e2.6	0.02	0.05	0.00	0.01	0.01
23	0.00	0.00	0.12	0.27	1.4	1.5	e2.4	6.0	0.04	0.00	0.01	0.01
24	0.00	0.0	0.11	0.27	1.2	1.2	e33	0.06	0.03	0.00	0.01	13
25	0.00	2.9	0.10	0.21	0.85	1.7	e20	54	0.02	0.00	0.01	0.52
26	0.00	1.4	0.09	0.40	0.70	0.95	e7.2	11	0.03	0.00	0.01	0.28
27	0.00	0.20	0.08	0.16	3.6	1.2	e8.4	9.7	2.7	0.00	0.72	0.24
28	0.00	0.06	0.06	0.10	1.2	0.47	e7.0	7.1	0.26	0.00	0.05	0.23
29	0.00	0.01	0.05	0.58	0.88	0.36	e3.8	5.5	0.13	0.00	0.02	0.21
30	0.00	0.01	0.04	0.46	---	0.86	2.7	3.4	0.10	0.03	0.02	0.18
31	0.00	---	0.03	0.30	---	0.33	---	1.9	---	0.0	0.01	---
TOTAL	4.68	11.49	27.30	33.09	56.82	39.36	179.86	123.33	9.99	1.72	5.15	14.92
MEAN	0.151	0.383	0.881	1.067	1.959	1.270	5.995	3.978	0.333	0.055	0.166	0.497
MAX	3.9	6.6	7.4	14	13	14	33	54	2.7	1.2	3.8	13
MIN	0.00	0.00	0.00	0.02	0.03	0.07	0.25	0.01	0.02	0.00	0.00	0.01
CFSM	0.17	0.42	0.97	1.17	2.15	1.40	6.59	4.37	0.37	0.06	0.18	0.55
IN.	0.19	0.47	1.12	1.35	2.32	1.61	7.35	5.04	0.41	0.07	0.21	0.61

e Estimated

034323531 HARPETH RIVER TRIBUTARY AT MACK HATCHER PARKWAY NEAR FRANKLIN, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.25	0.00	0.39	0.36	1.1	1.5	0.53	0.11	2.5	0.50	0.07	0.51
2	0.0	0.00	0.34	0.33	0.94	1.2	0.47	0.11	1.2	0.42	0.06	0.24
3	0.00	0.00	0.31	0.30	0.82	0.93	0.51	0.08	0.89	0.38	0.43	0.24
4	0.00	0.00	0.26	0.27	0.72	2.0	0.44	0.06	0.65	0.49	0.15	0.21
5	0.00	0.00	0.22	0.26	0.64	1.2	0.40	0.06	0.44	0.43	0.08	0.17
6	0.55	0.49	0.19	0.23	0.56	e1.1	0.34	0.08	0.33	0.34	0.06	0.13
7	0.07	0.63	0.16	0.21	0.47	e0.77	0.30	e0.07	0.53	0.32	0.06	0.11
8	0.00	12	0.14	0.20	0.39	e0.52	0.28	e0.07	0.36	0.30	0.06	0.10
9	0.00	22	0.11	0.17	3.5	e0.30	0.26	e0.07	0.25	0.29	0.06	0.16
10	0.00	2.6	0.09	0.15	1.6	e0.20	0.24	e0.07	0.19	0.30	0.70	0.17
11	0.00	1.4	0.09	0.28	1.1	e0.11	0.19	0.12	0.16	0.29	0.17	0.10
12	0.00	0.77	0.24	0.43	0.96	e0.45	0.25	0.07	0.12	0.29	0.09	0.08
13	0.00	0.61	8.1	0.25	1.2	e0.21	3.7	0.02	0.10	0.29	0.07	0.07
14	0.00	0.45	3.0	0.21	3.8	e0.02	0.63	0.02	2.4	0.28	0.06	0.07
15	0.00	0.31	3.5	0.18	19	e1.3	2.5	0.01	5.0	0.28	0.05	0.07
16	0.00	0.38	18	0.16	38	0.75	0.71	0.0	13	0.27	0.05	0.07
17	0.00	0.33	6.6	0.14	19	0.55	0.57	0.00	5.7	0.26	0.05	0.06
18	0.00	0.22	3.4	2.8	11	0.48	0.61	0.00	2.6	0.26	0.05	0.06
19	0.00	0.17	2.4	14	5.1	0.46	0.54	0.01	1.5	0.26	0.05	5.4
20	0.00	0.16	1.7	5.7	3.0	6.7	0.46	0.02	1.2	0.26	0.05	0.69
21	0.00	0.17	1.4	3.4	2.1	3.7	0.41	0.82	2.5	0.26	0.04	0.26
22	0.00	0.17	1.1	2.3	2.9	2.5	0.32	6.8	3.9	0.25	0.04	0.22
23	0.00	0.14	0.99	1.5	1.5	1.9	0.33	1.1	1.0	0.24	4.6	0.21
24	0.00	1.0	0.86	1.3	1.2	1.5	1.0	0.60	0.82	0.46	1.6	1.2
25	0.00	1.7	0.75	1.1	18	1.2	0.32	0.37	0.72	2.7	0.21	0.30
26	0.00	0.70	0.66	0.90	4.4	1.1	0.25	0.24	0.66	0.15	0.20	0.24
27	0.00	0.55	0.60	0.76	3.0	0.90	0.21	0.19	0.60	0.09	7.6	0.23
28	0.00	0.47	0.51	0.65	2.1	0.76	0.18	0.29	0.54	0.09	0.48	0.22
29	0.00	0.48	0.48	3.4	---	0.68	0.15	0.23	0.53	0.09	0.26	0.21
30	0.00	0.41	0.40	1.8	---	0.64	0.12	0.14	0.90	0.14	0.23	0.21
31	0.00	---	0.36	1.4	---	0.59	---	3.7	---	0.08	0.35	---
TOTAL	0.87	48.31	57.35	45.14	148.10	36.22	17.22	15.53	51.29	11.06	18.03	12.01
MEAN	0.028	1.610	1.850	1.456	5.289	1.168	0.574	0.501	1.710	0.357	0.582	0.400
MAX	0.55	22	18	14	38	6.7	3.7	6.8	13	2.7	7.6	5.4
MIN	0.00	0.00	0.09	0.14	0.39	0.02	0.12	0.00	0.10	0.08	0.04	0.06
CFSM	0.03	1.77	2.03	1.60	5.81	1.28	0.63	0.55	1.88	0.39	0.64	0.44
IN.	0.04	1.97	2.34	1.85	6.05	1.48	0.70	0.63	2.10	0.45	0.74	0.49

e Estimated

CUMBERLAND RIVER BASIN

034323531 HARPETH RIVER TRIBUTARY AT MACK HATCHER PARKWAY NEAR FRANKLIN, TN--Continued

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	0.09	0.19	26	0.64	7.1	0.58	24	16	0.15	0.08	0.04	0.00
2	0.08	0.17	22	0.59	3.1	0.53	19	7.8	0.14	0.08	0.00	0.00
3	0.06	0.17	19	0.54	3.2	0.50	14	5.4	0.13	0.48	0.00	0.00
4	0.05	0.14	13	0.50	2.6	0.46	9.5	8.7	1.3	0.13	0.00	0.00
5	2.4	0.12	7.5	0.47	2.1	0.42	6.2	5.3	0.98	0.10	0.00	0.00
6	1.5	0.11	5.4	0.54	2.2	0.40	4.5	4.4	0.18	0.10	0.00	0.00
7	0.14	0.10	7.9	0.46	2.8	0.39	4.2	4.0	0.19	0.10	0.00	0.00
8	0.06	0.09	30	0.41	2.3	0.34	4.3	3.5	0.17	0.10	0.00	0.00
9	0.02	0.09	16	0.38	1.9	1.3	3.5	3.4	0.16	0.13	0.00	0.00
10	0.00	0.09	9.7	0.38	2.3	0.54	2.7	4.1	0.15	0.85	0.00	0.00
11	e0.39	0.08	4.4	0.84	1.8	0.38	2.4	3.3	0.15	0.11	0.00	0.00
12	e5.6	0.07	3.9	0.49	1.6	0.98	2.9	2.8	0.15	0.66	0.00	0.00
13	e0.45	0.06	10	0.41	1.4	e0.72	2.4	e26	0.27	0.14	0.00	0.00
14	e16	0.06	8.3	0.37	1.3	e0.64	2.0	e11	0.17	0.07	0.00	0.00
15	e5.0	0.05	5.3	0.33	1.1	e0.58	1.8	e5.4	0.17	0.08	0.86	0.00
16	e1.7	0.05	4.0	0.32	1.1	e4.9	1.7	e3.2	0.17	0.09	0.36	0.00
17	0.20	0.04	4.5	e0.33	0.99	e40	1.5	e3.7	0.17	0.05	0.09	0.00
18	0.00	0.04	2.9	e0.97	0.88	e25	1.4	e2.3	0.15	0.13	0.00	0.17
19	0.00	0.05	2.3	e3.0	0.82	e16	1.3	e1.4	0.14	0.18	0.00	0.00
20	0.00	0.20	1.9	1.9	4.0	e36	1.2	e0.96	0.13	0.01	0.00	2.4
21	0.00	0.05	1.6	1.4	1.2	e27	1.2	e0.63	0.11	0.04	0.00	0.02
22	0.00	0.04	1.4	1.7	0.94	21	1.1	e0.42	0.11	0.04	2.0	0.00
23	0.00	0.03	2.1	e16	0.84	17	1.2	e0.28	0.10	2.5	3.6	0.00
24	4.3	6.1	1.5	e120	0.75	14	3.9	0.19	0.12	0.41	0.90	0.00
25	5.6	0.56	1.3	e34	0.69	11	2.8	0.15	0.11	0.17	0.55	0.00
26	0.55	0.21	1.1	e14	1.4	17	1.9	0.16	0.10	0.13	0.28	9.7
27	0.43	7.6	1.0	9.9	0.76	13	1.7	0.15	0.10	0.09	0.16	7.8
28	0.40	0.99	0.92	6.1	0.67	11	11	0.13	0.11	0.16	0.11	3.6
29	0.36	47	0.82	4.4	---	12	3.5	0.13	0.09	0.09	0.04	3.9
30	0.32	33	0.75	3.5	---	15	3.1	0.52	0.09	0.64	0.0	1.8
31	0.25	---	0.69	2.7	---	27	---	0.19	---	0.19	0.00	---
TOTAL	45.95	97.55	217.18	227.57	51.84	315.66	141.9	125.61	6.26	8.13	8.99	29.39
MEAN	1.482	3.252	7.006	7.341	1.851	10.18	4.730	4.052	0.209	0.262	0.290	0.980
MAX	16	47	30	120	7.1	40	24	26	1.3	2.5	3.6	9.7
MIN	0.00	0.03	0.69	0.32	0.67	0.34	1.1	0.13	0.09	0.01	0.00	0.00
CFSM	1.63	3.57	7.70	8.07	2.03	11.2	5.20	4.45	0.23	0.29	0.32	1.08
IN.	1.88	3.99	8.88	9.30	2.12	12.90	5.80	5.13	0.26	0.33	0.37	1.20

e Estimated

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CUMBERLAND RIVER BASIN

03432387 SOUTH PRONG SPENCER CREEK NEAR FRANKLIN, TN

LOCATION.--Lat 35°56'39", long 86°49'35", Williamson County, Hydrologic Unit 05130204, on left upstream side of the bridge on Cool Spring Blvd., 1.7 miles northeast of Franklin, Tennessee.

DRAINAGE AREA.--2.66 mi².

PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Data logger.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 250 ft³/s, May 13, gage height, 8.55 ft; minimum daily discharge, 0.08 ft³/s, Aug. 12, 13, 14.

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	0.25	0.25	12	1.6	13	2.1	30	12	3.8	2.6	0.31	0.33
2	0.24	0.24	7.3	1.4	7.2	2.0	19	7.8	3.6	2.5	0.27	0.31
3	0.22	0.31	5.0	1.4	7.0	2.0	14	7.1	3.4	6.2	0.23	0.29
4	0.22	0.27	4.0	1.3	5.9	1.9	10	11	6.6	0.91	0.23	0.32
5	2.5	0.27	3.3	1.2	5.1	1.8	8.4	6.5	6.1	0.70	0.19	0.28
6	0.86	0.27	3.1	1.4	5.4	1.8	7.0	5.1	4.2	0.58	0.15	0.26
7	0.44	0.25	3.5	1.2	6.4	1.7	6.0	4.2	3.9	0.49	0.14	0.26
8	0.37	0.24	36	1.1	5.7	1.7	5.5	3.6	3.7	0.50	0.13	0.24
9	0.33	0.24	14	1.1	5.2	3.8	5.0	3.3	3.6	1.0	0.12	0.23
10	0.30	0.24	9.6	1.2	5.5	2.0	4.3	4.6	3.6	2.8	0.12	0.22
11	1.2	0.24	6.3	1.6	4.6	2.1	4.0	3.2	3.2	0.99	0.11	0.21
12	4.9	0.23	5.6	1.1	4.2	3.6	4.8	2.8	3.1	1.5	0.09	0.21
13	8.3	0.22	16	1.1	3.9	2.4	3.6	52	3.4	1.00	0.09	0.20
14	12	0.20	18	1.1	3.5	2.4	3.3	21	3.0	0.80	0.32	0.26
15	2.2	0.20	12	1.0	3.2	2.3	3.0	13	3.0	0.77	1.3	0.97
16	1.6	0.19	7.8	0.97	3.0	12	2.8	9.8	3.0	0.63	0.81	0.50
17	1.1	0.18	7.6	1.1	2.7	90	2.6	11	2.9	0.54	0.29	0.40
18	1.1	0.17	5.3	1.4	2.5	59	2.5	9.0	2.8	0.62	0.22	1.2
19	0.71	0.31	4.2	7.4	2.4	35	2.4	7.4	2.7	0.41	0.20	0.56
20	0.57	0.19	3.5	3.8	5.9	41	2.3	6.6	2.6	0.36	0.16	5.5
21	0.45	0.16	3.1	3.1	3.0	28	2.1	6.0	2.5	0.42	0.15	1.4
22	0.49	0.15	2.7	4.0	2.7	19	2.3	5.7	2.5	0.38	2.3	0.91
23	0.41	0.14	3.7	35	2.5	14	2.1	5.2	2.7	2.2	2.7	0.78
24	3.8	1.8	2.6	81	2.4	11	5.5	4.9	2.6	0.66	0.99	0.66
25	1.3	0.39	2.5	36	2.3	8.6	2.8	4.7	2.7	0.46	0.99	0.88
26	0.70	0.33	2.3	24	3.6	20	2.4	4.5	2.6	0.38	0.75	19
27	0.48	2.2	2.1	16	2.4	12	2.1	4.3	3.0	0.33	0.66	14
28	0.44	0.85	2.0	12	2.2	9.4	5.5	4.3	2.7	0.37	0.57	3.7
29	0.34	75	1.9	9.0	---	10	2.6	4.0	2.5	0.32	0.47	2.4
30	0.31	25	1.8	7.6	---	13	2.4	6.2	2.7	0.94	0.42	1.9
31	0.29	---	1.7	6.3	---	44	---	4.3	---	0.38	0.37	---
TOTAL	48.42	110.73	210.5	267.47	123.4	459.6	170.3	255.1	98.7	32.74	15.85	58.38
MEAN	1.562	3.691	6.790	8.628	4.407	14.83	5.677	8.229	3.290	1.056	0.511	1.946
MAX	12	75	36	81	13	90	30	52	6.6	6.2	2.7	19
MIN	0.22	0.14	1.7	0.97	2.2	1.7	2.1	2.8	2.5	0.32	0.09	0.20
CFSM	0.59	1.39	2.55	3.24	1.66	5.57	2.13	3.09	1.24	0.40	0.19	0.73
IN.	0.68	1.55	2.94	3.74	1.73	6.43	2.38	3.57	1.38	0.46	0.22	0.82

03432387 SOUTH PRONG SPENCER CREEK NEAR FRANKLIN, TN--Continued

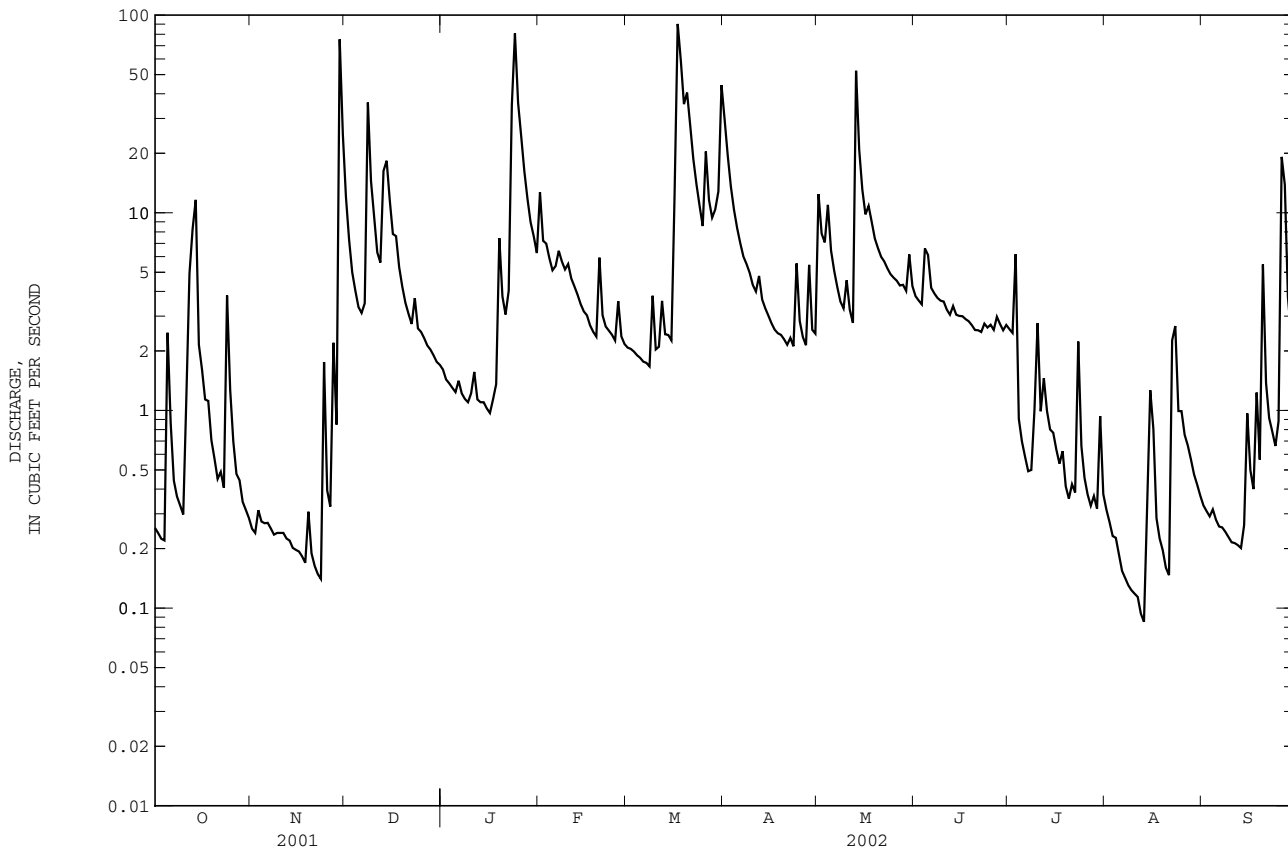
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

MEAN	0.812	3.668	5.466	6.222	9.698	9.563	3.595	5.206	2.319	0.607	0.617	1.060
MAX	1.56	3.69	6.79	8.63	15.0	14.8	5.68	8.23	3.29	1.06	1.07	1.95
(WY)	2002	2002	2002	2002	2001	2002	2002	2002	2002	2002	2001	2002
MIN	0.063	3.64	4.14	3.82	4.41	4.30	1.51	2.18	0.95	0.16	0.27	0.30
(WY)	2001	2001	2001	2001	2002	2001	2001	2001	2000	2000	2000	2000

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 2000 - 2002

ANNUAL TOTAL	1315.40		1851.19		4.160	
ANNUAL MEAN	3.604		5.072		3.25	
HIGHEST ANNUAL MEAN					5.07 2002	
LOWEST ANNUAL MEAN					3.25 2001	
HIGHEST DAILY MEAN	113	Feb 16	90	Mar 17	113	Feb 16 2001
LOWEST DAILY MEAN	0.14	Nov 23	0.09	Aug 12	a0.01	Aug 23 2000
ANNUAL SEVEN-DAY MINIMUM	0.19	Nov 17	0.11	Aug 7	0.01	Oct 28 2000
MAXIMUM PEAK FLOW			250	May 13	270	Nov 9 2000
MAXIMUM PEAK STAGE			8.55	May 13	9.06	Nov 9 2000
INSTANTANEOUS LOW FLOW			b0.08	Aug 12		
ANNUAL RUNOFF (CFSM)	1.35		1.91		1.56	
ANNUAL RUNOFF (INCHES)	18.40		25.89		21.25	
10 PERCENT EXCEEDS	7.8		12		9.0	
50 PERCENT EXCEEDS	1.2		2.4		1.5	
90 PERCENT EXCEEDS	0.27		0.24		0.23	

a Many days.
 b Also occurred Aug. 13, 14.



CUMBERLAND RIVER BASIN

03432390 SPENCER CREEK NEAR FRANKLIN, TN

LOCATION.--Lat 35°56'35", long 86°51'18", Williamson County, Hydrologic Unit 05130204, on right downstream side of bridge on U.S. Highway 31, 1.5 mi northeast of Franklin.

DRAINAGE AREA.--10.3 mi².

PERIOD OF RECORD.--April 1999 to current year. Occasional low-flow measurements, water year 1959, 1975.

GAGE.--Data collection platform and crest-stage gage at present.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 517 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 29	1145	*1,030	*9.66	Mar 17	0530	833	9.23
Nov 29	2100	622	8.66	Mar 17	2100	740	9.00
Dec 8	0715	726	8.96	May 13	0830	776	9.09
Jan 24	0615	901	9.39				

Minimum discharge, 1.6 ft³/s, June 21, 22.

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	2.6	3.3	48	5.9	53	6.2	89	57	4.0	3.9	3.8	3.5
2	2.6	3.1	30	5.6	24	6.3	57	29	3.3	3.4	3.5	2.8
3	2.9	3.9	23	5.3	23	6.0	38	19	2.9	33	3.1	2.6
4	3.2	3.0	20	5.1	19	5.5	28	37	9.0	7.5	2.9	2.6
5	19	2.8	17	5.0	16	5.2	22	17	15	5.1	2.8	2.7
6	12	2.5	17	6.2	18	4.9	19	14	5.3	4.3	2.8	2.4
7	4.8	2.4	19	5.5	23	4.8	16	11	4.2	3.4	2.5	2.5
8	3.9	2.4	174	5.0	19	4.6	16	9.2	3.3	4.5	2.4	2.4
9	3.3	2.4	55	4.6	17	16	15	9.1	3.0	8.6	2.3	2.4
10	3.2	2.3	39	4.7	19	7.0	12	15	2.9	20	2.3	2.4
11	4.4	2.3	29	11	15	6.1	11	8.8	2.7	8.7	2.3	2.4
12	46	2.2	29	6.2	13	15	14	7.2	2.4	14	2.1	2.4
13	46	2.2	72	5.5	12	9.7	10	149	4.1	10	2.0	2.5
14	86	2.1	81	5.0	11	8.6	9.0	31	2.7	7.5	2.5	3.1
15	17	2.0	45	4.5	10	8.0	8.0	17	2.4	6.0	14	11
16	13	1.9	32	4.2	9.8	57	7.1	12	2.2	5.1	15	5.7
17	9.5	1.9	40	4.4	8.4	384	6.8	15	2.2	4.1	6.3	3.7
18	8.2	1.9	26	9.3	7.8	226	6.4	11	2.1	4.5	4.8	15
19	7.5	3.1	22	51	7.3	109	5.8	7.6	2.1	4.8	4.1	5.2
20	7.1	3.3	18	20	26	174	5.4	6.4	2.0	3.9	3.8	43
21	5.6	2.4	16	16	10	87	4.9	5.4	1.8	7.9	3.2	15
22	5.3	2.3	13	20	8.7	55	5.5	4.6	1.8	5.0	20	8.0
23	6.3	2.3	23	188	7.9	39	4.3	3.9	2.1	18	13	6.0
24	28	24	14	351	7.3	29	27	3.6	3.2	6.8	7.5	5.0
25	12	3.8	13	121	6.9	24	8.9	3.4	2.9	4.9	8.1	6.9
26	5.9	2.6	12	68	14	69	6.0	3.5	2.5	4.2	5.4	145
27	5.3	20	9.5	46	7.4	29	5.4	3.0	3.4	3.6	4.2	114
28	4.8	6.5	8.5	34	6.7	24	21	2.9	3.9	3.5	3.7	26
29	4.3	364	7.6	27	---	34	6.6	2.7	2.9	e3.5	3.1	16
30	4.2	114	6.7	24	---	43	5.7	29	3.6	e3.60	2.9	13
31	3.5	---	6.2	20	---	204	---	5.9	---	e3.50	3.1	---
MEAN	12.50	19.76	31.15	35.13	15.01	54.87	16.36	17.75	3.530	7.316	5.145	15.84
MAX	86	364	174	351	53	384	89	149	15	33	20	145
MIN	2.6	1.9	6.2	4.2	6.7	4.6	4.3	2.7	1.8	3.4	2.0	2.4

e Estimated

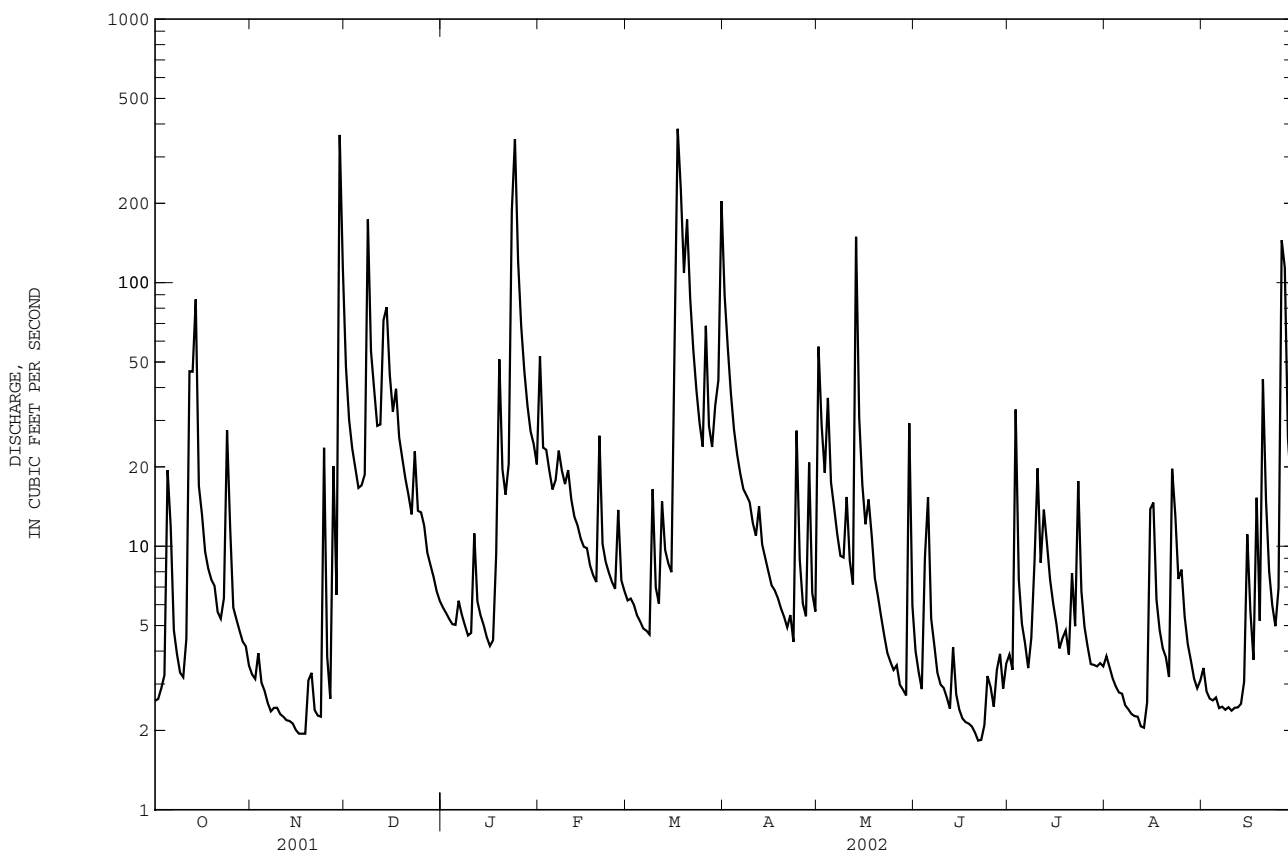
03432390 SPENCER CREEK NEAR FRANKLIN, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

MEAN	6.441	16.66	20.06	22.85	34.05	31.79	16.61	22.29	7.308	5.623	5.342	6.976
MAX	12.5	22.4	31.1	35.1	63.9	54.9	29.9	44.3	12.8	7.32	8.75	15.8
(WY)	2002	2001	2002	2002	2001	2002	2000	2000	2001	2002	2001	2002
MIN	1.80	7.77	9.54	15.4	15.0	19.2	9.83	13.1	3.53	3.42	2.73	2.44
(WY)	2001	2000	2000	2000	2002	2000	2001	1999	2002	2000	1999	1999

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1999 - 2002	
ANNUAL MEAN	18.17		19.63		16.86	
HIGHEST ANNUAL MEAN					19.6	
LOWEST ANNUAL MEAN					14.5	
HIGHEST DAILY MEAN	453	Feb 16	384	Mar 17	550	May 25 2000
LOWEST DAILY MEAN	1.9	Nov 16	1.8	Jun 21	0.78	Sep 18 1999
ANNUAL SEVEN-DAY MINIMUM	2.0	Nov 12	2.0	Jun 17	0.99	Sep 6 1999
MAXIMUM PEAK FLOW			1030	Nov 29	3250	May 25 2000
MAXIMUM PEAK STAGE			9.66	Nov 29	a11.75	May 25 2000
INSTANTANEOUS LOW FLOW			b1.6	Jun 21	0.77	Jun 30 2000
10 PERCENT EXCEEDS	39		39		31	
50 PERCENT EXCEEDS	6.7		6.6		6.2	
90 PERCENT EXCEEDS	2.6		2.4		2.4	

a From high-water mark.
 b Also occurred June 22.



CUMBERLAND RIVER BASIN

03432400 HARPETH RIVER BELOW FRANKLIN, TN

LOCATION.--Lat 35°56'53", long 86°52'54", Williamson County, Hydrologic Unit 05130204, on right bank 0.1 mi below bridge on U.S. Highway 431, 1.2 mi downstream from Spence Creek, 1.8 mi northwest of the courthouse in Franklin, and at mile 84.3.

DRAINAGE AREA.--210 mi², includes 15 mi² without surface drainage.

PERIOD OF RECORD.--August 1988 to September 1999, discharge for gage height of 6.00 ft and below only, October 1999 to current year.

GAGE.--Data collection platform.

REMARKS.--Records good except for estimated daily discharges Feb. 9-11, which are fair. Flow is affected by Franklin sewage treatment plant outflow 1.1 mi upstream. Periodic observations of water temperature and specific conductance are published in the report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; maximum gage height, 28.97 ft, Feb. 4, 1990; minimum discharge, 3.0 ft³/s, Aug. 19, 1988, Sept. 12, 18, 1999; minimum daily, 4.1 ft³/s, Aug. 18, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 29	2330	6,000	19.68	Mar 31	2045	5,290	18.47
Jan 25	0015	*9,170	*25.49	May 13	1715	4,220	16.12
Mar 18	0900	7,870	23.39				

Minimum discharge, 5.2 ft³/s, Sept. 14.

Minimum daily discharge, 9.5 ft³/s, Sept. 13.

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	13	43	1400	122	612	141	2930	423	56	16	14	12
2	12	40	863	112	514	144	1310	281	48	20	14	11
3	11	42	647	107	446	143	875	585	43	57	14	11
4	11	44	512	105	413	131	655	872	41	27	14	11
5	21	41	403	101	367	119	528	592	105	23	12	11
6	137	33	345	101	347	113	440	383	62	15	11	9.7
7	119	32	369	97	411	111	382	279	53	13	11	10
8	53	30	1830	90	447	113	342	215	40	14	11	10
9	37	28	1410	83	e500	135	320	179	35	19	11	11
10	29	26	812	81	e450	129	278	173	31	30	10	10
11	24	26	643	101	e400	116	249	168	27	79	10	10
12	143	25	512	94	332	152	244	151	28	66	11	10
13	160	26	1120	87	304	450	223	2380	39	45	12	9.5
14	1240	25	1630	79	275	318	209	1550	33	29	12	10
15	650	23	1060	74	250	250	184	693	25	30	26	17
16	309	31	709	71	238	295	161	445	22	20	32	135
17	197	30	604	75	217	4580	145	346	24	17	21	26
18	144	29	540	93	192	7420	135	375	25	21	17	34
19	114	24	423	786	176	2750	118	271	18	22	16	42
20	94	29	342	959	250	2230	109	212	17	15	15	77
21	78	26	280	577	242	1580	108	177	22	17	15	72
22	66	23	239	409	197	1050	101	153	21	17	26	29
23	60	22	367	3220	175	798	89	136	14	51	24	21
24	83	71	454	7850	166	639	112	122	17	32	27	16
25	163	48	330	7410	160	525	105	116	22	19	19	18
26	108	50	268	1900	174	822	94	103	16	15	30	346
27	81	97	224	1190	159	682	88	88	15	18	19	960
28	61	286	197	867	147	522	184	80	19	17	14	346
29	53	2650	176	685	---	476	139	81	21	18	15	171
30	49	4540	156	581	---	1000	96	101	20	19	14	109
31	46	---	140	493	---	3590	---	70	---	18	12	---
TOTAL	4366	8440	19005	28600	8561	31524	10953	11800	959	819	509	2565.2
MEAN	140.8	281.3	613.1	922.6	305.8	1017	365.1	380.6	31.97	26.42	16.42	85.51
MAX	1240	4540	1830	7850	612	7420	2930	2380	105	79	32	960
MIN	11	22	140	71	147	111	88	70	14	13	10	9.5

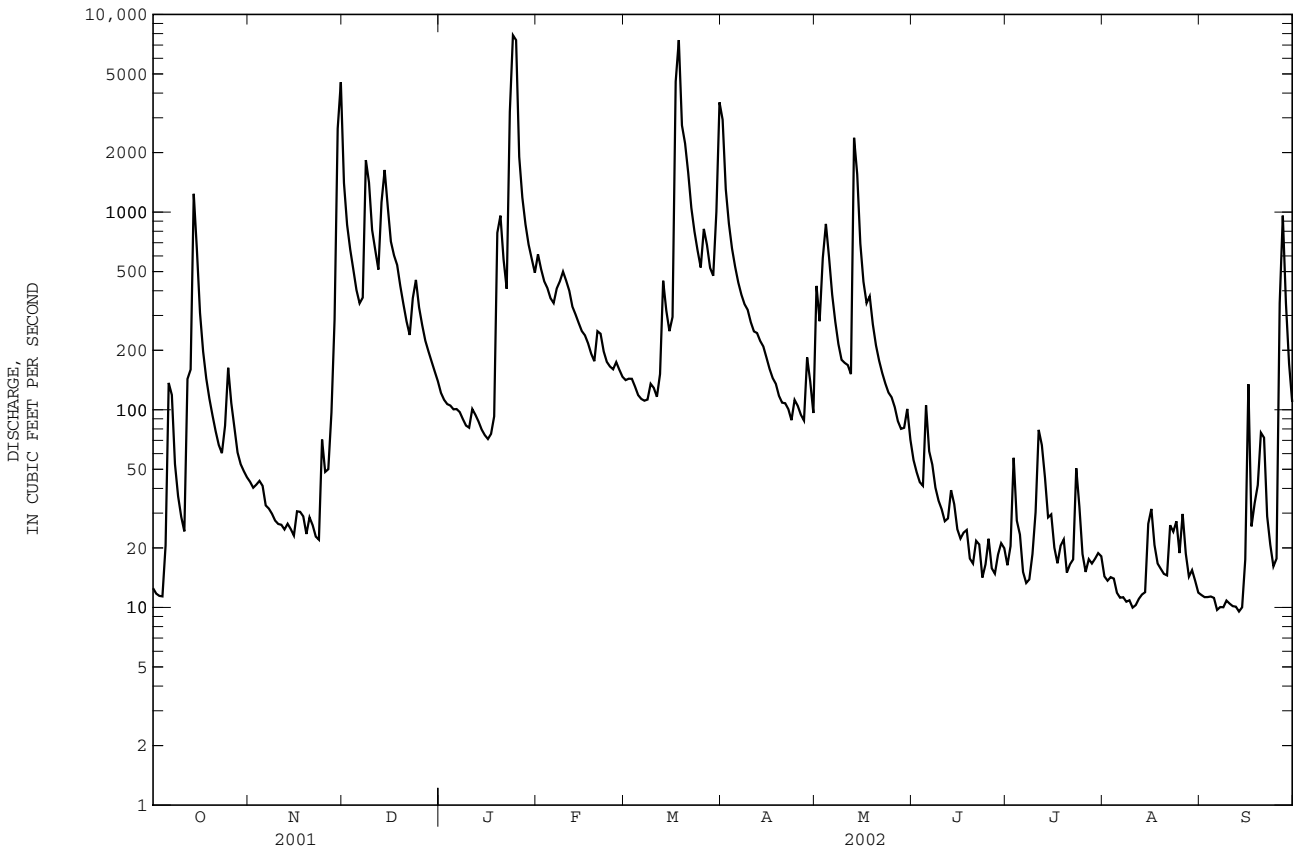
e Estimated

03432400 HARPETH RIVER BELOW FRANKLIN, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

MEAN	42.49	103.5	396.3	495.4	695.5	660.8	310.7	223.9	62.97	32.64	32.05	29.42
MAX	141	281	613	923	1273	1017	748	381	111	45.9	131	85.5
(WY)	2002	2002	2002	2002	2001	2002	2000	2002	2001	1994	2001	2002
MIN	7.68	16.7	115	173	306	458	110	66.8	32.0	17.8	8.22	10.0
(WY)	1994	1999	2000	2000	2002	2001	1999	2001	2002	2000	1988	1993

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1988 - 2002	
ANNUAL TOTAL	110508		128101.2			
ANNUAL MEAN	302.8		351.0		275.6	
HIGHEST ANNUAL MEAN					351	
LOWEST ANNUAL MEAN					207	
HIGHEST DAILY MEAN	8650	Feb 17	7850	Jan 24	8650	Feb 17 2001
LOWEST DAILY MEAN	11	Jul 16	9.5	Sep 13	4.1	Aug 18 1988
ANNUAL SEVEN-DAY MINIMUM	14	Jul 16	10	Sep 7	4.4	Aug 12 1988
MAXIMUM PEAK FLOW			9170		9730	
MAXIMUM PEAK STAGE			25.49		NOT DETERMINED	
INSTANTANEOUS LOW FLOW			5.2		3.0	
10 PERCENT EXCEEDS	668		740		606	Aug 19 1988
50 PERCENT EXCEEDS	88		101		78	
90 PERCENT EXCEEDS	23		14		11	



CUMBERLAND RIVER BASIN

03433500 HARPETH RIVER AT BELLEVUE, TN

LOCATION.--Lat 36°03'16", long 86°55'42", Davidson County, Hydrologic Unit 05130204, on right bank 45 ft upstream from bridge on State Highway 100, 0.1 mi downstream from Little Harpeth River, 0.9 mi southeast of Bellevue, and at mile 62.1.

DRAINAGE AREA.--408 mi², includes 15 mi² without surface drainage.

PERIOD OF RECORD.--April 1920 to current year. Monthly discharge only November 1929 to December 1931, published in WSP 1306.

REVISED RECORDS.--WSP 953: 1920-30, 1932-35. WSP 1386: 1948. WSP 1556: Drainage area. WSP 1910: 1960.

GAGE.--Data collection platform. Datum of gage is 541.04 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Apr. 11, 1920, to Oct. 31, 1929, Jan. 1, 1932, to Sept. 30, 1933, nonrecording gage at site 2.8 mi downstream at datum 7.85 ft lower.

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 1897, that of Feb. 13, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 30	1000	10,600	15.16	Mar 18	0100	13,900	17.39
Jan 25	0530	*14,400	*17.69	Mar 31	2330	8,360	13.09

Minimum discharge, 11 ft³/s, Aug. 10, Sept. 12.

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	21	75	2640	263	1100	271	5790	853	140	43	35	22
2	16	66	1370	240	1010	270	2520	730	118	39	27	19
3	15	63	977	224	866	273	1780	1040	104	114	22	17
4	14	67	761	216	799	252	1430	1380	93	103	21	16
5	20	64	598	204	699	224	1180	1330	157	58	20	15
6	72	56	484	207	647	213	999	910	160	45	18	14
7	221	42	461	206	696	207	869	684	123	30	15	15
8	127	40	2840	191	767	209	783	529	103	25	13	14
9	80	40	2910	177	729	230	733	429	84	35	13	13
10	61	40	1530	173	690	288	643	381	71	46	12	12
11	56	34	1180	199	699	248	581	391	63	86	14	13
12	146	35	954	201	637	276	579	341	58	362	15	13
13	280	33	1880	191	555	623	542	2690	57	256	22	13
14	1630	31	2840	174	492	614	495	3180	67	141	19	14
15	1210	34	2010	159	453	510	446	1450	59	89	40	38
16	561	29	1330	149	427	610	393	983	49	87	64	76
17	387	29	1110	146	394	6930	355	780	44	63	80	142
18	294	32	1050	173	360	13000	326	763	41	68	64	57
19	228	32	856	771	327	7050	290	590	45	63	53	51
20	193	38	706	1580	424	5150	259	455	36	52	37	79
21	145	44	596	999	491	3540	250	371	32	39	30	188
22	135	43	511	754	406	2210	234	313	33	39	31	119
23	129	41	554	3690	354	1720	204	275	34	41	33	66
24	118	55	761	11500	327	1460	298	246	34	64	56	49
25	276	134	609	13500	314	1230	296	225	76	57	54	41
26	237	102	517	4690	336	1520	232	220	61	39	45	483
27	162	124	447	2050	322	1510	211	191	50	30	52	2500
28	118	330	398	1460	290	1180	255	171	44	29	39	1000
29	97	3960	359	1170	---	1040	418	160	42	29	25	492
30	86	9540	322	1030	---	1430	248	154	44	30	24	306
31	80	---	291	907	---	5300	---	200	---	37	26	---
TOTAL	7215	15253	33852	47594	15611	59588	23639	22415	2122	2239	1019	5897
MEAN	232.7	508.4	1092	1535	557.5	1922	788.0	723.1	70.73	72.23	32.87	196.6
MAX	1630	9540	2910	13500	1100	13000	5790	3180	160	362	80	2500
MIN	14	29	291	146	290	207	204	154	32	25	12	12
CFSM	0.57	1.25	2.68	3.76	1.37	4.71	1.93	1.77	0.17	0.18	0.08	0.48
IN.	0.66	1.39	3.09	4.34	1.42	5.43	2.16	2.04	0.19	0.20	0.09	0.54

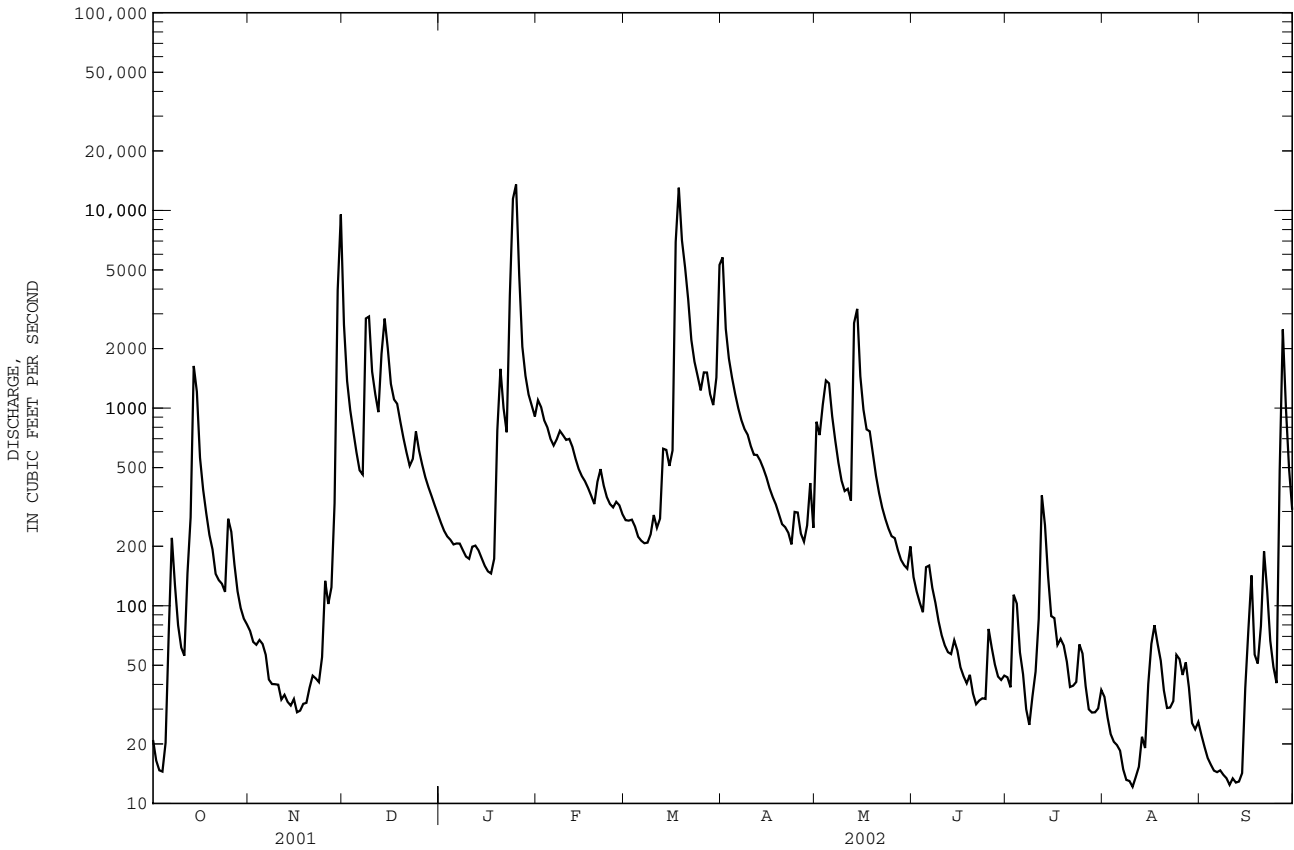
03433500 HARPETH RIVER AT BELLEVUE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2002, BY WATER YEAR (WY)

MEAN	113.3	365.6	832.9	1165	1280	1340	872.6	566.5	280.5	143.0	112.5	117.0
MAX	953	1678	3952	4305	3606	4263	2579	3232	1834	827	663	1685
(WY)	1976	1987	1927	1937	1950	1975	1927	1984	1928	1989	1926	1979
MIN	1.90	10.4	32.3	40.5	90.2	167	138	38.7	13.1	15.6	5.76	1.28
(WY)	1932	1940	1940	1940	1941	1941	1967	1941	1988	1954	1954	1948

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1920 - 2002	
ANNUAL TOTAL	201710		236444		595.7	
ANNUAL MEAN	552.6		647.8		1157	
HIGHEST ANNUAL MEAN					137	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	14100	Feb 17	13500	Jan 25	32400	Mar 13 1975
LOWEST DAILY MEAN	14	Oct 4	12	Aug 10	0.00	Oct 5 1922
ANNUAL SEVEN-DAY MINIMUM	22	Sep 29	13	Sep 8	0.07	Oct 4 1922
MAXIMUM PEAK FLOW			14400		40000	
MAXIMUM PEAK STAGE			17.69		a24.34	
INSTANTANEOUS LOW FLOW			b11		c0.00	
ANNUAL RUNOFF (CFSM)	1.35		1.59		1.46	
ANNUAL RUNOFF (INCHES)	18.39		21.56		19.84	
10 PERCENT EXCEEDS	1160		1430		1380	
50 PERCENT EXCEEDS	173		207		190	
90 PERCENT EXCEEDS	35		28		17	

- a From floodmarks.
- b Also occurred Sept. 12.
- c Also occurred Oct. 6-10, 1922.



CUMBERLAND RIVER BASIN

0343450 HARPETH RIVER NEAR KINGSTON SPRINGS, TN

LOCATION.--Lat 36°07'19", long 87°05'56", Cheatham County, Hydrologic Unit 05130204, on right bank 400 ft upstream from bridge on U.S. Highway 70, 1.7 mi northeast of Kingston Springs, 3.0 mi downstream from Turnbull Creek, and at mile 32.4.

DRAINAGE AREA.--681 mi², includes 15 mi² without surface drainage.

PERIOD OF RECORD.--October 1924 to current year. Prior to July 1925 monthly discharge only, published in WSP 1306.

REVISED RECORDS.--WSP 953: 1927, 1933, 1935-36. WSP 1033: 1927(M), 1932-33(M), 1935(M), 1937(M). WSP 1706: 1945(P). WSP 2110: Drainage area.

GAGE.--Data collection platform. Datum of gage is 447.04 ft above NGVD of 1929. July 8, 1925, to Jan. 22, 1939, nonrecording gage at site 150 ft downstream, and Jan. 22, 1939, to July 26, 1988, water-stage recorder at present site at datum 1.0 ft higher.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1897, that of Jan. 7, 1946. Flood of March 1902 reached a stage about 3 ft lower than that of Jan. 7, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 30	unknown	18,100	20.46	Mar 18	unknown	*28,900	*25.10
Jan 24	unknown	17,900	20.32	Mar 31	1630	10,900	14.32
Jan 25	1900	14,000	17.36				

Minimum discharge, 29 ft³/s, Sept. 12, 13.

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	66	149	6030	479	2150	515	8760	1070	286	154	114	63
2	60	142	2620	435	2110	490	4370	1340	231	135	103	76
3	51	138	1870	410	1770	488	2910	1180	209	269	91	59
4	45	132	1460	380	1610	454	2200	1600	193	340	79	51
5	51	127	1160	370	1400	422	1800	2020	189	241	72	48
6	175	125	949	372	1270	394	1530	1370	1670	177	68	42
7	158	121	856	366	1290	376	1350	1050	653	144	61	42
8	255	111	2360	346	1430	363	1210	830	396	121	57	40
9	178	107	4680	328	1390	463	1140	675	320	e150	53	39
10	130	104	2610	321	e1280	647	1020	582	274	e180	50	37
11	108	100	1920	388	e1150	548	910	565	242	461	59	36
12	253	98	1600	389	e1300	590	888	515	221	275	72	32
13	439	95	4170	364	e1050	855	854	3410	207	592	60	31
14	2390	95	4530	343	917	1150	801	5570	211	394	64	33
15	2450	93	3620	317	836	959	728	2450	199	264	100	35
16	1120	92	2430	298	784	1000	647	1580	185	204	133	97
17	653	91	1990	287	727	5610	576	1190	171	180	253	136
18	440	88	1940	349	658	e18000	537	1130	158	154	155	172
19	341	93	1610	1160	593	9490	504	946	144	142	123	107
20	284	104	1330	2500	719	7770	457	754	144	130	108	108
21	244	104	1110	1830	889	5700	416	618	137	122	99	284
22	212	97	962	1370	777	3810	411	526	125	116	82	256
23	189	98	1090	3140	670	2860	370	463	118	155	73	170
24	175	119	1270	e14500	603	2290	500	418	122	202	96	119
25	327	229	1160	e17000	562	1890	671	379	440	148	115	97
26	394	234	978	7740	637	2380	447	415	362	145	134	705
27	296	1280	863	3560	634	2520	386	364	214	120	113	6240
28	233	860	765	2650	560	1930	370	315	226	102	88	2170
29	193	8250	687	2140	---	1660	541	291	182	112	86	1040
30	172	13800	600	1960	---	1870	458	273	156	123	71	643
31	159	---	534	1910	---	7370	---	266	---	134	62	---
TOTAL	12241	27276	59754	68002	29766	84864	37762	34155	8385	6186	2894	13008
MEAN	394.9	909.2	1928	2194	1063	2738	1259	1102	279.5	199.5	93.35	433.6
MAX	2450	13800	6030	17000	2150	18000	8760	5570	1670	592	253	6240
MIN	45	88	534	287	560	363	370	266	118	102	50	31
MED	212	109	1460	410	903	1150	699	754	208	154	86	86
CFSM	0.58	1.34	2.83	3.22	1.56	4.02	1.85	1.62	0.41	0.29	0.14	0.64
IN.	0.67	1.49	3.26	3.71	1.63	4.64	2.06	1.87	0.46	0.34	0.16	0.71

e Estimated

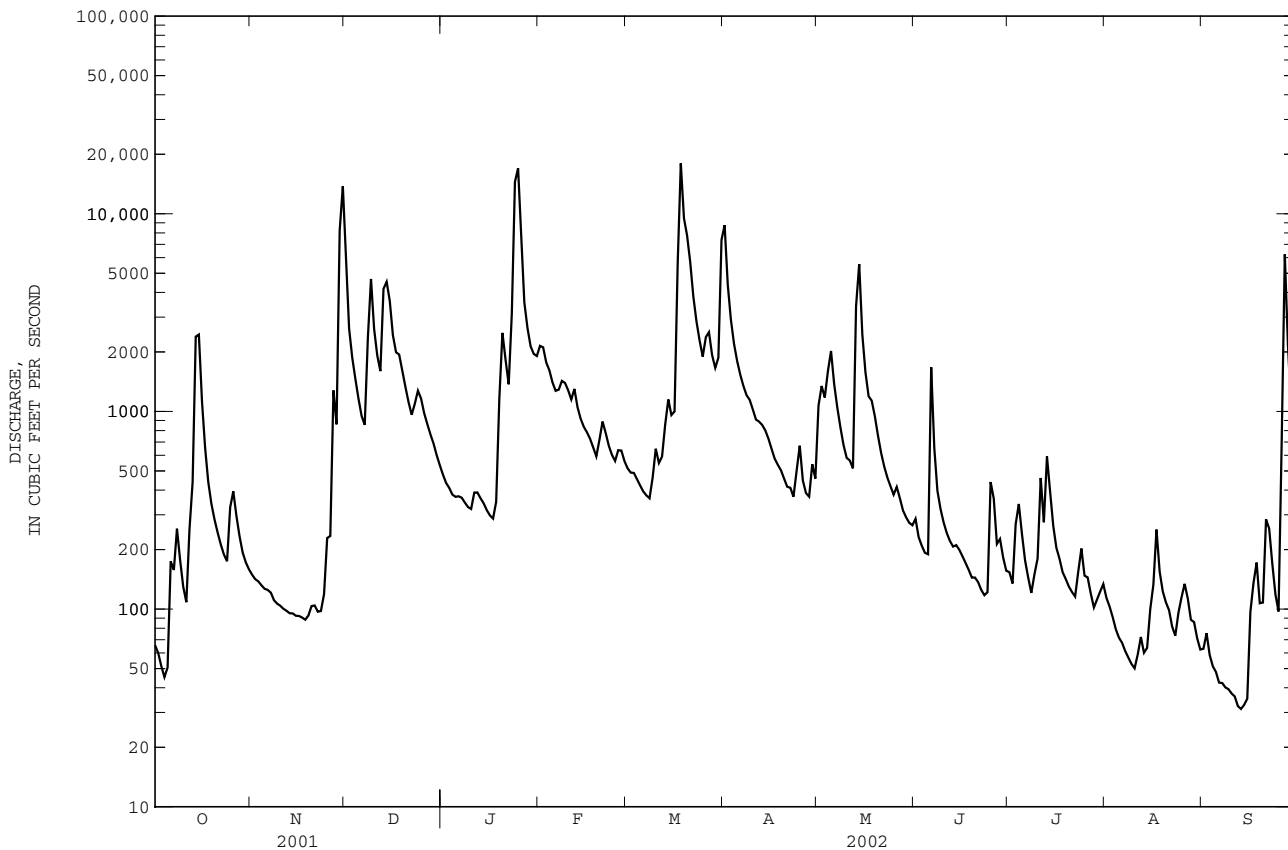
03434500 HARPETH RIVER NEAR KINGSTON SPRINGS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	226.3	615.8	1305	1867	2050	2159	1475	1020	522.9	270.8	209.7	214.3
MAX	1516	2761	6274	6975	6078	6806	3942	5107	2849	1071	1099	2530
(WY)	1976	1980	1927	1937	1950	1975	1927	1984	1928	1989	1926	1979
MIN	28.9	63.2	94.9	116	187	279	269	99.3	59.0	62.7	38.5	25.0
(WY)	1932	1955	1936	1940	1941	1941	1967	1941	1988	1954	1954	1939

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1925 - 2002
ANNUAL TOTAL	322836	384293	
ANNUAL MEAN	884.5	1053	988.2
HIGHEST ANNUAL MEAN			2000 1973
LOWEST ANNUAL MEAN			41.3 1925
HIGHEST DAILY MEAN	16800 Feb 17	18000 Mar 18	43100 Feb 14 1948
LOWEST DAILY MEAN	45 Oct 4	31 Sep 13	16 Sep 28 1939
ANNUAL SEVEN-DAY MINIMUM	55 Sep 13	35 Sep 9	18 Sep 22 1939
MAXIMUM PEAK FLOW		28000 Jan 25	60000 Jan 7 1946
MAXIMUM PEAK STAGE		a25.10 Jan 25	b32.20 Jan 7 1946
INSTANTANEOUS LOW FLOW		c29 Sep 12	12 Sep 18 1939
ANNUAL RUNOFF (CFSM)	1.30	1.55	1.45
ANNUAL RUNOFF (INCHES)	17.64	20.99	19.72
10 PERCENT EXCEEDS	1930	2370	2230
50 PERCENT EXCEEDS	277	380	348
90 PERCENT EXCEEDS	89	87	71

- a From high-water mark.
- b From high-water mark in gage house.
- c Also occurred Sept. 13.



CUMBERLAND RIVER BASIN

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 36°19'22", long 87°13'42", Cheatham County, Hydrologic Unit 05130205, on left bank 0.4 mi downstream from Cheatham Dam, 2.0 mi southwest of Neptune, 2.6 mi upstream from Half Pone Creek, 9.7 mi west of Ashland City, and at mile 148.4.

DRAINAGE AREA.--14,163 mi².

PERIOD OF RECORD.--February 1993 to September 1997, October 1998 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 1993 to September 1997, October 1998 to current year.

pH: February 1993 to September 1997, October 1998 to current year.

WATER TEMPERATURE: February 1993 to September 1997, October 1998 to current year.

DISSOLVED OXYGEN: February 1993 to September 1997, October 1998 to current year.

INSTRUMENTATION.--Data collection platform and water-quality monitor.

REMARKS.--Flow regulated by Cheatham Dam and other reservoirs above station. Interruptions in the record were due to instrument malfunctions. Records for water temperature are rated excellent, specific conductance are rated good except for the period from June to Sept. rated poor, p.H. records are rated fair and dissolved oxygen is rated poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 298 microsiemens, May 4, 1995; minimum, 152 microsiemens, Jan. 23, 1999.

pH: Maximum, 9.0 units, March 11, 13, 2002; minimum, 6.0 units, June 13, 1993.

WATER TEMPERATURE: Maximum, 28.4°C, Aug. 2, 3, 1995; minimum, 2.3°C, Feb. 6, 1996.

DISSOLVED OXYGEN: Maximum, 16.0 mg/L, Jan. 16, 2001; minimum, 3.7 mg/L, June 29, 1994.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 290 microsiemens, Dec. 26; minimum, 169 microsiemens, April 25.

pH: Maximum, 9.0 units, March 11, 13; minimum, 7.0 units, several days in September.

WATER TEMPERATURE: Maximum, 28.6°C, Aug. 6; minimum, 5.5°C, Jan. 7, 8.

DISSOLVED OXYGEN: Maximum, 15.5 mg/L, March 11.

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY	
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	217	211	213	251	240	244	239	205	223	277	272	274		
2	219	210	213	248	243	245	262	239	253	283	274	279		
3	213	211	212	248	238	243	262	256	260	286	275	282		
4	212	211	212	245	239	242	263	258	261	284	279	281		
5	214	211	212	246	242	244	267	263	265	279	273	276		
6	227	212	218	248	241	244	269	263	265	285	277	280		
7	222	215	220	246	238	242	269	263	265	286	278	282		
8	224	214	219	245	240	243	270	259	264	284	280	282		
9	222	214	218	248	243	246	288	264	274	287	281	284		
10	225	215	219	243	236	239	275	254	264	288	280	284		
11	219	215	217	247	238	240	277	266	271	281	277	279		
12	219	210	214	249	246	247	266	233	259	289	278	284		
13	229	215	223	249	244	246	260	233	246	284	275	280		
14	234	220	227	248	243	245	264	236	251	278	273	275		
15	237	213	224	248	246	247	265	256	261	276	272	274		
16	249	234	240	249	244	247	262	260	261	275	263	267		
17	243	233	236	244	235	238	266	259	262	265	261	263		
18	241	231	236	244	237	241	270	266	268	261	255	257		
19	237	229	234	246	244	244	270	267	268	259	250	256		
20	244	233	236	246	242	243	276	263	269	255	245	250		
21	251	244	249	243	239	242	278	275	277	258	243	250		
22	253	249	251	243	239	241	285	275	281	254	246	249		
23	253	248	250	242	236	239	284	274	278	254	236	242		
24	248	241	243	242	231	235	281	275	278	253	196	219		
25	245	236	241	245	231	236	280	277	278	228	190	212		
26	241	229	235	246	240	243	290	278	284	232	222	228		
27	247	234	243	255	240	244	284	276	280	245	217	233		
28	251	245	248	257	229	243	277	266	274	250	243	246		
29	250	234	241	230	184	214	274	266	269	244	239	242		
30	253	237	247	205	182	192	276	271	273	250	241	245		
31	248	243	245	---	---	---	277	272	274	242	235	239		
MONTH	253	210	230	257	182	240	290	205	266	289	190	261		

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	237	223	230	232	222	226	216	207	212	214	197	207
2	228	223	225	230	217	222	220	212	216	214	200	208
3	230	222	228	230	220	225	218	213	215	225	208	214
4	222	217	219	230	222	226	220	218	219	228	215	223
5	223	218	221	231	175	197	226	218	221	231	224	228
6	224	222	224	203	195	198	224	211	218	231	220	226
7	226	211	219	206	197	200	212	205	208	228	215	220
8	228	216	222	214	202	206	214	206	209	231	218	226
9	230	218	225	221	210	214	215	210	211	231	219	224
10	232	223	227	219	205	210	218	209	211	221	214	217
11	234	223	228	220	210	215	215	205	208	225	214	220
12	238	226	231	220	212	217	212	202	206	220	210	215
13	233	226	229	221	213	216	209	199	202	212	203	208
14	233	228	231	221	213	215	207	200	203	216	199	205
15	236	230	233	226	218	221	204	200	201	210	201	206
16	236	231	234	238	226	231	200	198	199	213	204	208
17	237	232	234	232	194	217	203	199	201	218	205	211
18	237	230	233	199	172	186	210	202	206	221	204	214
19	238	232	235	223	197	215	212	202	206	220	210	214
20	240	230	234	221	215	218	233	204	209	214	207	210
21	242	233	238	240	218	229	213	208	210	214	205	210
22	239	233	236	241	236	240	209	207	208	214	206	209
23	240	231	234	236	211	220	213	208	209	215	205	209
24	241	234	238	217	211	213	212	179	202	222	206	214
25	243	232	236	222	217	219	208	169	180	217	211	214
26	241	232	236	225	220	223	224	207	214	219	212	215
27	239	231	233	224	213	218	207	200	202	216	212	213
28	241	226	233	220	212	218	209	201	204	218	210	213
29	---	---	---	224	212	220	222	209	214	212	209	210
30	---	---	---	224	216	220	213	204	209	213	206	210
31	---	---	---	224	209	217	---	---	---	214	204	209
MONTH	243	211	230	241	172	217	233	169	208	231	197	214

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	213	205	208	224	220	221	217	209	212	199	194	197
2	215	208	210	223	218	221	221	211	216	201	195	198
3	215	209	212	225	216	220	219	213	216	201	195	198
4	217	211	213	223	219	221	220	214	217	200	195	198
5	220	215	217	229	218	222	225	215	219	198	192	195
6	224	214	217	224	219	222	223	215	219	199	192	196
7	240	224	232	224	218	221	227	216	220	199	195	197
8	229	222	226	221	216	218	225	216	220	201	197	199
9	237	226	231	224	215	219	225	219	221	209	200	204
10	237	230	233	220	215	218	230	222	226	205	199	201
11	239	233	235	223	214	217	231	223	227	206	197	202
12	247	237	241	225	220	223	227	220	223	203	195	200
13	238	228	236	223	214	219	224	219	221	197	192	194
14	239	231	233	221	216	218	227	203	220	195	188	190
15	244	233	238	225	218	220	207	204	206	192	187	190
16	234	229	232	230	224	227	207	202	203	192	186	190
17	232	227	229	230	224	226	209	203	206	209	186	198
18	230	225	228	231	221	226	213	204	208	209	206	208
19	232	226	229	238	223	229	210	206	208	211	206	208
20	232	226	229	224	213	220	212	208	209	210	206	209
21	233	225	228	220	216	218	213	209	211	213	208	210
22	232	223	227	223	217	220	215	211	213	212	205	210
23	229	224	226	223	213	218	217	215	216	213	203	208
24	231	225	227	216	212	215	218	212	215	213	207	210
25	232	225	228	225	214	217	213	210	212	216	206	211
26	231	224	227	222	213	217	213	200	206	212	184	203
27	230	220	226	217	211	214	205	198	202	203	173	189
28	230	223	225	216	207	212	206	200	203	213	199	208
29	229	222	224	223	211	216	202	197	200	223	210	219
30	225	219	221	217	209	213	201	195	199	223	208	216
31	---	---	---	213	206	210	201	195	198	---	---	---
MONTH	247	205	226	238	206	219	231	195	213	223	173	202

CUMBERLAND RIVER BASIN

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

PH, WH, FIELD, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.2	7.9	8.0	7.8	7.4	7.2	8.0	8.0	7.8	7.8	8.5	8.3
2	8.0	7.7	8.0	7.8	7.5	7.4	8.1	8.0	7.8	7.8	8.5	8.4
3	8.1	7.9	7.9	7.7	7.5	7.4	8.1	8.0	7.9	7.8	8.5	8.4
4	8.0	7.9	7.9	7.7	7.5	7.5	8.1	8.0	7.9	7.9	8.7	8.4
5	8.0	7.9	7.8	7.7	7.5	7.5	8.2	8.1	7.9	7.9	8.7	8.4
6	8.0	7.8	7.8	7.7	7.6	7.5	8.1	8.0	7.9	7.9	8.8	8.6
7	7.9	7.7	7.9	7.7	7.6	7.5	8.2	8.0	7.9	7.9	8.9	8.7
8	7.9	7.6	7.9	7.7	7.6	7.5	8.2	8.1	7.9	7.9	8.9	8.7
9	7.8	7.6	7.9	7.8	7.6	7.5	8.2	8.1	7.9	7.9	8.8	8.7
10	7.9	7.6	8.0	7.7	7.6	7.5	8.3	8.2	7.9	7.9	8.9	8.8
11	7.9	7.7	7.8	7.5	7.6	7.6	8.4	8.3	8.0	7.9	9.0	8.8
12	7.8	7.6	7.8	7.5	7.6	7.6	8.3	8.3	8.0	7.9	8.9	8.8
13	7.7	7.6	7.8	7.7	7.6	7.6	8.4	8.3	8.0	8.0	8.9	8.8
14	7.8	7.5	7.8	7.7	7.6	7.5	8.5	8.3	8.0	8.0	8.9	8.8
15	7.8	7.6	7.8	7.7	7.6	7.6	8.4	8.3	8.0	8.0	9.0	8.8
16	7.9	7.7	7.8	7.7	7.6	7.6	8.6	8.3	8.1	8.0	8.9	8.8
17	8.0	7.9	7.8	7.6	7.6	7.6	8.5	8.4	8.1	8.0	8.8	8.2
18	8.1	7.9	7.8	7.6	7.7	7.7	8.6	8.4	8.1	8.0	8.2	7.8
19	8.0	7.9	7.7	7.5	7.7	7.6	8.6	8.4	8.2	8.1	7.9	7.8
20	8.1	7.9	7.7	7.6	7.7	7.7	8.5	8.3	8.2	8.1	7.8	7.8
21	8.0	7.8	7.8	7.6	7.7	7.7	8.4	8.3	8.2	8.1	7.8	7.8
22	7.9	7.7	7.8	7.6	7.8	7.7	8.4	8.2	8.2	8.1	7.8	7.8
23	7.8	7.6	7.8	7.6	7.8	7.7	8.4	8.3	8.3	8.2	7.9	7.8
24	7.8	7.7	7.8	7.6	7.8	7.8	8.3	7.8	8.4	8.2	7.8	7.8
25	8.0	7.6	7.7	7.6	7.9	7.8	7.9	7.8	8.5	8.3	7.9	7.8
26	8.0	7.7	7.8	7.6	7.9	7.8	7.9	7.8	8.4	8.3	7.9	7.8
27	8.0	7.5	7.7	7.6	7.9	7.8	7.8	7.8	8.4	8.3	7.9	7.8
28	7.9	7.6	7.7	7.5	7.9	7.9	7.8	7.8	8.5	8.3	7.9	7.9
29	8.1	7.8	7.5	7.3	7.9	7.9	7.8	7.8	---	---	7.9	7.8
30	8.0	7.8	7.3	7.2	8.0	7.9	7.8	7.8	---	---	7.9	7.9
31	8.0	7.8	---	---	8.1	7.9	7.8	7.8	---	---	7.9	7.9
MONTH	8.2	7.5	8.0	7.2	8.1	7.2	8.6	7.8	8.5	7.8	9.0	7.8
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.9	7.8	7.8	7.7	7.8	7.4	8.1	7.8	7.8	7.5	7.6	7.4
2	7.9	7.8	7.8	7.6	7.7	7.4	8.1	7.8	7.7	7.5	7.5	7.4
3	7.9	7.8	7.7	7.6	7.9	7.5	8.1	7.9	7.7	7.5	7.5	7.3
4	7.8	7.8	7.7	7.6	7.9	7.7	8.0	7.8	7.8	7.5	7.6	7.3
5	7.8	7.8	7.7	7.6	7.8	7.5	7.9	7.8	7.7	7.5	7.8	7.5
6	7.8	7.8	7.8	7.7	7.7	7.4	7.9	7.7	7.8	7.4	7.5	7.4
7	7.8	7.8	7.7	7.7	7.5	7.2	8.0	7.7	7.7	7.4	7.4	7.2
8	7.9	7.8	7.7	7.6	7.4	7.2	7.9	7.8	7.7	7.4	7.3	7.1
9	7.9	7.9	7.8	7.7	7.5	7.4	8.0	7.4	7.6	7.3	7.2	7.0
10	8.0	7.9	7.8	7.7	7.5	7.3	8.0	7.7	7.6	7.3	7.1	7.0
11	8.0	7.9	7.8	7.7	7.4	7.4	7.8	7.6	7.4	7.2	7.1	7.0
12	8.0	7.9	8.0	7.8	7.5	7.4	7.7	7.5	7.6	7.4	7.2	7.0
13	8.0	7.9	7.9	7.7	7.7	7.5	7.6	7.4	7.7	7.4	7.2	7.0
14	8.0	7.9	7.7	7.6	7.6	7.5	7.7	7.4	7.7	7.3	7.3	7.0
15	8.0	7.9	7.7	7.7	7.6	7.6	7.7	7.6	7.7	7.4	7.2	7.0
16	8.1	7.9	7.8	7.7	7.6	7.5	7.7	7.4	7.7	7.4	7.4	7.0
17	8.2	7.9	7.7	7.7	7.6	7.5	7.9	7.7	7.5	7.2	7.7	7.2
18	8.2	8.1	7.7	7.6	7.6	7.5	8.0	7.7	7.4	7.2	7.6	7.4
19	8.2	8.0	7.8	7.7	7.6	7.5	8.0	7.6	7.5	7.3	7.6	7.4
20	8.1	7.9	7.8	7.7	7.7	7.5	7.8	7.6	7.5	7.2	7.7	7.5
21	8.2	7.9	7.8	7.7	7.8	7.7	7.9	7.7	7.8	7.3	7.5	7.5
22	8.3	8.0	7.8	7.7	8.0	7.7	7.8	7.5	8.1	7.5	7.6	7.4
23	8.4	8.2	7.9	7.7	8.0	7.8	7.8	7.6	7.9	7.7	7.8	7.5
24	8.3	7.8	8.0	7.8	7.9	7.8	7.7	7.4	7.8	7.6	7.8	7.7
25	7.8	7.6	8.0	7.9	7.8	7.7	7.8	7.5	7.6	7.5	7.7	7.6
26	7.7	7.5	8.1	7.8	7.7	7.6	7.7	7.5	7.5	7.3	7.7	7.5
27	7.9	7.7	8.1	8.0	7.7	7.6	7.6	7.5	7.4	7.2	7.6	7.5
28	8.0	7.8	8.1	8.0	7.7	7.6	7.6	7.4	7.4	7.3	7.7	7.5
29	8.0	7.8	8.1	7.8	7.8	7.6	7.6	7.4	7.5	7.4	7.6	7.5
30	8.0	7.8	7.8	7.7	7.9	7.7	7.6	7.4	7.5	7.3	7.6	7.5
31	---	---	7.8	7.6	---	---	7.7	7.4	7.5	7.4	---	---
MONTH	8.4	7.5	8.1	7.6	8.0	7.2	8.1	7.4	8.1	7.2	7.8	7.0

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	21.0	20.2	20.4	15.6	15.4	15.5	13.8	13.6	13.7	7.7	7.1	7.4
2	20.8	19.8	20.2	16.1	15.3	15.3	13.6	13.4	13.5	7.4	7.1	7.2
3	20.6	19.9	20.2	15.9	15.6	15.6	13.4	13.1	13.2	7.1	6.4	6.8
4	20.4	20.0	20.2	16.0	15.1	15.7	13.4	13.2	13.3	6.7	6.1	6.4
5	20.4	20.1	20.3	16.0	15.5	15.8	13.4	13.3	13.4	6.4	6.0	6.2
6	20.1	19.6	19.8	16.0	15.4	15.7	13.6	13.4	13.5	6.1	6.0	6.1
7	19.6	19.1	19.4	15.8	15.4	15.6	13.7	13.6	13.7	6.0	5.5	5.8
8	19.4	19.0	19.2	15.9	15.3	15.6	13.9	13.6	13.8	5.9	5.5	5.7
9	19.3	18.8	19.1	16.1	15.3	15.7	13.6	13.5	13.6	6.0	5.6	5.8
10	19.4	18.8	19.0	15.6	14.9	15.3	13.5	13.1	13.3	6.2	6.0	6.1
11	19.0	18.7	18.9	15.3	14.8	15.0	13.1	12.5	12.8	6.2	6.1	6.2
12	18.9	18.6	18.8	15.1	14.6	14.9	12.5	12.3	12.4	6.5	6.1	6.3
13	19.0	18.8	18.9	15.1	14.6	14.8	13.0	12.3	12.6	6.4	6.1	6.3
14	19.2	18.9	19.0	15.1	14.6	14.8	13.4	13.0	13.2	6.9	6.4	6.5
15	19.1	18.9	19.0	14.9	14.7	14.8	13.4	13.0	13.2	6.8	6.3	6.6
16	18.9	18.2	18.5	14.9	14.5	14.6	13.0	12.9	12.9	6.8	6.6	6.7
17	18.2	17.6	17.9	14.9	14.4	14.7	13.1	12.9	13.0	6.8	6.3	6.7
18	17.6	17.3	17.4	14.8	14.4	14.7	13.1	13.0	13.0	6.9	6.5	6.7
19	17.4	17.1	17.2	14.8	14.4	14.7	13.0	12.6	12.8	6.9	6.6	6.8
20	17.4	17.1	17.3	14.6	14.1	14.4	12.6	12.0	12.2	6.8	6.6	6.7
21	17.4	17.0	17.2	14.3	13.8	14.0	12.0	11.6	11.8	7.1	6.8	6.9
22	17.5	17.0	17.3	13.9	13.5	13.7	11.7	11.2	11.4	7.1	6.9	7.0
23	17.9	17.3	17.5	14.0	13.6	13.8	11.3	10.7	11.1	8.0	7.1	7.5
24	18.1	17.7	17.9	14.2	13.9	14.0	10.7	10.2	10.5	9.6	8.0	9.0
25	18.2	17.7	17.9	14.0	13.9	14.0	10.3	9.9	10.1	9.6	8.2	8.8
26	17.8	17.1	17.5	14.0	13.8	13.9	10.0	9.6	9.8	8.9	8.2	8.5
27	17.1	16.6	16.9	14.1	13.9	14.0	9.6	8.9	9.2	9.1	8.9	9.0
28	16.9	16.3	16.6	14.1	13.8	14.0	9.1	8.6	8.8	9.3	8.9	9.1
29	16.6	16.3	16.4	14.1	13.6	13.9	8.9	8.2	8.6	10.0	9.3	9.7
30	16.4	15.8	16.1	14.0	13.8	13.9	8.4	7.7	8.1	10.6	10.0	10.3
31	15.9	15.5	15.8	---	---	---	7.9	7.3	7.6	11.1	10.6	10.8
MONTH	21.0	15.5	18.3	16.1	13.5	14.7	13.9	7.3	11.9	11.1	5.5	7.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	11.4	11.1	11.2	8.4	8.0	8.2	11.7	11.3	11.5	18.4	18.1	18.3
2	11.3	10.8	11.0	8.4	8.1	8.2	12.1	11.4	11.7	18.4	18.0	18.2
3	10.8	10.3	10.5	8.2	7.7	8.0	12.1	11.9	12.0	18.0	17.5	17.7
4	10.3	9.6	9.9	8.0	7.4	7.6	12.1	11.8	11.9	17.6	17.2	17.4
5	9.6	9.2	9.4	7.9	7.1	7.6	11.9	11.5	11.7	17.8	17.2	17.5
6	9.2	8.6	8.8	8.2	7.8	8.0	12.0	11.5	11.8	18.0	17.5	17.8
7	8.6	8.3	8.4	8.8	8.2	8.4	12.1	11.6	11.9	18.4	17.8	18.1
8	8.3	8.1	8.2	9.1	8.5	8.8	12.4	12.0	12.2	18.8	18.1	18.4
9	8.5	8.0	8.3	9.5	9.2	9.4	12.6	12.3	12.5	18.8	18.4	18.6
10	8.8	8.4	8.6	9.5	9.1	9.3	13.1	12.4	12.7	18.7	18.2	18.4
11	8.9	8.7	8.8	10.1	9.2	9.6	13.3	12.7	13.0	18.5	17.8	18.1
12	9.0	8.6	8.9	9.7	9.6	9.7	13.8	13.2	13.4	18.8	18.3	18.5
13	8.9	8.8	8.8	10.0	9.6	9.7	14.4	13.7	13.9	18.6	18.0	18.4
14	8.8	8.6	8.7	10.5	9.8	10.1	14.7	14.3	14.5	18.0	17.6	17.8
15	8.7	8.6	8.7	11.0	10.5	10.7	15.4	14.6	15.0	17.7	17.2	17.4
16	8.9	8.6	8.7	11.2	11.0	11.1	16.0	15.3	15.7	17.5	17.2	17.4
17	8.9	8.7	8.8	11.9	10.9	11.4	16.6	15.9	16.2	17.6	17.4	17.5
18	9.0	8.7	8.9	12.4	11.9	12.2	17.5	16.6	17.1	17.4	16.9	17.1
19	9.2	8.8	9.0	12.2	12.0	12.1	17.9	17.2	17.5	17.0	16.5	16.7
20	9.5	9.1	9.3	12.4	12.2	12.3	17.8	17.4	17.6	16.5	16.2	16.3
21	9.7	9.3	9.5	12.3	11.8	12.1	18.6	17.6	18.0	16.4	15.9	16.2
22	9.7	9.4	9.6	11.8	11.3	11.5	18.5	17.9	18.3	16.7	16.0	16.3
23	9.5	9.2	9.4	11.3	10.9	11.1	18.5	18.2	18.4	16.9	16.4	16.7
24	9.6	9.2	9.4	11.4	11.0	11.2	18.5	17.2	17.9	17.4	16.8	17.1
25	9.9	9.5	9.6	11.5	11.2	11.3	17.4	16.9	17.1	17.9	17.3	17.6
26	9.8	9.0	9.5	11.4	11.1	11.3	17.4	16.8	17.1	18.2	17.6	17.9
27	9.0	8.6	8.8	11.1	10.8	11.0	17.5	17.4	17.4	18.7	18.0	18.3
28	8.6	8.4	8.6	11.0	10.6	10.8	18.0	17.5	17.7	19.9	18.6	18.7
29	---	---	---	11.6	10.8	11.2	18.0	17.7	17.9	18.4	18.9	19.2
30	---	---	---	11.7	11.4	11.6	18.3	18.0	18.2	20.0	19.4	19.7
31	---	---	---	11.8	11.5	11.6	---	---	---	20.5	19.8	20.1
MONTH	11.4	8.0	9.2	12.4	7.1	10.2	18.6	11.3	15.1	20.5	15.9	17.9

CUMBERLAND RIVER BASIN

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	21.2	20.4	20.7	27.4	26.7	27.1	28.2	27.8	28.0	27.4	26.8	27.1
2	21.6	20.8	21.1	27.4	27.1	27.2	28.0	27.3	27.6	27.4	27.0	27.2
3	22.3	21.6	21.8	27.4	27.2	27.3	27.8	27.4	27.5	27.6	27.1	27.3
4	22.9	22.1	22.4	27.8	27.3	27.5	28.1	27.4	27.6	27.8	27.3	27.5
5	22.9	22.5	22.7	27.9	27.6	27.7	28.2	27.8	28.0	27.9	27.4	27.7
6	22.8	22.5	22.6	28.0	27.5	27.7	28.6	28.0	28.2	27.6	27.1	27.3
7	23.1	22.7	22.8	28.2	27.7	27.9	28.4	27.7	28.0	27.6	27.0	27.2
8	23.1	22.6	22.8	28.2	27.9	28.0	27.8	27.3	27.6	27.2	26.7	26.9
9	23.6	22.9	23.2	28.1	27.7	28.0	27.6	27.0	27.3	26.7	26.2	26.4
10	23.9	23.3	23.5	28.4	28.0	28.1	27.0	26.4	26.7	26.4	25.8	26.1
11	23.6	23.3	23.4	28.1	27.7	27.9	27.1	26.4	26.7	26.4	26.1	26.3
12	24.4	23.2	23.6	27.7	26.8	27.4	27.5	26.9	27.2	26.6	26.0	26.3
13	25.3	24.3	24.7	26.8	26.6	26.7	27.8	27.3	27.5	26.1	25.8	25.9
14	25.1	24.6	24.9	27.1	26.5	26.8	27.7	27.4	27.5	26.1	25.8	25.9
15	24.9	24.2	24.6	27.3	27.0	27.1	27.6	27.2	27.4	25.9	25.6	25.8
16	24.8	24.6	24.6	27.3	26.8	27.1	27.6	26.9	27.3	26.4	25.6	25.8
17	24.8	24.4	24.5	27.5	27.2	27.3	27.1	26.7	26.9	26.3	25.7	25.9
18	24.7	24.3	24.5	27.8	27.2	27.5	27.1	26.8	26.9	26.3	26.1	26.2
19	25.0	24.3	24.6	27.5	27.0	27.3	27.2	26.7	26.9	26.5	26.1	26.3
20	25.2	24.7	25.0	27.7	27.2	27.5	27.3	26.9	27.1	26.6	26.1	26.3
21	26.1	25.1	25.5	27.8	27.6	27.7	27.8	27.0	27.3	26.1	25.5	25.8
22	26.7	25.8	26.2	27.7	27.4	27.5	28.0	27.5	27.7	25.6	25.3	25.4
23	26.7	26.2	26.4	27.5	27.2	27.3	27.9	27.6	27.7	25.5	25.0	25.2
24	27.0	26.4	26.6	27.6	27.1	27.3	27.9	27.6	27.7	25.2	24.7	25.0
25	27.2	26.6	26.8	27.9	27.4	27.6	27.6	27.4	27.6	24.8	24.4	24.6
26	26.7	26.4	26.5	27.8	27.5	27.7	27.6	27.3	27.5	24.4	22.9	23.7
27	26.6	26.2	26.4	27.8	27.4	27.5	27.3	27.0	27.1	22.9	21.5	21.8
28	26.5	26.0	26.3	28.2	27.6	27.9	27.0	26.7	26.9	22.5	21.6	22.1
29	26.8	26.3	26.5	28.4	27.9	28.1	26.8	26.5	26.6	22.5	22.1	22.3
30	27.0	26.5	26.7	28.3	27.8	28.1	26.6	26.2	26.4	22.6	22.2	22.5
31	---	---	---	28.0	27.6	27.8	27.0	26.4	26.7	---	---	---
MONTH	27.2	20.4	24.4	28.4	26.5	27.5	28.6	26.2	27.3	27.9	21.5	25.7

OXYGEN DISSOLVED, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	10.0	8.2	8.7	9.5	9.0	9.2	9.0	8.3	8.6	12.2	11.5	11.9
2	8.9	7.8	8.4	9.9	8.8	9.3	9.3	8.7	9.1	12.3	11.7	11.9
3	9.1	8.0	8.7	9.6	8.7	9.2	9.6	9.1	9.4	12.4	11.5	12.0
4	9.3	8.5	8.8	9.9	9.1	9.4	9.7	9.4	9.6	12.4	11.5	12.0
5	8.9	7.1	8.5	9.5	9.0	9.2	9.8	9.4	9.6	12.5	12.0	12.2
6	9.2	7.1	8.7	9.5	8.8	9.1	9.9	9.6	9.8	12.4	11.9	12.1
7	9.2	8.7	9.1	9.5	8.8	9.2	9.8	9.5	9.7	12.5	11.8	12.2
8	9.6	8.9	9.2	9.5	9.1	9.2	10.0	9.4	9.6	12.7	12.0	12.4
9	10.0	8.9	9.4	10.0	9.0	9.3	9.7	9.1	9.5	12.9	12.3	12.6
10	---	---	---	10.4	9.2	9.6	9.6	9.2	9.5	12.8	12.3	12.5
11	---	---	---	10.1	9.0	9.6	9.5	9.0	9.2	12.9	12.4	12.6
12	---	---	---	9.8	9.2	9.5	9.8	9.0	9.3	12.7	12.4	12.6
13	---	---	---	9.9	9.3	9.6	9.8	9.4	9.5	13.1	12.5	12.8
14	---	---	---	10.1	9.2	9.6	9.5	9.1	9.2	13.7	12.5	13.0
15	---	---	---	10.2	9.4	9.6	9.3	9.0	9.2	13.0	12.3	12.7
16	---	9.8	---	10.0	9.1	9.5	9.5	9.2	9.3	13.8	12.6	13.2
17	10.3	10.0	10.1	10.6	9.4	9.9	9.8	9.4	9.6	13.5	13.0	13.3
18	10.7	10.0	10.3	11.3	9.5	9.9	9.8	9.6	9.8	14.0	13.0	13.5
19	10.7	9.9	10.3	10.3	9.3	9.7	9.8	9.5	9.6	13.6	13.0	13.2
20	11.0	9.8	10.3	10.4	9.7	9.9	10.0	9.5	9.8	13.2	12.5	12.9
21	10.0	9.3	9.6	10.4	9.6	10	10.0	9.7	9.9	12.8	12.3	12.6
22	9.6	8.3	9.1	10.4	9.7	10.0	10.2	9.8	10.0	12.8	12.3	12.6
23	9.5	7.9	8.5	10.8	10.0	10.2	10.6	9.9	10.2	13.0	12.6	12.8
24	9.3	8.0	8.8	10.5	9.9	10.2	11.1	10.3	10.6	12.6	10.5	11.4
25	9.9	8.2	9.1	10.6	10.0	10.2	11.0	10.5	10.6	11.7	10.7	11.4
26	10.7	8.2	9.6	10.5	10.0	10.2	10.9	10.5	10.7	11.7	11.0	11.3
27	10.0	8.4	9.5	10.0	9.7	9.8	11.1	10.6	10.8	11.5	11.0	11.3
28	9.9	8.3	9.1	9.7	9.2	9.5	11.2	10.8	11.0	11.7	10.9	11.2
29	---	8.8	---	9.5	8.9	9.3	11.7	10.8	11.2	11.0	10.4	10.8
30	---	---	---	8.9	8.3	8.6	11.7	11.2	11.5	10.6	10.3	10.4
31	9.4	9.0	9.3	---	---	---	12.0	11.1	11.7	10.4	10.4	10.4
MONTH	11.0	7.1	9.2	11.3	8.3	9.6	12.0	8.3	9.9	14.0	10.3	12.2

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

OXYGEN DISSOLVED, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	10.5	10.2	10.3	12.9	12.3	12.7	11.8	11.3	11.6	9.5	8.7	9.2
2	10.4	10.2	10.3	12.9	12.8	12.8	11.7	11.4	11.6	9.9	8.6	8.9
3	10.7	10.4	10.6	12.9	12.6	12.8	12.0	11.4	11.6	8.7	8.4	8.5
4	10.6	10.4	10.5	13.9	12.7	13.1	12.2	12.0	12.1	8.5	8.2	8.4
5	10.7	10.6	10.6	13.7	12.9	13.4	12.3	11.6	12.1	9.0	8.2	8.6
6	10.8	10.7	10.8	14.3	13.5	13.9	12.1	11.9	12.0	10.0	8.5	8.9
7	10.9	10.8	10.8	14.9	13.9	14.4	12.1	12.0	12.1	9.1	8.5	8.8
8	11.0	10.8	10.9	15.0	14.3	14.7	12.1	12.0	12.1	8.9	8.2	8.5
9	11.1	11.0	11.0	14.7	14.2	14.4	12.1	12.0	12.1	9.3	8.2	8.7
10	11.1	10.9	11.0	14.6	14.0	14.3	12.1	12.0	12.0	9.2	8.4	8.7
11	11.3	11.1	11.2	15.5	14.1	14.5	12.1	12.0	12.0	9.2	8.3	8.7
12	11.2	11.0	11.1	14.9	14.1	14.4	12.1	11.0	11.7	9.6	8.7	9.2
13	11.5	11.2	11.3	14.9	13.9	14.3	11.1	10.8	11.0	9.5	8.5	9.0
14	11.6	11.4	11.5	15.0	14.0	14.4	11.1	10.7	10.9	9.1	7.8	8.2
15	11.6	11.5	11.6	15.0	14.1	14.5	11.2	10.8	11.0	9.9	9.0	9.5
16	11.8	11.6	11.7	14.3	13.4	13.9	11.5	10.9	11.2	10.2	9.1	9.4
17	11.8	11.6	11.7	13.5	11.7	12.6	11.8	10.9	11.4	9.1	8.4	8.7
18	11.9	11.6	11.8	11.8	10.2	10.8	11.7	11.1	11.5	8.5	8.1	8.3
19	12.1	11.8	11.9	11.1	10.8	11.0	11.7	10.4	11.2	8.9	8.0	8.5
20	12.0	11.7	11.9	10.8	10.5	10.6	11.2	10.4	10.8	9.3	8.8	9.1
21	12.1	11.8	12.0	10.9	10.6	10.8	11.3	10.4	10.9	9.2	8.6	8.9
22	12.1	11.8	11.9	11.1	10.9	11.0	11.1	10.5	10.8	8.8	8.4	8.6
23	12.3	11.9	12.1	11.5	11.1	11.4	11.4	10.7	11.0	9.3	8.3	8.8
24	12.5	12.1	12.3	11.9	11.3	11.5	11.0	9.7	10.4	9.5	8.6	9.0
25	12.8	12.2	12.5	12.1	11.9	12.0	9.7	9.3	9.5	9.7	9.0	9.3
26	12.6	12.2	12.4	12.1	11.8	11.9	9.5	8.6	8.8	9.9	8.7	9.2
27	12.5	12.2	12.4	12.3	11.9	12.0	9.4	8.6	9.1	9.9	9.2	9.6
28	12.9	12.3	12.6	12.3	12.2	12.3	9.7	8.9	9.3	9.7	9.0	9.4
29	---	---	---	12.3	11.8	12.2	9.9	9.1	9.6	10.1	9.2	9.7
30	---	---	---	12.3	12.2	12.2	10.8	9.5	9.8	9.7	9.2	9.4
31	---	---	---	12.2	11.8	12.0	---	---	---	9.3	8.6	9.0
MONTH	12.9	10.2	11.5	15.5	10.2	12.8	12.3	8.6	11.0	10.2	7.8	8.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.0	8.0	8.5	8.5	6.1	7.2	9.2	8.2	8.5	8.6	7.4	7.9
2	8.9	7.8	8.4	8.6	6.7	7.5	9.1	7.9	8.5	8.6	7.6	7.9
3	9.4	8.5	9.0	8.0	6.7	7.4	9.0	7.5	8.3	8.6	7.5	8.0
4	9.3	8.8	9.0	8.2	5.8	7.3	9.5	7.6	8.5	9.1	8.0	8.5
5	9.1	8.3	8.8	7.8	6.0	7.2	9.1	8.1	8.5	9.2	7.9	8.4
6	8.7	7.6	8.2	7.2	5.2	6.4	9.4	7.9	8.5	8.8	7.7	8.1
7	7.9	7.1	7.5	8.2	4.6	6.6	8.9	7.6	8.3	8.7	7.3	7.8
8	7.6	6.4	7.2	7.8	5.5	7.2	8.9	6.8	8.2	8.2	7.2	7.6
9	7.6	6.8	7.3	8.1	1.4	6.4	8.6	7.6	8.1	7.4	5.7	6.9
10	7.6	6.8	7.2	8.1	6.0	7.2	8.1	6.7	7.7	7.5	6.2	6.8
11	7.4	6.8	7.1	7.2	5.6	6.6	8.2	6.0	7.2	7.5	6.4	6.9
12	7.8	7.0	7.3	6.2	5.4	5.8	7.7	6.6	7.2	8.4	6.9	7.6
13	8.2	7.2	7.5	6.2	3.0	5.4	7.7	5.4	6.8	8.0	7.0	7.6
14	7.3	6.6	6.9	6.6	4.8	5.7	7.3	5.0	6.5	8.2	6.5	7.5
15	7.1	6.2	6.6	5.6	3.2	4.6	7.2	5.1	6.4	7.5	6.5	7.1
16	6.9	6.5	6.7	6.1	0.2	4.4	7.2	5.3	6.5	7.8	5.7	6.9
17	8.3	6.6	6.8	8.7	5.2	7.2	6.6	2.2	5.2	7.4	6.0	6.5
18	6.9	6.6	6.7	9.3	8.0	8.6	6.6	4.1	5.5	6.8	6.0	6.3
19	7.2	6.6	6.8	9.2	7.2	8.3	6.6	5.3	6.0	6.5	6.1	6.3
20	7.4	6.7	7.0	9.2	7.9	8.4	7.4	6.0	6.6	6.7	6.1	6.3
21	7.3	6.2	6.6	9.0	7.8	8.5	7.5	6.1	6.8	6.5	6.1	6.3
22	8.2	5.8	7.1	8.7	6.4	7.8	7.9	6.8	7.3	7.0	6.1	6.5
23	8.2	7.4	7.6	8.2	6.8	7.6	7.8	7.0	7.4	7.5	6.8	7.1
24	8.3	7.0	7.5	7.9	6.7	7.3	8.0	7.1	7.6	7.6	6.9	7.1
25	7.5	4.1	6.8	8.1	6.4	7.4	7.7	6.9	7.4	7.3	6.8	7.1
26	7.0	6.1	6.5	7.8	6.7	7.4	7.4	6.7	7.2	8.8	8.1	8.4
27	6.7	5.7	6.3	7.4	5.9	6.6	7.2	6.5	6.9	8.9	8.2	8.7
28	6.2	5.0	5.8	7.3	5.3	6.6	7.3	6.6	6.9	8.7	8.1	8.4
29	7.0	4.8	5.9	8.2	5.9	7.0	7.8	7.1	7.3	8.7	7.7	8.1
30	7.2	6.0	6.6	8.4	6.8	7.9	8.0	7.1	7.5	10.6	7.5	8.3
31	---	---	---	8.7	7.5	8.0	7.9	7.3	7.6	---	---	---
MONTH	9.4	4.1	7.2	9.3	0.2	7.0	9.5	2.2	7.3	10.6	5.7	7.4

CUMBERLAND RIVER BASIN

03435305 RED RIVER BELOW HIGHWAY 161 NEAR BARREN PLAINS, TN

LOCATION.--Lat 36°38'32", long 86°59'18", Robertson County, Hydrologic Unit 05130206, on left bank in pump house of Springfield water plant, 0.2 mi south of Kentucky-Tennessee state line, 0.7 mi below Highway 161 bridge, 4.8 mi northwest of Barren Plains.

DRAINAGE AREA.--549 mi², includes 246 mi² without surface drainage.

PERIOD OF RECORD.--October 1994 to current year. Occasional low-flow measurements, water years 1966-1967 at site 1.8 mi upstream.

GAGE.-- Data collection platform. Datum of gage is 440.00 ft above NGVD of 1929 (levels based on information provided by City of Springfield).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 30	0915	10,700	16.57	Mar 31	2315	5,050	11.30
Dec 13	1445	8,260	14.10	Apr 25	1245	4,830	11.12
Jan 24	2100	10,800	16.69	May 1	1745	6,600	12.66
Mar 18	0815	4,620	10.95	May 18	0930	*11,200	*17.14
Mar 20	2115	9,960	15.79	Sep 27	1500	9,450	15.25

Minimum daily discharge, 34 ft³/s, Oct. 2, 4, 5.

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	36	107	3670	687	1930	354	3570	3520	821	187	147	93
2	34	103	2340	631	1990	347	2410	3040	710	181	144	89
3	35	101	1820	593	1570	343	1910	1980	617	217	127	86
4	34	96	1500	555	1390	330	1550	1610	537	291	130	79
5	34	91	1260	522	1200	315	1340	1510	475	212	122	80
6	42	86	1110	511	1090	303	1200	1280	444	187	111	74
7	43	88	1090	498	1040	298	1080	1190	552	168	108	72
8	53	85	1750	464	968	292	1000	1070	458	170	102	70
9	53	83	2070	438	880	294	955	968	399	177	100	69
10	52	80	1480	424	818	305	873	921	364	263	95	71
11	48	80	1260	421	758	325	796	819	340	224	93	62
12	119	76	1150	424	703	317	836	748	328	212	159	66
13	182	75	5150	400	661	314	1370	1140	333	283	154	58
14	1140	77	3920	380	614	310	1500	2310	322	571	126	71
15	1160	71	2730	360	581	303	2610	1250	307	365	168	74
16	552	68	2140	341	560	308	1610	994	281	262	193	79
17	387	70	2220	330	531	1020	1280	2280	266	218	527	101
18	301	69	2240	328	496	3660	1130	9380	254	200	339	112
19	253	72	1830	326	471	2440	1010	4000	242	188	329	100
20	215	73	1550	342	474	5610	907	2530	231	184	212	119
21	189	71	1320	361	471	5400	827	1990	217	174	162	164
22	167	72	1180	367	451	2780	771	1660	208	169	137	212
23	154	74	1470	2240	416	2140	688	1440	206	254	125	143
24	145	115	1710	6730	393	1770	740	e1230	201	334	117	112
25	150	159	1390	5660	380	1520	3300	e970	201	353	113	100
26	172	207	1220	2940	383	2540	1900	e1120	197	247	143	351
27	164	844	1110	2290	397	2770	1350	e1380	196	211	167	7940
28	139	1680	1020	1910	384	1980	1190	e1020	194	185	114	4880
29	124	3150	927	1660	---	1700	1060	930	196	171	104	1750
30	115	8950	828	1500	---	1640	897	926	192	170	97	1250
31	113	---	743	1450	---	2480	---	905	---	155	98	---
TOTAL	6405	16973	55198	36083	22000	44508	41660	56111	10289	7183	4863	18527
MEAN	206.6	565.8	1781	1164	785.7	1436	1389	1810	343.0	231.7	156.9	617.6
MAX	1160	8950	5150	6730	1990	5610	3570	9380	821	571	527	7940
MIN	34	68	743	326	380	292	688	748	192	155	93	58
CFSM	0.38	1.03	3.24	2.12	1.43	2.62	2.53	3.30	0.62	0.42	0.29	1.12
IN.	0.43	1.15	3.74	2.44	1.49	3.02	2.82	3.80	0.70	0.49	0.33	1.26

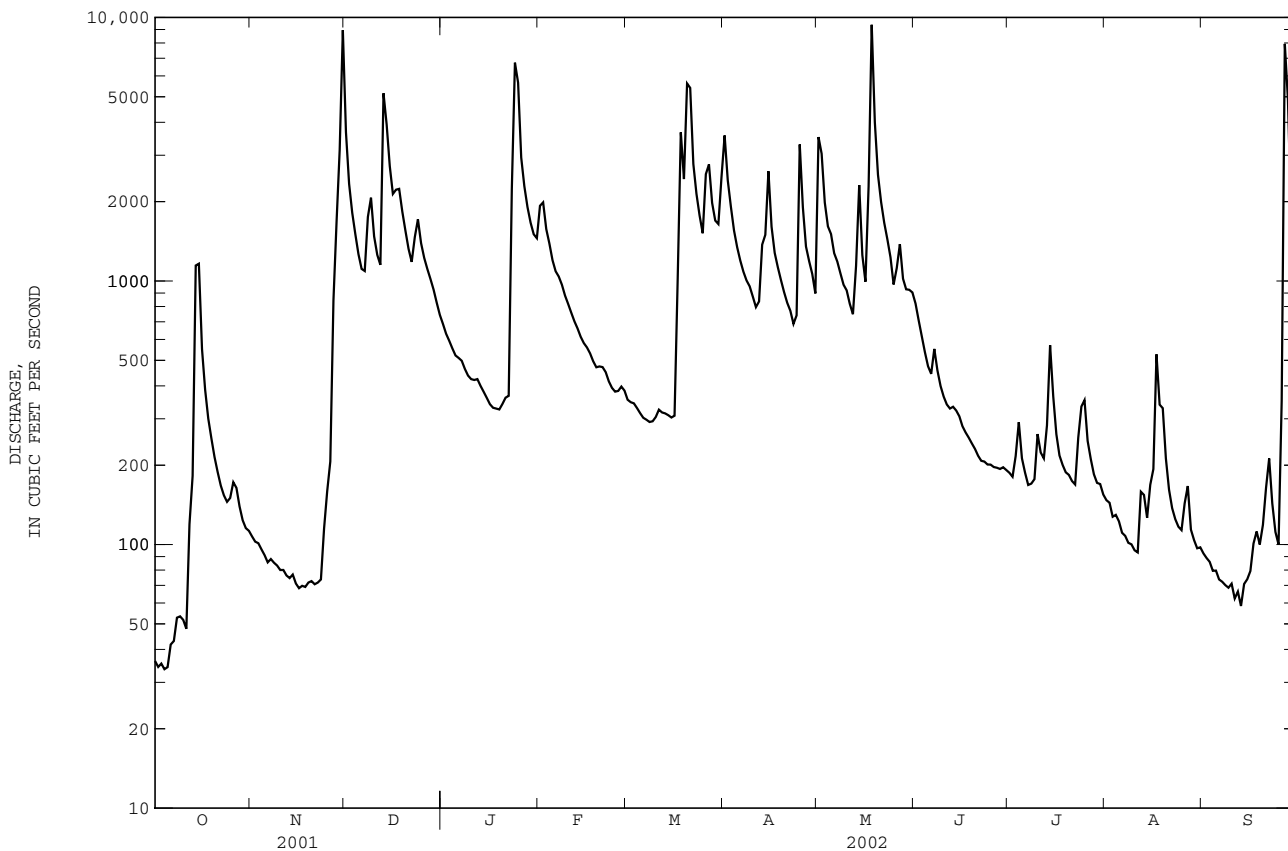
e Estimated

03435305 RED RIVER BELOW HIGHWAY 161 NEAR BARREN PLAINS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

MEAN	154.5	345.8	763.2	1049	1090	1461	897.1	1091	821.8	301.9	221.3	204.2
MAX	422	1073	2335	2718	1829	4219	1594	1810	3219	655	507	618
(WY)	1997	1997	1997	1999	1997	1997	1998	2002	1998	1998	1998	2002
MIN	47.3	48.4	166	121	525	406	333	355	200	110	77.1	42.3
(WY)	2000	2000	2000	2000	2000	2000	2001	2001	1999	2000	1999	1999

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1994 - 2002	
ANNUAL TOTAL	182984		319800			
ANNUAL MEAN	501.3		876.2		698.6	
HIGHEST ANNUAL MEAN					1170	1997
LOWEST ANNUAL MEAN					286	2000
HIGHEST DAILY MEAN	8950	Nov 30	9380	May 18	19800	Mar 3 1997
LOWEST DAILY MEAN	34	Oct 2	34	Oct 2	30	Oct 26 1999
ANNUAL SEVEN-DAY MINIMUM	36	Sep 29	37	Oct 1	31	Oct 26 1999
MAXIMUM PEAK FLOW			11200	May 18	22100	Mar 2 1997
MAXIMUM PEAK STAGE			17.15	May 18	28.49	Mar 2 1997
INSTANTANEOUS LOW FLOW			23	Oct 5	23	Oct 5 2001
ANNUAL RUNOFF (CFSM)	0.91		1.60		1.27	
ANNUAL RUNOFF (INCHES)	12.40		21.67		17.29	
10 PERCENT EXCEEDS	1340		2140		1600	
50 PERCENT EXCEEDS	215		365		326	
90 PERCENT EXCEEDS	55		80		70	



CUMBERLAND RIVER BASIN

03435970 MILLERS CREEK AT TURNERSVILLE, TN

LOCATION.--Lat 36°29'16", long 87°02'22", Robertson County, Hydrologic Unit 05130206, on Maxie road, at the confluence of Honey Run Creek and Millers Creek, at Turnersville.

DRAINAGE AREA.--20.5 mi².

PERIOD OF RECORD.--March 2000 to current year.

GAGE.--Data collection platform and crest-stage gage.

REMARKS.--Records good except for discharges above 800 ft³/s, 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 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 29	2145	1,190	5.87	Mar 20	0715	1,280	6.02
Dec 13	0015	undetermined	*8.89	Sep 27	0215	1,820	6.75

Minimum daily discharge, 0.47 ft³/s, Oct. 4.

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	0.52	4.4	144	17	93	12	172	125	12	4.0	2.6	1.9
2	0.49	4.7	92	15	69	13	99	92	11	4.0	2.5	2.0
3	0.49	4.9	81	14	56	13	56	70	10	4.6	2.4	2.0
4	0.47	4.5	46	13	44	11	54	114	9.5	4.1	2.3	2.0
5	0.79	4.5	48	13	34	9.9	40	106	9.0	3.8	2.2	1.9
6	2.0	4.2	49	13	32	9.7	33	88	47	3.6	2.4	2.0
7	1.8	4.2	55	12	29	9.6	29	84	28	3.5	2.3	2.1
8	1.6	4.1	130	11	26	9.4	28	59	16	3.6	2.4	1.7
9	1.6	4.0	126	10	25	10	26	63	12	4.3	2.1	1.9
10	1.6	3.1	126	10	24	9.7	21	74	11	4.0	2.0	2.0
11	1.9	2.5	172	11	20	9.7	19	70	10	3.7	2.5	2.0
12	50	2.3	336	10	20	10	23	63	10	3.6	2.1	2.1
13	19	2.4	825	10	20	11	28	232	11	4.9	2.0	1.9
14	128	2.5	392	9.8	23	10	48	135	11	4.1	3.1	2.5
15	45	2.5	201	9.3	27	11	43	88	11	3.6	2.9	3.5
16	22	2.5	150	8.6	30	11	33	66	10	3.4	3.4	4.2
17	13	2.5	115	8.7	20	265	28	174	11	3.3	3.8	4.6
18	8.9	2.5	136	8.9	18	241	26	190	12	3.6	3.0	5.1
19	7.0	2.8	113	11	16	148	23	115	13	3.8	3.1	4.7
20	5.7	3.0	82	15	16	455	21	79	12	3.3	3.5	6.0
21	4.8	2.8	63	17	13	182	19	60	7.2	3.2	3.0	7.1
22	4.6	2.7	72	25	12	122	18	41	6.3	3.1	2.7	4.2
23	5.0	2.7	138	117	11	104	17	33	6.3	4.1	3.5	3.6
24	5.7	11	82	367	11	97	158	27	6.4	4.8	3.4	3.3
25	7.6	7.4	34	144	10	79	157	22	5.7	3.4	3.2	3.7
26	6.0	4.9	19	94	14	179	102	25	4.9	3.2	3.2	81
27	5.3	56	14	70	13	150	74	19	4.9	3.0	2.9	310
28	4.9	47	15	55	13	157	64	18	5.1	2.8	2.6	59
29	4.6	539	21	44	---	96	53	16	4.5	2.7	2.4	32
30	4.4	309	24	39	---	94	44	14	4.2	2.7	2.1	19
31	4.2	---	20	36	---	241	---	13	---	2.8	1.9	---
TOTAL	368.96	1050.6	3921	1238.3	739	2780.0	1556	2375	332.0	112.6	83.5	579.0
MEAN	11.90	35.02	126.5	39.95	26.39	89.68	51.87	76.61	11.07	3.632	2.694	19.30
MAX	128	539	825	367	93	455	172	232	47	4.9	3.8	310
MIN	0.47	2.3	14	8.6	10	9.4	17	13	4.2	2.7	1.9	1.7
CFSM	0.58	1.71	6.17	1.95	1.29	4.37	2.53	3.74	0.54	0.18	0.13	0.94
IN.	0.67	1.91	7.12	2.25	1.34	5.04	2.82	4.31	0.60	0.20	0.15	1.05

03435970 MILLERS CREEK AT TURNERSVILLE, TN--Continued

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

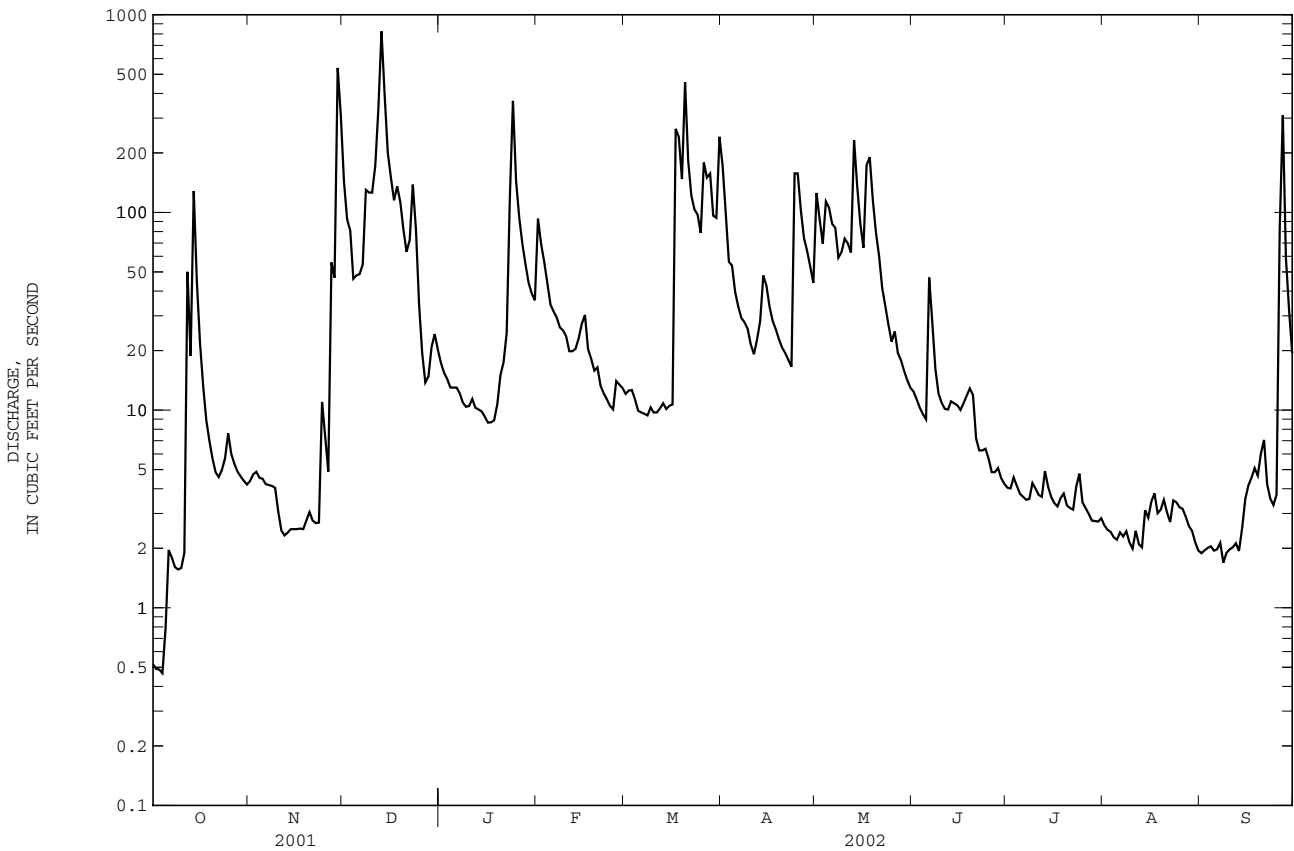
MEAN	7.941	19.86	66.71	24.33	38.81	40.75	33.53	40.89	8.039	3.246	2.275	7.476
MAX	11.9	35.0	126	39.9	51.2	89.7	51.9	76.6	11.1	3.63	2.87	19.3
(WY)	2002	2002	2002	2002	2001	2002	2002	2002	2002	2002	2000	2002
MIN	3.98	4.71	6.93	8.71	26.4	10.1	12.3	5.82	5.58	2.75	1.26	0.78
(WY)	2001	2001	2001	2001	2002	2000	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 2000 - 2002

ANNUAL TOTAL	15135.96		
ANNUAL MEAN	41.47	23.33	
HIGHEST ANNUAL MEAN		41.5	2002
LOWEST ANNUAL MEAN		10.3	2001
HIGHEST DAILY MEAN	825	825	Dec 13 2001
LOWEST DAILY MEAN	0.47	0.41	Sep 15 2001
ANNUAL SEVEN-DAY MINIMUM	0.94	0.54	Sep 28 2001
MAXIMUM PEAK FLOW	undetermined	undetermined	
MAXIMUM PEAK STAGE	8.89	8.89	Dec 13 2001
ANNUAL RUNOFF (CFSM)	2.02	1.14	
ANNUAL RUNOFF (INCHES)	27.47	15.46	
10 PERCENT EXCEEDS	119	58	
50 PERCENT EXCEEDS	11	5.6	
90 PERCENT EXCEEDS	2.4	1.9	



CUMBERLAND RIVER BASIN

03436100 RED RIVER AT PORT ROYAL, TN

LOCATION.--Lat 36°33'17", long 87°08'31", Montgomery County, Hydrologic Unit 05130206, on left bank at county road bridge at Port Royal, 250 ft downstream from Sulphur Fork, and at mile 25.5.

DRAINAGE AREA.--935 mi² includes 437 mi² without surface drainage.

PERIOD OF RECORD.--July 1961 to September 1991. October 1991 to September 1996, crest-stage partial record station. October 1997 to current year.

GAGE.--Water-stage encoder, crest-stage gage and satellite telemeter at station. Datum of gage is 376.25 ft above NGVD of 1929. July 13, 1961, to Oct. 9, 1963, nonrecording gage and crest-stage gage at same site and datum.

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.--Flood of Jan. 23, 1937, reached a stage of 44.4 ft; from flood profile of U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 30	1100	*17,400	*28.74	Mar 21	0300	14,200	25.40
Jan 25	0230	14,700	25.90	May 18	1630	15,100	26.38

Minimum discharge, 50 ft³/s, Sept. 14.

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

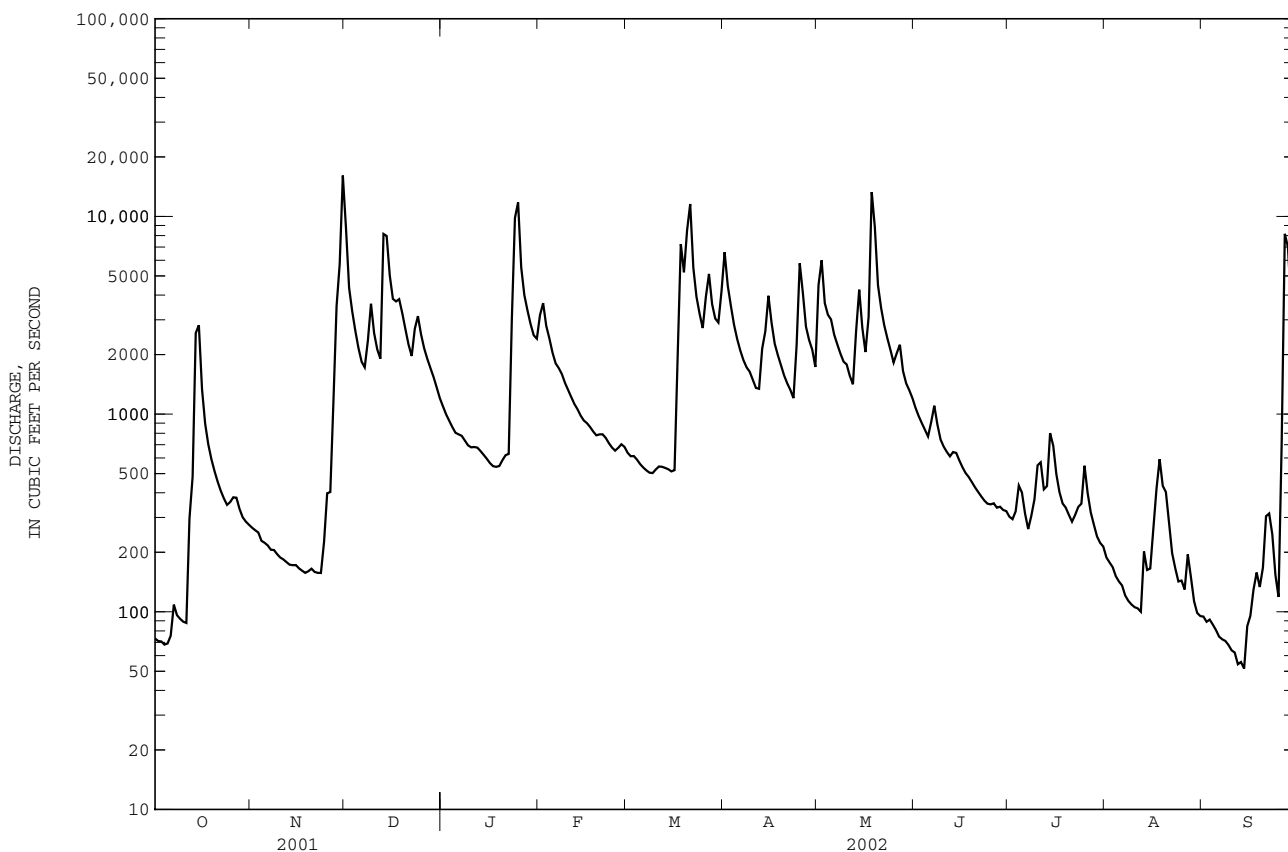
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	266	8780	1090	3170	637	6590	4490	1080	303	188	95
2	71	258	4350	998	3640	612	4460	6000	978	294	178	89
3	71	252	3310	925	2790	613	3530	3640	901	322	168	91
4	68	229	2640	859	2420	588	2830	3180	833	435	151	86
5	69	223	2160	804	2050	559	2400	3010	771	401	142	81
6	76	217	1840	790	1810	537	2100	2520	911	314	136	75
7	109	206	1720	776	1710	519	1880	2250	1100	262	121	73
8	96	205	2350	734	1590	505	1730	2020	884	306	114	71
9	92	196	3620	695	1440	503	1640	1840	743	370	109	68
10	89	188	2570	679	1320	524	1490	1780	685	551	106	64
11	88	184	2120	681	1220	543	1360	1560	644	570	104	62
12	296	178	1910	677	1120	541	1340	1420	611	416	100	54
13	483	173	8160	650	1060	534	2140	2610	643	432	202	56
14	2570	172	7970	622	982	526	2620	4260	636	801	163	52
15	2820	172	5020	594	929	513	3970	2730	583	692	165	85
16	1340	166	3830	565	900	520	2900	2060	538	496	264	96
17	897	161	3720	545	861	1990	2270	3090	503	403	418	129
18	704	157	3810	541	816	7250	1990	13300	480	353	591	158
19	591	160	3230	546	781	5220	1770	8830	453	336	433	133
20	515	165	2690	584	789	8510	1570	4490	426	309	404	167
21	455	159	2250	619	790	11600	1430	3450	404	286	283	304
22	409	157	1970	629	758	5500	1320	2820	384	309	198	314
23	374	157	2700	3000	713	3930	1200	2420	365	339	166	247
24	347	226	3130	9820	678	3220	2230	2110	352	352	142	153
25	359	398	2530	11800	653	2720	5800	1820	349	548	144	119
26	379	403	2150	5530	675	3910	4100	2030	354	399	130	720
27	378	1170	1900	4010	704	5120	2770	2240	336	318	195	8170
28	331	3520	1710	3340	683	3600	2370	1650	340	275	150	7000
29	301	5730	1540	2850	---	3040	2120	1430	327	240	113	3600
30	286	16100	1360	2500	---	2910	1730	1320	323	223	99	2400
31	276	---	1200	2410	---	4180	---	1200	---	214	95	---
TOTAL	15013	31948	98240	60863	37052	81474	75650	97570	17937	11869	5972	24812
MEAN	484.3	1065	3169	1963	1323	2628	2522	3147	597.9	382.9	192.6	827.1
MAX	2820	16100	8780	11800	3640	11600	6590	13300	1100	801	591	8170
MIN	68	157	1200	541	653	503	1200	1200	323	214	95	52
CFSM	0.52	1.14	3.39	2.10	1.42	2.81	2.70	3.37	0.64	0.41	0.21	0.88
IN.	0.60	1.27	3.91	2.42	1.47	3.24	3.01	3.88	0.71	0.47	0.24	0.99

03436100 RED RIVER AT PORT ROYAL, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY)

MEAN	261.1	646.3	1734	1981	2425	2631	2040	1635	1056	584.3	305.3	380.2
MAX	855	3610	5054	5984	7429	9874	6482	7183	5467	2858	809	3939
(WY)	1980	1980	1991	1974	1989	1975	1979	1983	1998	1989	1998	1979
MIN	68.2	74.4	73.4	91.7	562	724	490	270	140	143	130	83.4
(WY)	1964	1964	1964	1981	1964	2000	1986	1988	1988	1988	1988	1999

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1961 - 2002	
ANNUAL TOTAL	328046		558400			
ANNUAL MEAN	898.8		1530		1311	
HIGHEST ANNUAL MEAN					2594	
LOWEST ANNUAL MEAN					514	
HIGHEST DAILY MEAN	16100	Nov 30	16100	Nov 30	56600	Mar 13 1975
LOWEST DAILY MEAN	68	Oct 4	52	Sep 14	52	Sep 14 2002
ANNUAL SEVEN-DAY MINIMUM	72	Sep 30	61	Sep 8	58	Sep 12 1964
MAXIMUM PEAK FLOW			17400		60300	
MAXIMUM PEAK STAGE			28.74		48.26	
INSTANTANEOUS LOW FLOW			50		50	
ANNUAL RUNOFF (CFSM)	0.96		1.64		1.40	
ANNUAL RUNOFF (INCHES)	13.05		22.22		19.06	
10 PERCENT EXCEEDS	2370		3670		2970	
50 PERCENT EXCEEDS	419		650		584	
90 PERCENT EXCEEDS	113		120		120	



CUMBERLAND RIVER BASIN

03436690 YELLOW CREEK AT ELLIS MILLS, TN

LOCATION.--Lat 36°18'39", long 87°33'15", Houston County, Hydrologic Unit 05130205, on right bank at downstream end of bridge on county road, 0.3 mi northeast of Ellis Mills, 1.0 mi upstream from Leatherwood Creek, 1.0 mi downstream from Williamson Branch.

DRAINAGE AREA.--103 mi².

PERIOD OF RECORD.--October 1980 to September 1991. October 1991 to September 1997, crest-stage partial record station. October 2000 to current year.

GAGE.--Water-stage encoder, crest-stage gage and satellite telemeter at station. Elevation of gage is 417 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft³/s May 6, 1984, gage height, 18.47 ft recorded, 18.95 ft, from floodmarks, from rating curve extended above 9,500 ft³/s on basis of regression formula and peak discharge at Station No. 03436700 Yellow Creek near Shiloh, TN; minimum, 7.2 ft³/s Oct. 14, 1986, result of upstream regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 14	0230	2,830	9.85	Mar 18	0200	5,030	12.34
Nov 29	2330	*7,000	*14.09	Mar 20	1100	2,900	9.94
Dec 13	0230	2,110	8.82	Sep 27	0200	2,460	9.34
Jan 24	1200	4,620	11.91				

Minimum discharge, 17 ft³/s, Oct. 2, 3, 4, 5.

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	18	54	783	133	459	102	934	424	80	47	36	26
2	18	53	481	122	428	105	676	301	76	45	34	25
3	18	53	357	115	363	105	528	216	72	45	32	24
4	17	48	283	106	310	97	385	198	69	44	31	24
5	21	46	216	102	262	92	292	184	66	42	30	23
6	31	44	185	101	233	89	236	173	69	40	29	22
7	28	43	170	98	220	89	198	161	66	39	28	24
8	25	41	240	93	200	88	187	147	63	41	26	22
9	23	40	329	90	184	93	181	143	61	41	26	22
10	22	39	294	89	178	90	160	137	58	43	25	21
11	27	38	240	89	163	87	149	124	57	45	25	20
12	46	36	296	87	154	94	144	115	56	43	25	19
13	391	35	1410	85	145	98	139	865	57	46	24	19
14	1570	34	749	83	135	99	137	744	55	43	26	19
15	523	34	506	81	129	101	133	510	53	40	34	22
16	324	33	401	78	126	101	127	340	52	38	36	23
17	217	32	366	78	117	956	122	361	51	37	50	23
18	168	31	356	81	107	2250	117	413	49	42	39	22
19	143	33	322	96	103	951	112	277	48	43	35	22
20	124	33	278	130	119	1720	107	206	47	39	32	28
21	108	31	228	138	117	1050	103	176	45	37	31	35
22	97	30	204	134	108	699	101	155	44	40	30	30
23	87	30	466	250	105	560	95	139	44	39	30	25
24	84	51	450	2130	104	447	173	127	44	46	32	24
25	84	80	361	889	103	340	242	118	54	42	31	24
26	74	73	305	536	112	601	185	128	63	39	30	293
27	68	349	261	407	106	593	167	111	50	36	29	1400
28	64	425	218	335	103	499	162	101	71	35	28	461
29	61	3670	190	291	---	409	142	95	55	34	27	217
30	59	2610	164	261	---	377	130	89	50	34	26	152
31	56	---	146	232	---	1030	---	85	---	40	25	---
TOTAL	4596	8149	11255	7540	4993	14012	6564	7363	1725	1265	942	3111
MEAN	148.3	271.6	363.1	243.2	178.3	452.0	218.8	237.5	57.50	40.81	30.39	103.7
MAX	1570	3670	1410	2130	459	2250	934	865	80	47	50	1400
MIN	17	30	146	78	103	87	95	85	44	34	24	19
CFSM	1.44	2.64	3.52	2.36	1.73	4.39	2.12	2.31	0.56	0.40	0.30	1.01
IN.	1.66	2.94	4.06	2.72	1.80	5.06	2.37	2.66	0.62	0.46	0.34	1.12

03436690 YELLOW CREEK AT ELLIS MILLS, TN--Continued

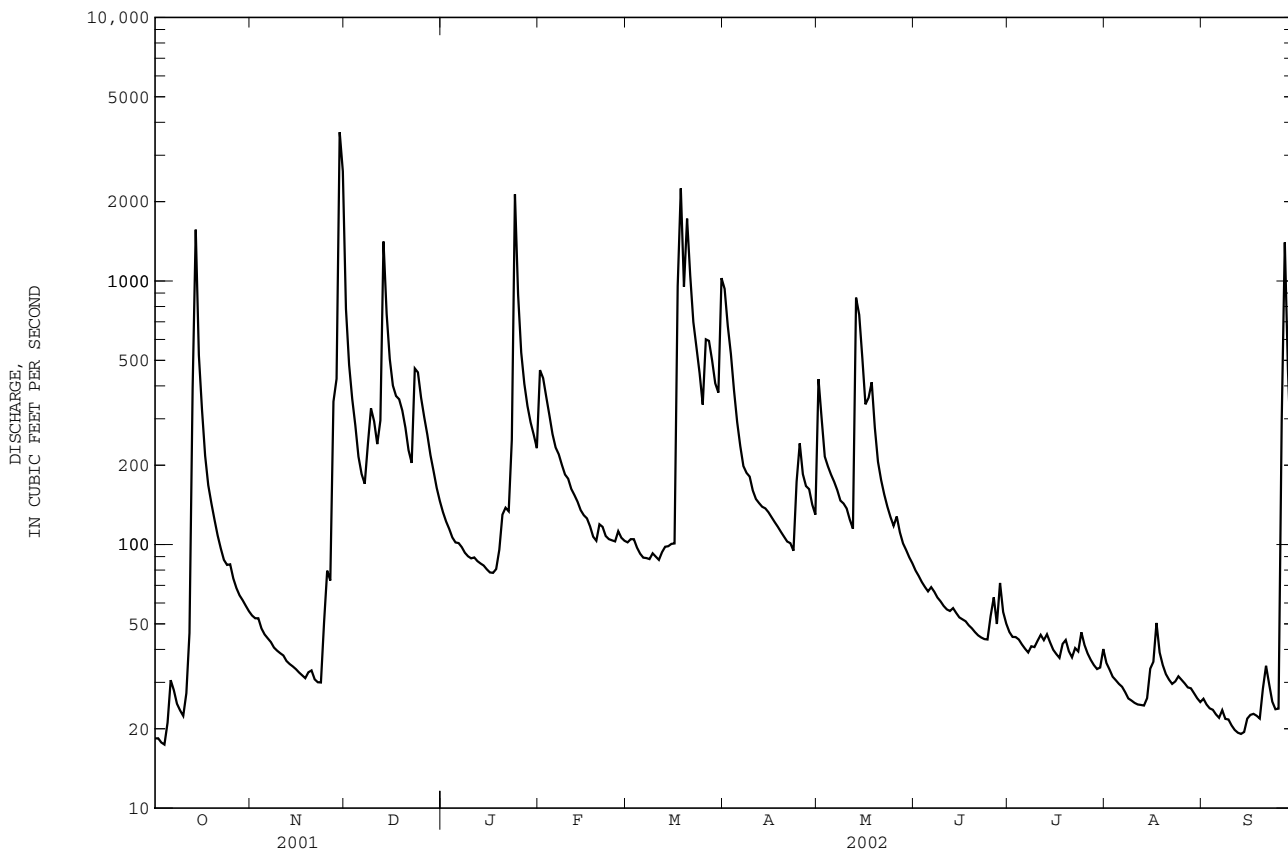
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2002, BY WATER YEAR (WY)

MEAN	43.86	96.92	223.1	185.9	342.4	253.9	236.6	233.1	125.8	59.20	32.88	37.75
MAX	148	272	499	490	845	477	609	795	437	173	47.8	104
(WY)	2002	2002	1991	1989	1989	1989	1983	1984	1981	1989	1989	2002
MIN	16.2	27.2	34.1	22.9	101	124	78.5	46.8	30.0	26.1	19.2	16.4
(WY)	1988	1988	1981	1981	1984	1981	1986	1986	1988	1988	1987	1987

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1981 - 2002

ANNUAL TOTAL	51083		71515		154.8		
ANNUAL MEAN	140.0		195.9		82.1		1989
HIGHEST ANNUAL MEAN					270		2001
LOWEST ANNUAL MEAN					82.1		
HIGHEST DAILY MEAN	3670	Nov 29	3670	Nov 29	5530	Feb 3	1990
LOWEST DAILY MEAN	17	Oct 4	17	Oct 4	14	Aug 24	1987
ANNUAL SEVEN-DAY MINIMUM	18	Sep 28	20	Sep 8	14	Oct 2	1987
MAXIMUM PEAK FLOW			7000		14400		May 6 1984
MAXIMUM PEAK STAGE			14.09		18.47		May 6 1984
INSTANTANEOUS LOW FLOW			a17		7.2		Oct 14 1986
ANNUAL RUNOFF (CFSM)	1.36		1.90		1.50		
ANNUAL RUNOFF (INCHES)	18.45		25.83		20.43		
10 PERCENT EXCEEDS	289		426		311		
50 PERCENT EXCEEDS	67		93		68		
90 PERCENT EXCEEDS	24		26		23		

a Also occurred Oct. 3, 4, 5.



RESERVOIRS IN CUMBERLAND RIVER BASIN

03413500 LAKE CUMBERLAND.--Lat 36°52'09", long 85°08'45", Russell County, KY, Hydrologic Unit 05130103, in pylon of Wolf Creek Dam on Cumberland River and 10 mi southwest of Jamestown, Ky. DRAINAGE AREA, 5,789 mi². PERIOD OF RECORD, April 1950 to current year. Prior to October 1954, published as Wolf Creek Reservoir. April to June 1950, published in WSP 1726. GAGE, water-stage recorder. Datum of gage is Sandy Hook datum. Prior to Dec. 6, 1950, nonrecording gage at same site at datum 545.0 ft higher.

REVISIONS.--WSP 1556: Drainage area.

REMARKS.--Reservoir is formed by earth embankment and concrete gravity dam surmounted by 10 taintor gates, each 37 high by 50 ft wide. Final closure of dam made Aug. 7, 1950. Total capacity at elevation 760.00 ft top of gates, is 3,070,000 cfs-days, of which 1,056,000 cfs-days above elevation 723.00 ft, crest of spillway, are reserved for flood control and 1,080,000 cfs-days between elevation 673.00 ft, minimum power pool, and 723.00 ft are used for power production. Figures given herein represent total contents, of which 934,000 cfs-days below elevation 673.00 ft is dead storage. Reservoir is used for flood control, power, navigation, and recreation.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,811,000 cfs-days, May 13, 1984, elevation, 751.70 ft; minimum, first filling, 934,400 cfs-days, Jan. 1, 1956, elevation, 673.01 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,198,800 cfs-days, Apr. 3, elevation, 730.14 ft; minimum, 1,276,300 cfs-days, Dec. 6, elevation, 690.76 ft.

03416500 DALE HOLLOW LAKE.--Lat 36°32'19", long 85°27'05", Clay County, Hydrologic Unit 05130105, at Dale Hollow Dam on Obey River, 3.0 mi east of Celina, and 7.3 mi upstream from mouth. DRAINAGE AREA, 936 mi². PERIOD OF RECORD, August 1943 to current year. Prior to October 1965, published as Dale Hollow Reservoir. GAGE, water-stage recorder. Datum of gage is Sandy Hook datum. Prior to June 25, 1946, nonrecording gage at same site and datum.

REVISIONS.--WSP 1306: 1944. WSP 2110: Drainage area.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with six taintor gates, each 12 ft high by 60 ft wide. Closure of dam was made Aug. 30, 1943; water in reservoir first reached minimum pool elevation May 7, 1944. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 663.0 ft, top of gates, is 859,800 cfs-days of which 177,500 cfs-days between elevations 663.00 ft and 651.00 ft, crest of spillway, are reserved for flood control, and 250,200 cfs-days between elevations 651.00 ft and 631.00 ft, ordinary minimum pool, are used for power production. Contents of 432,100 cfs-days below elevation 631.00 ft is dead storage. Reservoir is used for flood control, navigation, and power.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 828,600 cfs-days, Mar. 15, 1975, elevation, 660.98 ft; minimum, first filling, 428,000 cfs-days, Sept. 11, 1944, elevation, 630.63 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 711,700 cfs-days, Apr. 1, elevation, 653.08 ft; minimum, 497,800 cfs-days, Nov. 13, elevation, 636.73 ft.

03418400 CORDELL HULL RESERVOIR.--Lat 36°17'23", long 85°56'39", Smith County, Hydrologic Unit 05130108, at Cordell Hull Dam Cumberland River, 2.7 mi north of Carthage, and at mile 313.5. DRAINAGE AREA, 8,095 mi². PERIOD OF RECORD, October 1972 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankment. Spillway is equipped with five gates, each 41 ft high and 45 ft wide. Closure of dam was made Oct. 4, 1967; water in reservoir first reached ordinary minimum pool Mar. 13, 1973. Total capacity at elevation 508.0 ft, maximum surcharge pool, is 156,700 cfs-days, of which 53,400 cfs-days is controlled storage between elevations 508.0 ft and 499.0 ft, ordinary minimum pool. Contents of 5,000 cfs-days between elevation of 499.0 ft and 500.0 ft full winter pool, is available for power production. Contents of 48,400 cfs-days above 500.0 ft is available for flood control during the winter, and 26,100 cfs-days above 504.0 ft, full pool during spring to fall season, is available for flood control the rest of the year. Contents of 103,300 cfs-days below elevation 499.0 ft is dead storage. Reservoir is used for navigation, power, and flood control.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 156,700 cfs-days, Mar. 13, 1975, May 8, 1984, elevation, 508.00 ft; minimum, after first filling to ordinary minimum pool, 96,700 cfs-days, Apr. 18, 1974, elevation, 497.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 136,800 cfs-days, May 6, elevation, 505.00 ft; minimum, 103,500 cfs-days, Feb. 11, elevation, 499.05 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	03413500 LAKE CUMBERLAND			03416500 DALE HOLLOW LAKE			03418400 CORDELL HULL RESERVOIR		
	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
Sept. 30...	699.40	1,458,800	-221,900	639.15	530,500	-47,400	504.02	130,800	-2,300
Oct. 31...	694.81	1,360,400	-98,400	637.99	512,900	-17,600	502.37	121,100	-9,700
Nov. 30...	690.86	1,278,300	-82,100	637.06	501,800	-11,100	500.91	113,100	-8,000
Dec. 31...	697.10	1,409,100	+130,800	639.75	534,400	+32,600	500.38	110,300	-2,800
CAL YR 2001	-	-	+185,800	-	-	+39,700	-	-	+1,700
Jan. 31...	716.35	1,848,900	+439,800	647.10	628,900	+94,500	500.22	109,500	-800
Feb. 28...	712.02	1,745,100	-103,800	645.13	602,800	-26,100	500.42	110,500	+1,000
Mar. 31...	727.34	2,125,300	+380,200	652.65	705,500	+102,700	501.86	118,300	+7,800
Apr. 30...	724.74	2,058,200	-67,100	651.41	688,100	-17,400	504.18	131,700	+13,400
May 31...	722.30	1,996,200	-62,000	650.18	670,900	-17,200	504.25	132,200	+500
June 30...	717.98	1,888,700	-107,500	648.25	644,400	-26,500	504.05	131,000	-1,200
July 31...	711.55	1,734,100	-154,600	644.54	595,100	-49,300	504.33	132,700	+1,700
Aug. 31...	703.21	1,542,800	-191,300	640.62	545,200	-49,900	504.36	132,800	100
Sept. 30...	697.45	1,416,600	-126,200	638.38	517,600	-27,600	503.45	127,400	-5,400
WTR YR 2002	-	-	-42,200	-	-	-12,900	-	-	-3,400

RESERVOIRS IN CUMBERLAND RIVER BASIN--CONTINUED

03422000 GREAT FALLS LAKE.--Lat 35°48'21", long 85°38'09", Warren County, Hydrologic Unit 05130108, at pen-stock inlet on Collins River, 700 ft southwest of powerhouse of Tennessee Valley Authority, 1.5 mi northwest of Rock Island, 1.8 mi upstream from mouth of Collins River, and 2.0 mi upstream from Great Falls Dam on Caney Fork. DRAINAGE AREA, 1,677 mi². PERIOD OF RECORD, January 1917 to current year. GAGE, remote indicator gage. Datum of gage is sea level. REVISIONS.--WSP 2110: Drainage area.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with 18 taintor gates, each 14 ft high by 25 ft wide. Closure of dam was made in 1916; dam redesigned and crest raised 35 ft in 1925. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 805.3 ft top of gates, is 25,900 cfs-days, of which 18,700 cfs-days are controlled storage above elevation 780.0 ft, normal minimum pool. Contents of 1,500 cfs-days below elevation 762.0 ft is dead storage. Reservoir is used primarily for power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum midnight elevation, 817.48 ft, Mar. 23, 1929, contents not determined; minimum midnight contents, 1,700 cfs-days, Aug. 19, 1918, elevation, 756.3 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 28,000 cfs-days, Jan. 24, elevation, 807.66 ft; minimum, 9,880 cfs-days, Nov. 21, elevation, 784.91 ft.

03424000 CENTER HILL LAKE.--Lat 36°05'48", long 85°49'38", DeKalb County, Hydrologic Unit 05130108, at Center Hill Dam on Caney Fork, 10 mi north of Smithville, 14 mi southeast of Carthage, and at mile 26.6. DRAINAGE AREA, 2,174 mi². PERIOD OF RECORD, October 1948 to current year. Prior to October 1965, published as Center Hill Reservoir. GAGE, water-stage recorder. Datum of gage is Sandy Hook datum. Prior to Mar. 14, 1949, nonrecording gage at site 1,320 ft upstream at same datum. REVISIONS.--WSP 1910: Drainage area.

REMARKS.--Reservoir is formed by earth embankment and concrete gravity dam. Spillway is equipped with eight taintor gates, each 37 ft high by 50 ft wide. Closure of dam was made Nov. 27, 1948; water in reservoir first reached minimum pool elevation Jan. 11, 1949. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 685.0 ft, top of gates, is 1,054,800 cfs-days, of which 384,500 cfs-days between 685.0 ft and 648.0 ft, crest of spillway, are reserved for flood control, and 248,000 cfs-days between elevations 648.0 ft and 618.0 ft, ordinary minimum pool, are used for power production. Contents of 422,300 cfs-days below 618.0 ft is dead storage. Reservoir is used for flood control, navigation, and power.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,014,600 cfs-days, May 10, 1984, elevation, 681.52 ft; minimum, after first filling, 171,000 cfs-days, Dec. 1, 2, 1949, elevation, 576.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 807,300 cfs-days, Jan. 15, elevation, 662.19 ft; minimum, 497,600 cfs-days, Nov. 1, elevation, 627.83 ft.

03426300 OLD HICKORY LAKE.--Lat 36°17'50", long 86°39'20", Sumner County, Hydrologic Unit 05130201, at Old Hickory Dam on Cumberland River, 2.0 mi west of Hendersonville, 10 mi northeast of the State Capitol in Nashville, and at mile 216.2. DRAINAGE AREA, 11,673 mi². PERIOD OF RECORD, June 1954 to current year. GAGE, water-stage recorder. Datum of gage is sea level; gage readings have been reduced to elevations NGVD. Prior to Apr. 4, 1957, nonrecording gage at same site and datum. REVISIONS.--WSP 2110: Drainage area.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankment. Spillway is equipped with six taintor gates, each 41 ft high and 45 ft wide. Closure of dam was made in June 1954 and water in reservoir was raised sufficiently to maintain navigation through the lock. Water in reservoir first reached ordinary minimum pool elevation Dec. 30, 1956. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 450.0 ft, maximum surcharge pool, 274,600 cfs-days of which 63,000 cfs-days between elevations 450.0 ft and 445.0 ft, normal pool, are induced surcharge storage provided to compensate for loss of natural valley storage incurred by construction of the project, and 31,800 cfs-days between elevations 445.0 ft and 442.0 ft, ordinary minimum pool, are used for power production. Contents of 179,800 cfs-days below elevation 442.0 ft, is dead storage. Reservoir is used for navigation and power.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 277,200 cfs-days, May 9, 1984, elevation, 450.18 ft; minimum, after first filling to ordinary minimum pool, 179,400 cfs-days, Oct. 22, 1957, Oct. 28, 1969, elevation, 441.96 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 237,800 cfs-days, Jan. 21, elevation, 447.20 ft, minimum, 200,000 cfs-days, Sept. 16, elevation, 443.95 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	03422000 GREAT FALLS LAKE			03424000 CENTER HILL LAKE			03426300 OLD HICKORY LAKE		
	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
Sept. 30...	800.36	20,800	+200	632.25	533,300	-44,500	444.50	206,000	-1,600
Oct. 31...	785.73	10,400	-10,400	629.88	514,000	-19,300	444.75	208,800	+2,800
Nov. 30...	789.18	12,400	+2,000	629.64	512,000	-2,000	445.60	218,500	+9,700
Dec. 31...	795.80	17,100	+4,700	634.47	551,700	+39,700	444.80	209,400	-9,100
CAL YEAR 2001	-	-	+1,700	-	-	+36,300	-	-	-600
Jan. 31...	805.25	25,300	+8,200	655.64	742,400	+190,700	444.66	207,800	-1,600
Feb. 28...	785.90	10,500	-14,800	641.92	615,600	-126,800	445.20	213,900	+6,100
Mar. 31...	804.92	24,900	+14,400	654.89	735,200	+119,600	445.15	213,300	-600
Apr. 30...	800.70	21,100	-3,800	648.09	671,100	-64,100	444.13	201,900	-11,400
May 31...	795.33	16,700	-4,400	646.95	660,700	-10,400	444.70	208,200	+6,300
June 30...	794.74	16,200	-500	645.09	643,800	-16,900	445.10	212,800	+4,600
July 31...	799.72	20,200	+4,000	640.44	602,600	-41,200	444.88	210,300	-2,500
Aug. 31...	799.93	20,400	+200	634.92	555,400	-47,200	444.95	211,100	800
Sept. 30...	801.16	21,500	+1,100	632.22	533,000	-22,400	444.36	204,500	-6,600
WTR YR 2002	-	-	+700	-	-	-300	-	-	-1,500

RESERVOIRS IN CUMBERLAND RIVER BASIN--CONTINUED

03430050 J. PERCY PRIEST RESERVOIR.--Lat 36°09'23", long 86°37'07", Davidson County, Hydrologic Unit 05130203, on upstream face of J. Percy Priest Dam on Stones River, 2.6 mi east of Donelson, and 6.8 mi above mouth. DRAINAGE AREA, 892 mi². PERIOD OF RECORD, September 1967 to current year. GAGE, water-stage recorder. Datum of gage is sea level. Prior to Dec. 15, 1967, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankments. Spillway is equipped with four taintor gates, each 41 ft high by 45 ft wide. Closure of dam was made Sept. 18, 1967; water in reservoir first reached ordinary minimum pool May 15, 1968. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 504.5 ft, maximum controlled pool, is 328,700 cfs-days of which 193,600 cfs-days is controlled storage between elevations 504.5 ft and 480.0 ft, ordinary minimum pool. Contents of 17,200 cfs-days between elevations 480.0 ft and 483.0 ft, full winter pool, is available for power production. Contents of 176,400 cfs-days above 483.0 ft is available for flood control during the winter, and 131,100 cfs-days above 490.0 ft, full pool during spring-to-fall season, is available for flood control the rest of the year. Contents of 135,100 cfs-days below elevation 480.0 ft is dead storage. Reservoir is used for flood control, power, recreation, and wildlife.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 336,600 cfs-days, May 9, 1984, elevation, 505.18 ft; minimum, after first filling to ordinary minimum pool, 109,500 cfs-days, Dec. 5, 1968, elevation, 474.75 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 245,000 cfs-days, Jan. 23, elevation, 496.10 ft, minimum, 147,300 cfs-days, Mar. 23, elevation, 482.16 ft.

03434900 CHEATHAM LAKE.--Lat 36°18'56", long 87°13'10", Cheatham County, Hydrologic Unit 05130202, at Cheatham Dam on Cumberland River, 9.4 mi west of Ashland City, 16 mi southeast of the courthouse in Clarksville, and at mile 148.7. DRAINAGE AREA, 14,159 mi².

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with seven semi-submersible taintor gates, each 27 ft high by 60 ft wide. Total capacity at elevation 385.0 ft, normal pool, is 52,200 cfs-days, of which 9,800 cfs-days are controlled storage. Records of contents not published herein.

03438210 LAKE BARKLEY.--Lat 37°01'17", long 88°13'16", Lyon County, KY, Hydrologic Unit 05130205, in powerhouse of Barkley Dam on Cumberland River, 1.4 mi northeast of Grand Rivers, KY, and at mile 30.6. DRAINAGE AREA, 17,598 mi². PERIOD OF RECORD, July 1964 to current year. GAGE, water-stage recorder. Datum of gage is sea level, (levels by U.S. Army Corps of Engineers). Prior to Jan. 1, 1966, nonrecording gage, 1,200 ft upstream from Barkley Dam at same datum.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankments. Spillway is equipped with 12 taintor gates, each 50 ft high by 55 ft wide. Construction cofferdam was closed and limited storage began July 1, 1964; reservoir reached ordinary minimum pool elevation of 354.0 ft Feb. 16, 1966. Total level pool capacity at elevation 375.0 ft, top of gates, is 1,049,600 cfs-days, of which 742,000 cfs-days is controlled storage above 354.0 ft, ordinary minimum pool. Contents of 130,500 cfs-days between ordinary minimum pool elevation, 354.0 ft, and full pool elevation, 359.0 ft, is available for power during the spring-to-fall season. Minimum pool elevation in advance of floods is 346.0 ft, contents 171,000 cfs-days. Reservoir is used for navigation, flood control, power, and recreation. Barkley-Kentucky Canal opened June 13, 1966, for navigation and power use. Canal is 1.75 mi long and interconnects Lake Barkley and Kentucky Lake at a point 2.2 mi upstream from Barkley Dam. For daily discharges through the canal, see station 03438190, Kentucky reports.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 370.04 ft, May 13, 1984; minimum after reaching permanent pool elevation, 353.20 ft, Dec. 20, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 646,400 cfs-days, May 10, elevation, 365.35 ft; minimum content, 294,300 cfs-days, Feb. 7, minimum, 353.40 ft. Contents based on backwater profile.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-day)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03430050	J. PERCY PRIEST LAKE		*03438210	LAKE BARKLEY	
Sept. 30.....	490.27	199,600	+2,100	355.45	342,000	+7,400
Oct. 31.....	487.85	182,700	-16,900	354.60	321,500	-20,500
Nov. 30.....	486.73	175,300	-7,400	360.25	475,400	+153,900
Dec. 31.....	482.85	151,400	-23,900	354.10	309,900	-165,500
CAL YR 2001	-	-	-1,500	-	-	-32,100
Jan. 31.....	486.70	175,100	+23,700	354.35	315,700	+5,800
Feb. 29.....	482.45	149,000	-26,100	354.65	322,700	+7,000
Mar. 31.....	489.75	195,800	+46,800	355.85	352,100	+29,400
Apr. 30.....	490.63	202,200	+6,400	359.25	445,400	+93,300
May 31.....	490.25	199,500	-2,700	361.45	513,000	+67,600
June 30.....	490.15	198,700	-800	359.15	442,500	-70,500
July 31.....	490.78	203,300	+4,600	357.75	402,600	-39,900
Aug. 31.....	490.54	201,600	-1,700	356.25	362,300	-40,300
Sept. 30.....	491.21	206,500	+4,900	357.15	386,100	+23,800
WTR YR 2002	-	-	+6,900	-	-	+44,100

* Contents based on backwater profile.

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TENNESSEE RIVER BASIN

03455000 FRENCH BROAD RIVER NEAR NEWPORT, TN

LOCATION.--Lat 35°58'54", long 83°09'40", Cocke County, Hydrologic Unit 06010105, on left bank, 200 ft upstream from bridge on U.S. Highway 321, 1.0 mi northeast of Newport city limits, 3.7 mi upstream from Pigeon River, and at mile 77.5.

DRAINAGE AREA.--1,858 mi².

PERIOD OF RECORD.--September to December 1900, February to August 1901, October to November 1901, November 1902 to December 1905, September to December 1907, October 1920 to September 1994, October 1996 to September 1997. Monthly discharge only October to November 1920, published in WSP 1306.

REVISED RECORDS.--WSP 783: 1933-34, WSP 823: Drainage area. WSP 893: 1928(M), WSP 1306: 1900-1908. WSP 1336: 1903(M), 1921-22(M), 1923, 1925(M), 1927(M), 1928, 1932. WSP 1706: 1901(M).

GAGE.--Water-stage recorder. Datum of gage is 1,011.61 ft above NGVD of 1929. See WSP 1910 for history of changes prior to Mar. 31, 1934.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuation during low flow caused by powerplants above station. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--From reports of Tennessee Valley Authority, the flood of Mar. 7, 1867, gage height, 24 ft, present datum, discharge estimated, 110,000 ft³/s, has not been exceeded since that date. From the same reports, other outstanding floods occurred Feb. 28, 1902, gage height, 23.0 ft present datum, discharge estimated, 101,000 ft³/s; and July 17, 1916, gage height, 22.5 ft present datum, discharge estimated 97,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 16,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 23	2145	18,100	8.73	Mar 17	2115	*33,900	*12.86

Minimum discharge, 359 ft³/s, Aug. 11, 13.

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	1080	823	1050	1010	2540	1530	5690	2030	1030	1040	630	612
2	1020	836	1080	944	2380	1470	4850	3040	1140	946	606	600
3	986	843	1070	1020	2240	1720	4110	3460	1230	1080	645	546
4	938	794	957	975	2130	3210	3480	3550	1050	1300	563	551
5	912	771	911	890	2020	2490	2940	4460	1180	1050	544	525
6	913	747	856	982	1950	2090	2620	3820	1970	974	490	487
7	898	734	848	1260	2020	1890	2450	2770	2820	845	423	469
8	872	750	866	1610	2870	1790	2310	2260	1930	783	406	458
9	914	743	901	1330	3170	1720	2280	1950	1370	737	384	386
10	858	766	921	1230	2710	1710	2400	1850	1260	668	369	384
11	831	740	1280	1310	2550	1690	2910	1770	1070	951	372	391
12	837	717	1860	1360	2400	1750	2580	1760	1010	1160	366	384
13	864	707	1700	1260	2300	1820	2360	1710	934	937	366	386
14	930	704	1610	1180	2150	2610	2400	2220	1050	1290	376	384
15	1310	742	1480	1130	2060	2910	2480	2010	1070	1270	512	383
16	2270	728	1390	1090	2050	2460	2400	1710	949	1300	531	757
17	1570	718	1310	1040	1940	11700	2250	1480	881	1200	473	1260
18	1200	706	1910	1040	1880	18200	2050	1490	834	994	709	1010
19	1070	661	2460	1490	1820	8500	2190	1730	791	893	826	710
20	1010	655	2080	5550	1780	5250	2080	1550	762	877	678	580
21	963	693	1690	4150	1780	4370	2070	1370	772	772	764	546
22	946	672	1480	3300	1800	4060	2000	1310	780	738	627	789
23	919	665	1360	7070	1770	3700	1980	1240	746	674	558	1860
24	896	683	1310	11400	1700	3190	1780	1220	702	952	486	1690
25	888	1010	1340	10400	1640	2940	2090	1160	704	902	474	1210
26	894	1700	1430	7110	1560	2790	2440	1130	782	958	515	1260
27	814	1550	1270	5010	1590	3090	2140	1090	893	1110	989	2870
28	844	1280	1220	4070	1570	3060	1960	1230	2300	867	1500	5650
29	806	1090	1180	3510	---	2780	1800	1690	1790	972	1140	4790
30	810	1040	1120	3000	---	3230	1710	1270	1230	917	863	3670
31	797	---	1060	2720	---	5460	---	1110	---	742	711	---
TOTAL	30860	25268	41000	89441	58370	115180	76800	60440	35030	29899	18896	35598
MEAN	995.5	842.3	1323	2885	2085	3715	2560	1950	1168	964.5	609.5	1187
MAX	2270	1700	2460	11400	3170	18200	5690	4460	2820	1300	1500	5650
MIN	797	655	848	890	1560	1470	1710	1090	702	668	366	383
CFSM	0.54	0.45	0.71	1.55	1.12	2.00	1.38	1.05	0.63	0.52	0.33	0.64
IN.	0.62	0.51	0.82	1.79	1.17	2.31	1.54	1.21	0.70	0.60	0.38	0.71

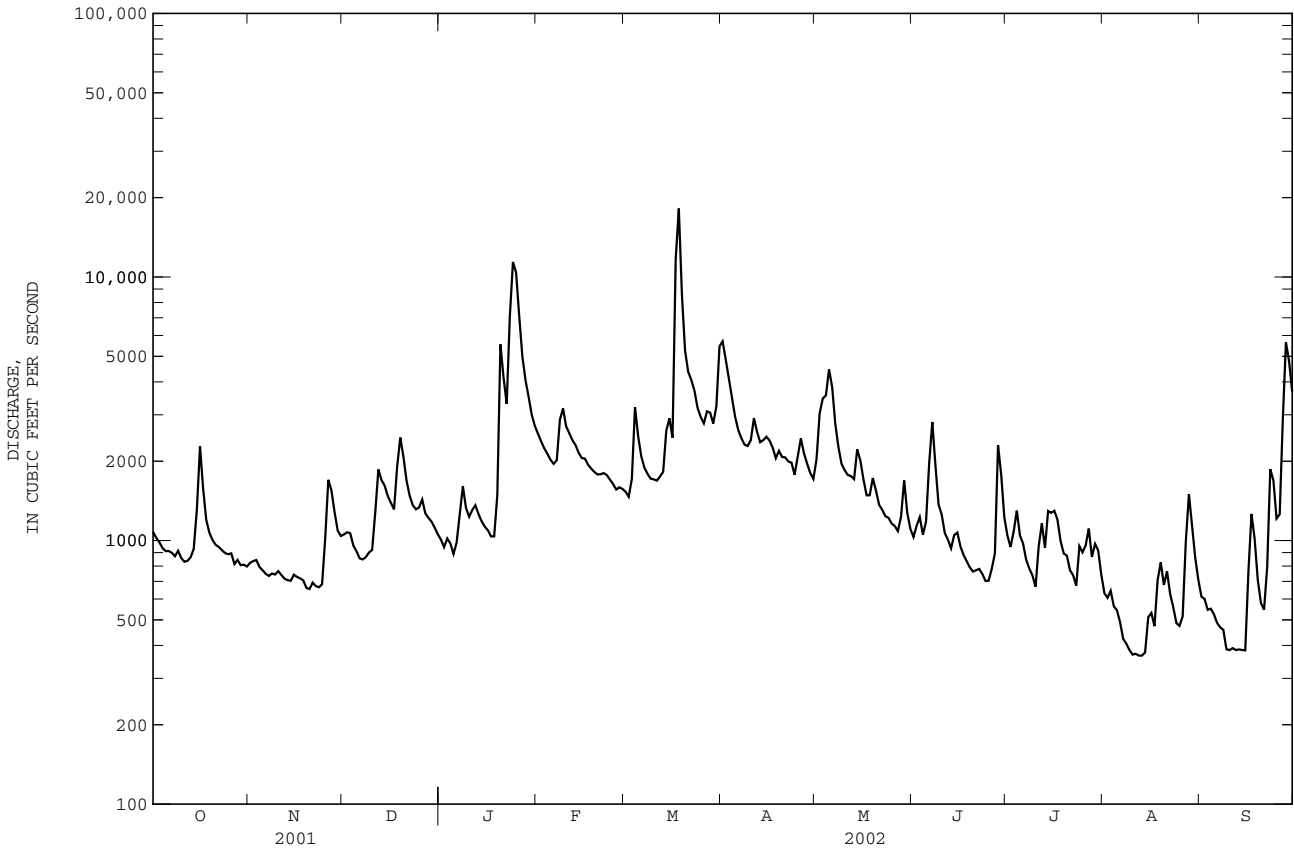
03455000 FRENCH BROAD RIVER NEAR NEWPORT, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1901 - 2002, BY WATER YEAR (WY)

MEAN	1858	2111	2818	3537	4195	4817	4311	3328	2577	2209	2266	1730
MAX	9875	7249	7478	9533	8814	12710	11650	9448	6148	7620	14640	6358
(WY)	1965	1980	1962	1937	1990	1903	1903	1901	1901	1905	1901	1928
MIN	508	713	819	968	1450	1399	1362	1252	722	711	380	421
(WY)	1955	1932	1940	1956	1941	1988	1986	1941	1988	1986	1925	1925

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1901 - 2002	
ANNUAL TOTAL	636976		616782			
ANNUAL MEAN	1745		1690		2969	
HIGHEST ANNUAL MEAN					7671 1901	
LOWEST ANNUAL MEAN					1348 1988	
HIGHEST DAILY MEAN	10700	Jul 30	18200	Mar 18	62200	Apr 8 1903
LOWEST DAILY MEAN	655	Nov 20	366	Aug 12	240	Sep 9 1925
ANNUAL SEVEN-DAY MINIMUM	676	Nov 18	377	Aug 8	276	Aug 25 1925
MAXIMUM PEAK FLOW			33900		76300 Aug 30 1940	
MAXIMUM PEAK STAGE			12.88		19.25 Aug 30 1940	
INSTANTANEOUS LOW FLOW			a359		208 Oct 23 1952	
ANNUAL RUNOFF (CFSM)	0.94		0.91		1.60	
ANNUAL RUNOFF (INCHES)	12.75		12.35		21.71	
10 PERCENT EXCEEDS	2930		3020		5420	
50 PERCENT EXCEEDS	1340		1210		2250	
90 PERCENT EXCEEDS	853		621		956	

a Also occurred Aug. 13.



TENNESSEE RIVER BASIN

03461500 PIGEON RIVER AT NEWPORT, TN

LOCATION.--Lat 35°57'38", long 83°10'28", Cocke County, Hydrologic Unit 06010106, on left bank 100 ft upstream from bridge on U.S. Highway 25 and 70 at Newport, 0.6 mi downstream from Morell Branch, and at mile 6.8

DRAINAGE AREA.--666 mi².

WATER-DISCHARGE RECORD

PERIOD OF RECORD.-- September 1900 to September 1929, October 1944 to September 1946, August 1948 to February 1982, October 1996 to current year. Monthly discharge only for some periods, published in WSP 1306. Published as "near Newport" 1945-46.

REVISED RECORDS.--WSP 1143: Drainage area. WSP 1306: 1901, 1904-10. WSP 1336: 1903, 1917(M), 1919-20(M), 1921, 1924(M), 1927-29(M), 1948-52 (monthly runoff).

GAGE.--Water-stage recorder. Datum of gage is 1,038.76 ft NGVD of 1929. Prior to Oct. 1, 1929, nonrecording gage at present site at datum 2.00 ft higher. May 8, 1945, to July 22, 1946, water-stage recorder at site 4.8 mi downstream at datum 35.85 ft lower. August 13, 1948, to Sept. 30, 1970, at present site at datum 2.00 ft higher.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data. Considerable regulation by Lakes Junaluska, Logan, and Walters for periods of low flow, combined usable capacity of reservoirs about 12,500 cfs-days. The largest of these, Lake Walters, usable capacity, 10,400 cfs-days was completed in 1929.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of Mar. 7, 1867, and June 17, 1876, reached a stage of 23 ft present datum, under present conditions about 21.1 ft, due to removal of mill dam in 1945, discharge, 48,000 ft³/s, and flood of August 30, 1940, reached a stage of 19.3 ft present datum, discharge 36,000 ft³/s, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 23	1830	8,510	8.18	Mar 18	1030	10,300	8.91
Mar 17	1745	*15,900	*11.06				

Minimum discharge, 143 ft³/s, June 24.

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	237	233	466	363	1370	770	2640	1420	553	217	547	284
2	260	238	483	739	1540	796	2350	2090	338	576	280	354
3	225	206	443	629	1040	303	1760	1700	502	626	456	437
4	261	202	588	355	945	381	1820	2120	706	628	271	270
5	282	231	250	516	1440	808	1030	2770	1210	358	192	323
6	600	524	293	448	1080	815	1110	1970	908	584	437	263
7	268	404	294	550	1210	360	1250	1600	371	278	537	187
8	386	178	369	836	1240	449	1560	1280	736	198	538	179
9	572	179	427	398	510	219	1500	1240	546	445	258	180
10	273	205	532	189	412	254	1470	1060	437	677	330	288
11	200	178	880	378	646	651	1420	905	507	773	239	255
12	196	499	648	642	1230	658	1520	749	771	391	173	284
13	336	489	806	330	799	441	743	1540	701	595	316	388
14	228	412	732	432	992	276	822	1150	534	396	241	264
15	1000	385	563	425	877	1320	740	964	581	265	200	187
16	554	388	747	481	315	1250	914	1260	309	543	193	191
17	344	349	828	387	285	7040	996	690	232	558	376	191
18	878	191	1430	273	720	7640	907	645	437	540	259	188
19	348	312	1050	1860	648	4010	842	514	507	397	189	176
20	234	362	554	3880	919	1570	1010	997	489	503	417	168
21	243	200	803	2060	847	1860	1020	812	268	302	286	193
22	332	241	606	1030	1000	1830	890	773	446	225	211	288
23	399	187	297	4810	620	1410	769	718	299	538	199	359
24	387	203	706	5470	404	894	1270	713	270	651	322	277
25	472	245	760	5590	747	1330	928	864	460	632	258	669
26	481	499	788	3760	632	1240	653	542	540	437	204	858
27	225	378	990	3070	626	1410	390	675	573	717	608	2530
28	251	328	643	2440	839	1200	434	945	324	296	660	3090
29	431	381	337	1290	---	1010	1020	814	475	204	571	1300
30	388	417	326	1110	---	1640	604	789	295	437	299	1110
31	329	---	299	902	---	2430	---	437	---	534	473	---
TOTAL	11620	9244	18938	45643	23933	46265	34382	34746	15325	14521	10540	15731
MEAN	374.8	308.1	610.9	1472	854.8	1492	1146	1121	510.8	468.4	340.0	524.4
MAX	1000	524	1430	5590	1540	7640	2640	2770	1210	773	660	3090
MIN	196	178	250	189	285	219	390	437	232	198	173	168
CFSM	0.56	0.46	0.92	2.21	1.28	2.24	1.72	1.68	0.77	0.70	0.51	0.79
IN.	0.65	0.52	1.06	2.55	1.34	2.58	1.92	1.94	0.86	0.81	0.59	0.88

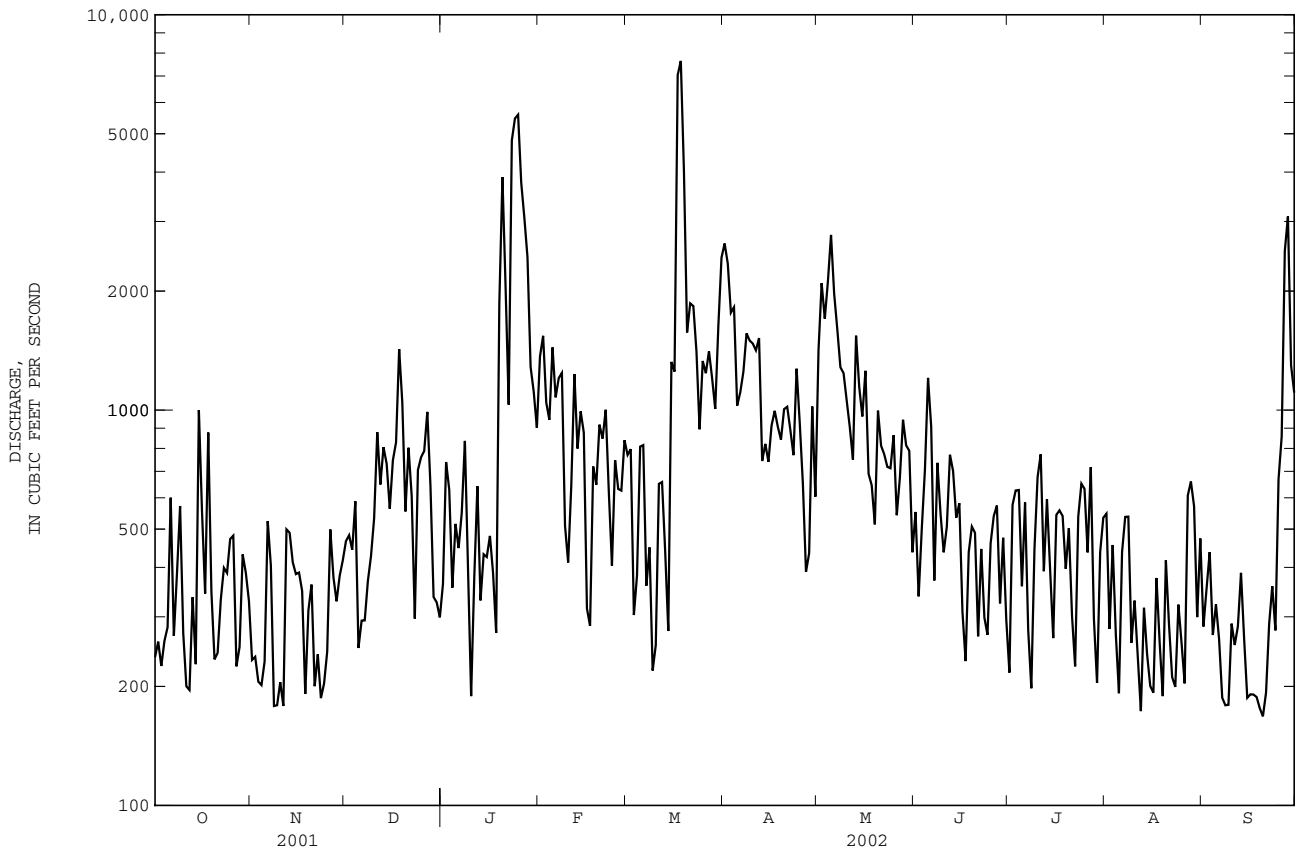
03461500 PIGEON RIVER AT NEWPORT, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1901 - 2002, BY WATER YEAR (WY)

MEAN	624.3	756.0	1227	1594	1814	2174	1803	1314	1062	894.8	765.8	605.0
MAX	2263	2265	3271	3407	4762	5136	4270	2693	2436	2498	2229	2182
(WY)	1965	1980	1962	1974	1957	1963	1903	1929	1967	1916	1928	1928
MIN	148	234	391	369	853	907	716	651	457	328	158	145
(WY)	1979	1954	1904	1981	1904	1915	1967	1914	1925	1925	1925	1953

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1901 - 2002	
ANNUAL TOTAL	305961		280888			
ANNUAL MEAN	838.2		769.6		1221	
HIGHEST ANNUAL MEAN					1787	
LOWEST ANNUAL MEAN					531	
HIGHEST DAILY MEAN	4870	Jan 20	7640	Mar 18	31000	Apr 2 1920
LOWEST DAILY MEAN	178	Nov 8	168	Sep 20	48	Sep 21 1953
ANNUAL SEVEN-DAY MINIMUM	242	Nov 18	185	Sep 15	65	Nov 7 1980
MAXIMUM PEAK FLOW			15900	Mar 17	50000	Feb 28 1902
MAXIMUM PEAK STAGE			11.06	Mar 17	a23.40	Feb 28 1902
INSTANTANEOUS LOW FLOW			143	Jun 24	38	Oct 5 1952
ANNUAL RUNOFF (CFSM)	1.26		1.16		1.83	
ANNUAL RUNOFF (INCHES)	17.09		15.69		24.91	
10 PERCENT EXCEEDS	1610		1430		2410	
50 PERCENT EXCEEDS	648		534		916	
90 PERCENT EXCEEDS	266		225		326	

a Present datum, under present conditions the stage for this flood would be about 1.9 ft lower, due to removal of dam 1.3 mi downstream in 1945, from reports of Tennessee Valley Authority.



TENNESSEE RIVER BASIN

03465500 NOLICHUCKY RIVER AT EMBREEVILLE, TN

LOCATION.--Lat 36°10'35", long 82°27'27", Washington County, Hydrologic Unit 06010108, on left bank, at Embreeville, 1,000 ft upstream from bridge on State Highway 81, 3 mi northwest of Erwin, 5.2 mi downstream from North Indian Creek, and at mile 89.0.

DRAINAGE AREA.--805 mi².

PERIOD OF RECORD.--September 1900 to May 1901 (published as "near Chucky Valley"), October 1919 to current year. Monthly discharge only October 1919 to June 1920, published in WSP 1306.

REVISED RECORDS.--WSP 803: 1935(M). WSP 823: Drainage area. WSP 1336: 1921-24, 1931(M).

GAGE.--Data collection platform. Datum of gage is 1,519.30 ft above NGVD of 1929. Sept. 1, 1900 to May 21, 1901, nonrecording gage at site 3 mi downstream at different datum, destroyed by flood of May 21, 1901. July 1, 1920 to Sept. 30, 1931, nonrecording gage at bridge 2,000 ft downstream at datum 6.33 ft lower.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 21, 1901, reached a stage of 24 ft, discharge, 120,000 ft³/s, present site and datum, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,500 and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 23	2200	14,800	6.29	Mar 17	2345	*15,000	*6.34
Jan 25	0815	9,510	5.03				

Minimum discharge, 109 ft³/s, Sept. 13, 14.

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	370	322	433	401	1280	555	3800	906	521	466	243	233
2	360	323	458	379	1150	597	2960	1040	491	402	230	221
3	351	325	393	450	1050	861	2310	1210	475	712	235	230
4	335	321	372	424	994	915	1910	1340	464	1020	263	221
5	330	312	358	349	893	671	1640	1520	596	685	238	207
6	332	304	350	447	865	651	1470	1300	1160	580	205	201
7	328	298	352	588	1140	649	1330	1120	1180	448	187	171
8	319	295	365	499	1600	628	1230	1020	917	389	175	154
9	308	295	390	386	1350	621	1200	932	669	404	164	144
10	304	292	411	534	1220	626	1480	863	585	368	158	135
11	305	290	1110	719	1180	610	1360	809	526	348	153	124
12	314	290	1170	772	1090	596	1180	754	481	374	153	116
13	339	287	845	654	1010	766	1140	794	457	362	152	111
14	389	284	971	571	943	1120	1190	1190	568	434	149	110
15	1090	283	828	528	890	916	1140	970	602	528	145	143
16	672	283	690	503	860	869	1060	789	495	457	245	276
17	475	284	634	476	822	5720	997	722	441	374	299	389
18	413	285	1370	477	775	11900	1130	785	409	361	272	293
19	394	285	1460	1030	738	5890	1110	950	388	e360	233	231
20	383	293	1030	4610	733	3550	1020	781	375	e340	251	210
21	378	289	843	2510	756	2870	957	711	395	e320	253	225
22	372	280	731	1790	727	2320	927	683	358	e300	219	294
23	364	280	672	6170	680	1900	872	658	337	e400	181	794
24	357	299	718	9290	652	1660	812	627	332	487	179	665
25	358	489	751	8330	632	1480	1020	596	342	532	202	390
26	351	907	634	4860	633	1370	1100	565	345	539	279	757
27	331	539	581	3110	628	1550	940	564	486	415	418	3810
28	321	426	532	2320	591	1370	897	806	729	368	479	3090
29	322	391	565	1880	---	1220	888	711	783	315	353	1250
30	323	377	506	1610	---	1470	824	576	584	283	284	801
31	323	---	439	1420	---	3240	---	546	---	258	240	---
TOTAL	11911	10228	20962	58087	25882	59161	39894	26838	16491	13629	7237	15996
MEAN	384.2	340.9	676.2	1874	924.4	1908	1330	865.7	549.7	439.6	233.5	533.2
MAX	1090	907	1460	9290	1600	11900	3800	1520	1180	1020	479	3810
MIN	304	280	350	349	591	555	812	546	332	258	145	110
MED	351	295	634	654	877	1120	1140	794	489	400	233	227
CFSM	0.48	0.42	0.84	2.33	1.15	2.37	1.65	1.08	0.68	0.55	0.29	0.66
IN.	0.55	0.47	0.97	2.68	1.20	2.73	1.84	1.24	0.76	0.63	0.33	0.74

e Estimated

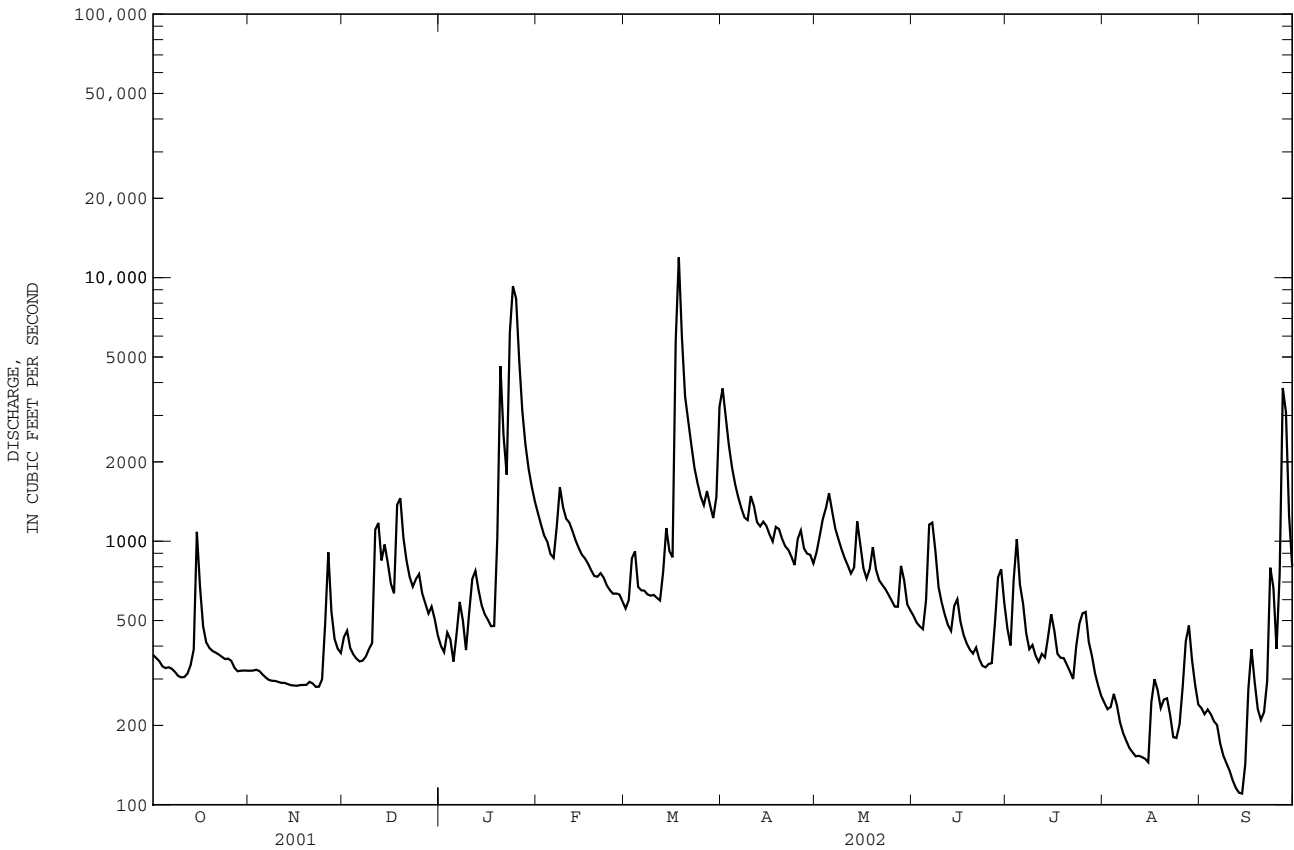
03465500 NOLICHUCKY RIVER AT EMBREEVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2002, BY WATER YEAR (WY)

MEAN	801.4	996.8	1268	1706	2035	2339	2008	1560	1116	933.9	912.9	754.3
MAX	2630	4720	3073	4020	4494	5102	4169	3171	3196	2525	4876	2648
(WY)	1930	1978	1962	1995	1957	1963	1983	1984	1992	1949	1940	1928
MIN	246	294	353	382	635	649	699	586	376	351	182	187
(WY)	1954	1940	1940	1940	1941	1988	1986	2001	1988	1988	1925	1925

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1920 - 2002	
ANNUAL TOTAL	340194		306316			
ANNUAL MEAN	932.0		839.2		1364	
HIGHEST ANNUAL MEAN					1948	
LOWEST ANNUAL MEAN					694	
HIGHEST DAILY MEAN	9750	Aug 13	11900	Mar 18	50800	Nov 6 1977
LOWEST DAILY MEAN	280	Nov 22	110	Sep 14	88	Sep 8 1925
ANNUAL SEVEN-DAY MINIMUM	284	Nov 13	126	Sep 9	121	Sep 3 1925
MAXIMUM PEAK FLOW			15000		a110000	
MAXIMUM PEAK STAGE			6.34		21.52	
INSTANTANEOUS LOW FLOW			b109		c85	
ANNUAL RUNOFF (CFSM)	1.16		1.04		1.70	
ANNUAL RUNOFF (INCHES)	15.72		14.16		23.03	
10 PERCENT EXCEEDS	1720		1390		2550	
50 PERCENT EXCEEDS	636		539		992	
90 PERCENT EXCEEDS	329		239		393	

a From rating curve extended above 48,000 ft³/s on basis of contracted opening and slope-area measurements of peak flow.
 b Also occurred on Sept. 14.
 c Also occurred on Sept. 9, 1925.



TENNESSEE RIVER BASIN

03466208 BIG LIMESTONE CREEK NEAR LIMESTONE, TN

LOCATION.--Lat 36°12'21", long 82°39'02", Greene County, Hydrologic Unit 06010108, on right bank, 0.6 mi above confluence with Nolichucky River, 1.8 mi southwest of Limestone, and at mile 0.6.

DRAINAGE AREA.--79.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1996 to February 2000, August 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,340 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data.

EXTREMES FOR PERIOD.--Maximum discharge, 10,400 ft³/s, Aug. 4, 2001, gage height, 12.33 ft minimum, 8.6 ft³/s, Sept. 18, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,540 ft³/s, Mar. 18, gage height, 5.20 ft; minimum discharge, 8.6 ft³/s, Sept. 18.

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	52	36	28	29	114	52	135	70	36	26	13	14
2	52	36	27	37	107	53	115	67	35	22	13	14
3	52	35	27	26	103	54	108	76	38	23	13	13
4	49	35	27	25	99	51	102	64	37	28	12	13
5	46	34	27	25	93	49	98	57	39	22	12	13
6	49	34	27	26	92	49	94	50	40	21	12	12
7	49	34	29	27	103	48	92	48	42	20	11	12
8	46	33	31	25	110	47	90	65	36	19	11	12
9	46	33	34	25	98	47	91	52	38	19	11	12
10	45	32	36	25	93	46	91	51	37	19	11	11
11	43	32	65	27	88	45	83	51	27	19	10	11
12	43	32	40	25	83	46	82	46	33	18	10	10
13	43	31	74	24	81	48	82	53	30	20	9.9	9.7
14	40	31	69	24	80	47	81	58	36	23	10	9.9
15	42	31	44	24	77	45	79	48	32	22	12	10
16	41	31	38	23	75	48	78	45	31	20	14	11
17	40	31	40	23	73	329	75	43	26	18	14	11
18	41	32	68	24	71	1080	75	47	25	18	13	9.8
19	40	31	50	79	70	294	74	43	24	19	13	9.6
20	40	31	42	144	70	203	72	41	23	26	19	10
21	39	30	37	88	69	183	73	40	23	19	13	12
22	39	29	36	72	66	164	74	39	22	16	12	17
23	38	30	35	338	65	155	73	38	22	16	12	20
24	37	32	37	295	59	149	72	37	22	16	14	15
25	38	32	33	310	58	142	84	36	22	18	14	13
26	37	30	32	184	57	142	72	34	22	19	28	28
27	35	29	31	160	54	136	66	33	29	15	48	28
28	36	29	30	148	53	129	70	34	53	14	18	20
29	36	28	29	136	---	123	69	33	35	14	16	17
30	36	33	28	127	---	122	58	33	26	13	15	16
31	36	---	27	119	---	137	---	32	---	13	14	---
TOTAL	1306	957	1178	2664	2261	4263	2508	1464	941	595	447.9	414.0
MEAN	42.13	31.90	38.00	85.94	80.75	137.5	83.60	47.23	31.37	19.19	14.45	13.80
MAX	52	36	74	338	114	1080	135	76	53	28	48	28
MIN	35	28	27	23	53	45	58	32	22	13	9.9	9.6
CFSM	0.53	0.40	0.48	1.09	1.02	1.74	1.06	0.60	0.40	0.24	0.18	0.17
IN.	0.61	0.45	0.55	1.25	1.06	2.01	1.18	0.69	0.44	0.28	0.21	0.19

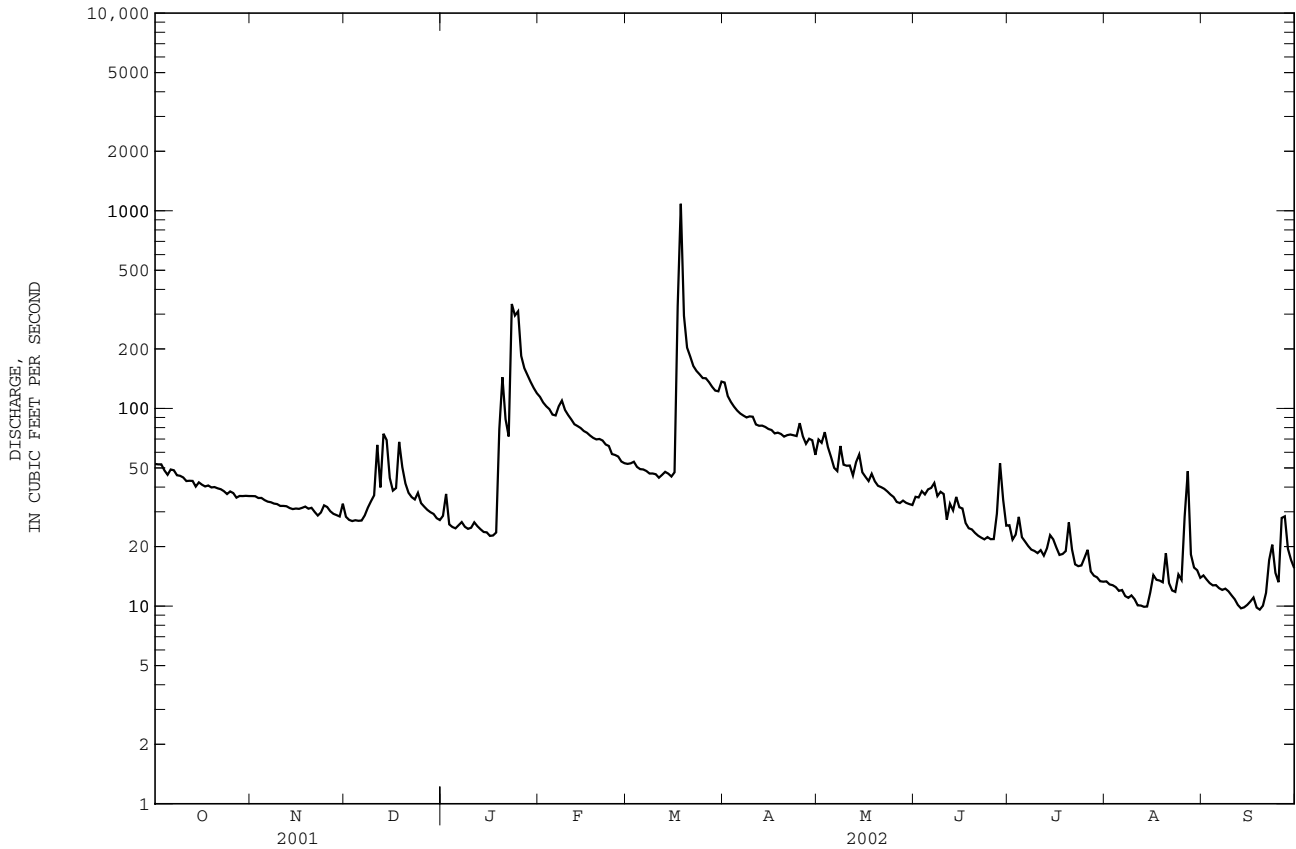
03466208 BIG LIMESTONE CREEK NEAR LIMESTONE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

MEAN	27.37	31.31	45.29	78.23	100.2	133.6	108.0	85.30	61.21	57.80	69.95	35.17
MAX	42.1	67.5	127	172	175	264	165	137	104	93.0	242	82.2
(WY)	2002	1997	1997	1997	1997	1997	1998	1998	1998	1998	2001	2001
MIN	16.0	19.0	17.1	26.7	41.6	93.2	73.9	39.7	31.4	19.2	14.4	13.8
(WY)	2000	2000	2000	2000	2000	2001	1999	2001	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1996 - 2002	
ANNUAL TOTAL	26145		18998.9			
ANNUAL MEAN	71.63		52.05		68.88	
HIGHEST ANNUAL MEAN					106	1997
LOWEST ANNUAL MEAN					29.0	2000
HIGHEST DAILY MEAN	3790	Aug 4	1080	Mar 18	3790	Aug 4 2001
LOWEST DAILY MEAN	14	Jan 6	9.6	Sep 19	9.6	Sep 19 2002
ANNUAL SEVEN-DAY MINIMUM	15	Jan 12	10	Sep 13	10	Sep 13 2002
MAXIMUM PEAK FLOW			1540	Mar 18	a10400	Aug 4 2001
MAXIMUM PEAK STAGE			5.20	Mar 18	12.33	Aug 4 2001
INSTANTANEOUS LOW FLOW			8.6	Sep 18	8.6	Sep 18 2002
ANNUAL RUNOFF (CFSM)	0.91		0.66		0.87	
ANNUAL RUNOFF (INCHES)	12.31		8.95		11.85	
10 PERCENT EXCEEDS	117		98		135	
50 PERCENT EXCEEDS	43		36		46	
90 PERCENT EXCEEDS	26		13		18	

a From rating curve extended above 3,400 ft³/s on basis of contracted-opening measurements of peak flow.



03466208 BIG LIMESTONE CREEK NEAR LIMESTONE, TN--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- IDY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	
NOV														
20...	1445	21	434	8.2	11.5	726	--	12.4	120	48	--	250	205	
DEC														
11...	1130	53	464	8.2	9.5	732	24	10.0	91	E28000	--	243	199	
JAN														
22...	1500	50	464	8.3	7.0	732	10	12.2	104	390	--	235	193	
FEB														
22...	1430	43	455	8.4	8.0	728	4.1	11.6	103	380	5	244	210	
MAR														
21...	1315	155	431	8.2	13.5	727	36	10.8	109	2400	--	215	176	
APR														
18...	1445	55	430	8.4	21.0	727	6.4	10.4	122	150	4	216	183	
MAY														
29...	1330	24	449	8.2	20.5	725	23	10.2	120	700	--	260	213	
JUN														
20...	1430	16	420	8.4	22.5	733	20	9.3	112	470	--	251	206	
JUL														
25...	1500	12	427	8.3	24.0	734	32	8.2	101	700	--	257	211	
AUG														
08...	1230	8.6	442	8.3	22.5	728	22	8.9	108	530	--	246	202	
SEP														
04...	1500	9.2	434	8.3	24.0	725	16	8.7	109	680	--	248	204	
Date		SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)
NOV														
20...	8.8	6.32	1.34	.008	1.35	<.04	.23	1.6	.024	<.02	<.002	<.004	.026	
DEC														
11...	13.4	8.87	1.66	.026	1.69	.12	.84	2.5	.076	.13	--	--	--	
JAN														
22...	17.7	11.2	2.26	.013	2.27	E.03	.42	2.7	.051	.07	<.004	<.006	.022	
FEB														
22...	9.5	7.64	2.19	.008	2.20	<.04	.25	2.4	.020	.03	--	--	--	
MAR														
21...	11.3	8.71	2.74	.010	2.75	E.03	.47	3.2	.068	.07	<.004	<.006	.025	
APR														
18...	8.2	6.00	1.82	.018	1.84	<.04	.27	2.1	.058	.03	<.004	<.006	.027	
MAY														
29...	8.2	6.65	1.68	.019	1.70	<.04	.35	2.0	.097	.05	--	--	--	
JUN														
20...	8.1	6.33	--	E.006	1.25	<.04	.28	1.5	.097	.05	<.004	<.006	.040	
JUL														
25...	9.1	6.75	1.26	.010	1.27	<.04	.38	1.7	.114	.06	<.004	<.006	.030	
AUG														
08...	8.6	6.55	1.15	.009	1.16	<.04	.29	1.4	.100	.05	<.004	<.006	.025	
SEP														
04...	9.7	6.79	--	E.007	1.24	<.04	.38	1.6	.106	.07	<.004	<.006	.023	

E--Estimated

03466208 BIG LIMESTONE CREEK NEAR LIMESTONE, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ALPHA BHC	BUTYL-ATE,	CHLOR-PYRIFOS	CYANA-ZINE,	DEETHYL ATRA-ZINE,	DI-AZINON,	DI-ELDRIN	FONOFOS	LINDANE	MALA-THON,	METRI-BUZIN	METO-LACHLOR	P, P' DDE
	DIS-SOLVED (UG/L) (34253)	WATER, DISS, REC (UG/L) (04028)	DIS-SOLVED (UG/L) (38933)	WATER, DISS, REC (UG/L) (04041)	WATER, DISS, REC (UG/L) (04040)	DIS-SOLVED (UG/L) (39572)	DIS-SOLVED (UG/L) (39381)	WATER DISS REC (UG/L) (04095)	DIS-SOLVED (UG/L) (39341)	DIS-SOLVED (UG/L) (39532)	WATER DISSOLV (UG/L) (82630)	WATER DISSOLV (UG/L) (39415)	DISSOLV (UG/L) (34653)
NOV 20...	<.005	<.002	<.005	<.018	E.035	<.005	<.005	<.003	<.004	<.027	<.006	E.004	<.003
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	<.005	<.002	<.005	<.018	E.031	.009	<.005	<.003	<.004	<.027	<.006	.024	<.003
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<.005	<.002	<.005	<.018	E.015	E.005	<.005	<.003	<.004	<.027	<.006	.013	<.003
APR 18...	<.005	<.002	<.005	<.018	E.025	<.005	<.005	<.003	<.004	<.027	<.006	E.011	<.003
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 20...	<.005	<.002	<.005	<.018	E.049	<.005	<.005	<.003	<.004	<.027	<.006	E.011	<.003
JUL 25...	<.005	<.002	<.005	<.018	E.026	<.005	<.005	<.003	<.004	<.027	<.006	.021	<.003
AUG 08...	<.005	<.002	<.005	<.018	E.028	<.005	<.005	<.003	<.004	<.027	<.006	.019	<.003
SEP 04...	<.005	<.002	<.005	<.018	E.033	<.005	<.005	<.003	<.004	<.027	<.006	.015	<.003

Date	PARA-THON,	PROPA-CHLOR,	PRO-METON,	SI-MAZINE,	BEN-FLUR-ALIN	CAR-BARYL	CARBO-FURAN	DCPA	2,6-DI-ETHYL	DISUL-FOTON	ETHAL-FLUR-ALIN	ETHO-PROP	EPIC
	DIS-SOLVED (UG/L) (39542)	WATER, DISS, REC (UG/L) (04024)	WATER, DISS, REC (UG/L) (04037)	WATER, DISS, REC (UG/L) (04035)	WAT FLD 0.7 U GF, REC (UG/L) (82673)	WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	WAT FLT 0.7 U GF, REC (UG/L) (82663)	WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
NOV 20...	<.007	<.010	<.01	<.011	<.010	<.041	<.020	<.003	<.002	<.02	<.009	<.005	<.002
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	<.010	<.010	<.01	<.005	<.010	<.041	<.020	<.003	<.006	<.02	<.009	<.005	<.002
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<.010	<.010	<.01	<.005	<.010	<.041	<.020	<.003	<.006	<.02	<.009	<.005	<.002
APR 18...	<.010	<.010	<.01	<.005	<.010	<.041	<.020	<.003	<.006	<.02	<.009	<.005	<.002
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 20...	<.010	<.010	<.01	E.004	<.010	E.009	<.020	<.003	<.006	<.02	<.009	<.005	<.002
JUL 25...	<.010	<.010	<.01	<.005	<.010	<.041	<.020	<.003	<.006	<.02	<.009	<.005	<.002
AUG 08...	<.010	<.010	<.01	<.005	<.010	<.041	<.020	<.003	<.006	<.02	<.009	<.005	<.002
SEP 04...	<.010	<.010	<.01	.005	<.010	<.041	<.020	<.003	<.006	<.02	<.009	<.005	<.002

E--Estimated

TENNESSEE RIVER BASIN

03466208 BIG LIMESTONE CREEK NEAR LIMESTONE, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NOV 20...	<.035	<.050	<.006	<.002	<.007	<.002	<.010	<.006	<.011	<.004	<.011	<.02	<.02
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	<.035	<.050	<.006	<.002	<.007	<.004	<.022	<.006	<.011	<.004	<.011	<.02	<.02
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<.035	<.050	<.006	<.002	<.007	<.004	<.022	<.006	<.011	<.004	<.011	<.02	E.01
APR 18...	<.035	<.050	<.006	<.002	<.007	<.004	<.022	<.006	<.011	<.004	<.011	<.02	<.02
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 20...	<.035	<.050	<.006	<.002	<.007	<.004	<.022	<.006	<.011	<.004	<.011	<.02	E.01
JUL 25...	<.035	<.050	<.006	<.002	<.007	<.004	<.022	<.006	<.011	<.004	<.011	<.02	<.02
AUG 08...	<.035	<.050	<.006	<.002	<.007	<.004	<.022	<.006	<.011	<.004	<.011	<.02	<.02
SEP 04...	<.035	<.050	<.006	<.002	<.007	<.004	<.022	<.006	<.011	<.004	<.011	<.02	<.02

Date	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI-MENT, SUS-PENDEED (MG/L) (80154)
NOV 20...	<.034	<.02	<.002	<.009	<.005	6.2
DEC 11...	--	--	--	--	--	15
JAN 22...	<.034	<.02	<.002	<.009	<.005	13
FEB 22...	--	--	--	--	--	29
MAR 21...	<.034	<.02	<.002	<.009	<.005	111
APR 18...	<.034	<.02	<.002	<.009	<.005	111
MAY 29...	--	--	--	--	--	80
JUN 20...	<.034	<.02	<.002	<.009	<.005	26
JUL 25...	<.034	<.02	<.002	<.009	<.005	31
AUG 08...	<.034	<.02	<.002	<.009	<.005	19
SEP 04...	<.034	<.02	<.002	<.009	<.005	20

E--Estimated

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TENNESSEE RIVER BASIN

03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN

LOCATION.--Lat 36°07'34", long 83°10'31", Cocke County, Hydrologic Unit 06010108, on left bank at Jones Bridge on Tennessee Highway 160, 2.85 mi southeast of Lowland, and at river mile 10.3.

DRAINAGE AREA.-- 1,687 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Operated by Tennessee Valley Authority as stage-discharge site from March 1990 to April 2001. Not published by the USGS. Re-established as stage discharge recording station by USGS personnel October 2001 to September 2002. Operated as a water-quality site from March 1996 to February 1998 (destroyed by flood of February 1998). Re-established November 1998, discontinued as water quality site October 2000.

GAGE.--Electronic data logger.

REMARKS.--Records good except for estimated daily discharges for October 1 and Jan. 10-23, which are fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,500 ft³/s, Mar. 18, gage height 21.72 ft; minimum discharge, 208 ft³/s, Sept. 13, 15-16.

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	e720	534	614	760	2610	1140	5310	1440	848	867	414	455
2	701	546	580	681	2410	1100	5350	1530	807	707	390	391
3	681	552	658	656	2180	1100	4030	2110	768	610	372	372
4	666	536	628	706	2050	1250	3250	2060	750	678	339	346
5	650	527	580	727	1920	1470	2780	2080	732	1220	331	330
6	660	530	557	661	1800	1220	2470	2080	752	968	363	320
7	642	515	560	672	1840	1130	2230	1810	1320	783	339	311
8	622	511	579	819	2270	1150	2070	1650	1490	669	305	292
9	617	510	585	831	2750	1130	1970	1680	1260	599	289	272
10	598	519	635	e700	2380	1090	1950	1520	965	590	294	259
11	586	504	816	e900	2180	1080	2140	1420	855	625	308	242
12	584	502	1220	e1200	2070	1080	2000	1320	767	547	281	234
13	588	504	1970	e1300	1950	1070	1820	1360	732	538	280	225
14	583	498	1720	e1000	1830	1180	1760	1760	738	601	259	226
15	600	494	1560	e900	1740	1540	1790	1810	762	603	297	225
16	1110	497	1280	e800	1660	1450	1750	1490	833	687	316	212
17	1030	504	1120	e700	1570	4700	1650	1260	764	702	318	252
18	771	486	1390	e600	1510	20400	1560	1220	689	601	363	389
19	682	482	1930	e1000	1460	22300	1640	1200	641	525	434	468
20	649	500	2080	e2500	1430	11800	1620	1340	609	540	445	384
21	627	500	1560	e4500	1420	6820	1500	1220	575	509	409	373
22	609	496	1310	e6000	1420	4750	1450	1110	560	476	412	397
23	594	496	1130	e8000	1390	3680	1380	1070	559	485	418	426
24	584	506	1090	17200	1280	3110	1330	1050	522	1210	390	629
25	606	503	1110	17600	1250	2780	1510	1010	508	765	369	958
26	598	521	1120	14100	1220	2540	1550	960	500	972	406	893
27	582	1030	1020	7980	1190	2420	1560	917	517	848	681	981
28	544	872	936	5110	1160	2480	1370	884	575	647	917	3810
29	530	693	884	3780	---	2270	1410	1050	898	535	1040	2860
30	540	649	844	3310	---	2200	1350	1020	966	501	730	1480
31	537	---	828	2860	---	3360	---	893	---	445	561	---
TOTAL	20091	16517	32894	108553	49940	114790	63550	43324	23262	21053	13070	19012
MEAN	648.1	550.6	1061	3502	1784	3703	2118	1398	775.4	679.1	421.6	633.7
MAX	1110	1030	2080	17600	2750	22300	5350	2110	1490	1220	1040	3810
MIN	530	482	557	600	1160	1070	1330	884	500	445	259	212

e Estimated

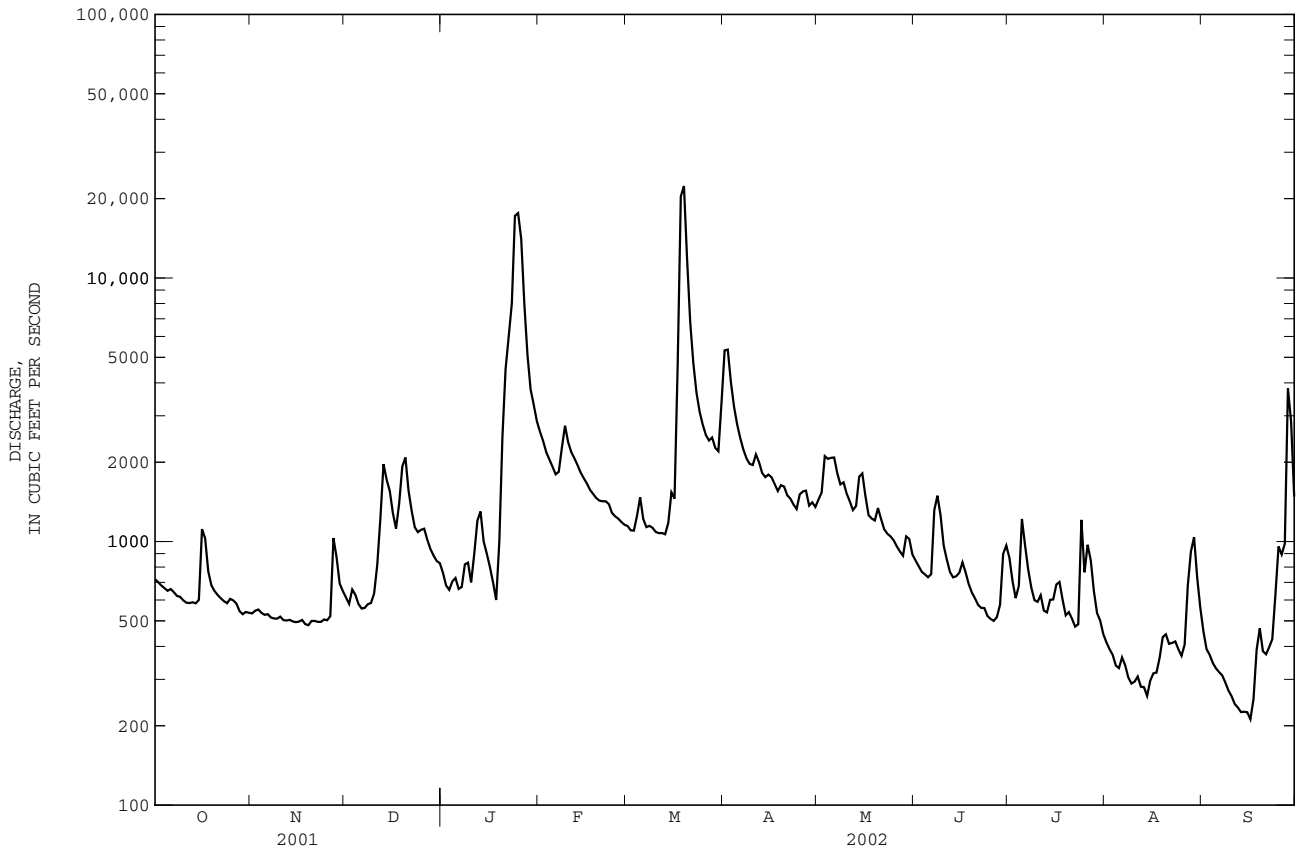
TENNESSEE RIVER BASIN
03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

MEAN	651.3	895.1	1372	2813	3057	3656	3128	2551	1623	1388	1063	684.9
MAX	944	1787	3191	4077	5804	6211	5946	4148	2405	2094	1900	1005
(WY)	1997	1997	1997	1998	1998	1997	1998	1998	1998	1999	1996	1996
MIN	458	535	653	1268	1784	2515	1673	1398	775	679	422	477
(WY)	2001	1999	2001	2001	2002	2000	1999	2002	2002	2002	2002	1999

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1996 - 2002	
ANNUAL TOTAL	332566		526056			
ANNUAL MEAN	1576		1441		1952	
HIGHEST ANNUAL MEAN					2643	
LOWEST ANNUAL MEAN					1441	
HIGHEST DAILY MEAN	9270	Feb 17	22300	Mar 19	22900	Jan 9 1998
LOWEST DAILY MEAN	471	Jan 12	212	Sep 16	212	Sep 16 2002
ANNUAL SEVEN-DAY MINIMUM	494	Nov 14	231	Sep 11	231	Sep 11 2002
MAXIMUM PEAK FLOW			26500		26500	
MAXIMUM PEAK STAGE			21.72		21.72	
INSTANTANEOUS LOW FLOW			a208		a208	
10 PERCENT EXCEEDS	3410		2390		3910	
50 PERCENT EXCEEDS	986		844		1310	
90 PERCENT EXCEEDS	516		390		517	

a Also occurred Sept. 15, 16, 2002.



TENNESSEE RIVER BASIN

03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 36°07'34", long 83°10'31", Cocke County, Hydrologic Unit 06010108, on left bank at Jones Bridge on Tennessee Highway 160, 2.85 mi southeast of Lowland, and at mile 10.3.

DRAINAGE AREA.--1,687 mi².

PERIOD OF RECORD.--March 1996 to February 1998 (destroyed by flood of February 1998). Re-established November 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-A-TURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)
NOV 20...	1130	484	235	8.1	16.0	739	--	10.8	113	E11	--	114	93
JAN 22...	1100	3350	141	7.6	5.5	745	75	11.5	93	1400	--	45	37
FEB 22...	1045	1300	220	8.2	8.0	739	2.0	10.7	93	E15	--	98	80
MAR 20...	1300	11300	142	7.6	13.5	730	94	9.0	90	1800	--	55	45
APR 18...	1030	1600	191	8.4	20.5	738	9.2	8.0	92	E19	--	85	70
MAY 30...	1400	1080	194	8.7	24.0	731	7.2	11.1	138	E11	2	100	86
JUN 20...	1100	601	199	8.1	24.5	739	14	7.8	96	E32	--	96	79
JUL 25...	1115	746	239	7.8	26.0	735	120	7.4	95	2400	--	106	87
SEP 04...	1030	352	207	8.2	27.0	736	15	6.9	90	42	--	87	71

Date	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS-SOLVED (UG/L) (34253)
NOV 20...	10.8	7.61	<.008	.32	<.04	.22	.54	.012	<.02	<.002	<.004	E.007	<.005
JAN 22...	13.2	6.82	E.006	.96	.04	.77	1.7	.081	.03	<.004	<.006	.008	<.005
FEB 22...	12.7	6.28	E.004	.76	<.04	.16	.92	.005	<.02	--	--	--	--
MAR 20...	9.8	3.47	E.006	.65	E.02	.80	1.5	.112	.09	<.004	<.006	<.007	<.005
APR 18...	10.2	4.06	E.004	.40	<.04	.24	.64	.029	<.02	<.004	<.006	.011	<.005
MAY 30...	8.6	4.28	E.004	.29	<.04	.24	.53	.030	<.02	--	--	--	--
JUN 20...	9.4	6.35	<.008	.27	<.04	.20	.47	.038	<.02	<.004	<.006	.037	<.005
JUL 25...	16.2	7.19	.016	.67	<.04	.66	1.3	.19	.07	<.004	<.006	.164	<.005
SEP 04...	12.6	7.75	E.004	.37	<.04	.28	.65	.066	.03	<.004	<.006	.020	<.005

E--Estimated

TENNESSEE RIVER BASIN

03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL				FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THON, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P, P' DDE DISSOLV (UG/L) (34653)	PARA- THON, DIS- SOLVED (UG/L) (39542)
				DEETHYL WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)							
NOV 20...	<.002	<.005	<.018	E.007	<.005	<.005	<.003	<.004	<.027	<.006	E.002	<.003	<.007	
JAN 22...	<.002	<.005	<.018	E.005	<.005	<.005	<.003	<.004	<.027	<.006	E.005	<.003	<.010	
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--	--	
MAR 20...	<.002	<.005	<.018	<.006	.007	<.005	<.003	<.004	<.027	<.006	E.005	<.003	<.010	
APR 18...	<.002	<.005	<.018	E.007	<.005	<.005	<.003	<.004	<.027	<.006	E.011	<.003	<.010	
MAY 30...	--	--	--	--	--	--	--	--	--	--	--	--	--	
JUN 20...	<.002	<.005	<.018	E.011	<.005	<.005	<.003	<.004	<.027	<.006	E.009	<.003	<.010	
JUL 25...	<.002	<.005	<.018	E.027	<.005	<.005	<.003	<.004	<.027	.018	.034	<.003	<.010	
SEP 04...	<.002	<.005	<.018	E.008	<.005	<.005	<.003	<.004	<.027	<.006	.017	<.003	<.010	
NOV 20...	<.010	<.01	<.011	<.010	<.041	<.020	<.003	<.002	<.02	<.009	<.005	<.002	<.035	
JAN 22...	<.010	<.01	.009	<.010	E.007	<.020	<.003	<.006	<.02	<.009	<.005	<.002	<.035	
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--	--	
MAR 20...	<.010	<.01	.013	<.010	<.041	<.020	<.003	<.006	<.02	<.009	<.005	<.002	<.035	
APR 18...	<.010	<.01	.013	<.010	<.041	<.020	<.003	<.006	<.02	<.009	<.005	<.002	<.035	
MAY 30...	--	--	--	--	--	--	--	--	--	--	--	--	--	
JUN 20...	<.010	<.01	.020	<.010	<.041	<.020	<.003	<.006	<.02	<.009	<.005	<.002	<.035	
JUL 25...	<.010	<.01	.011	<.010	E.014	<.020	<.003	<.006	<.02	<.009	<.005	<.002	<.035	
SEP 04...	<.010	E.01	.011	<.010	<.041	<.020	<.003	<.006	<.02	<.009	<.005	<.002	<.035	

TENNESSEE RIVER BASIN

03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
NOV 20...	<.050	<.006	<.002	<.007	<.002	<.010	<.006	<.011	<.004	<.011	<.02	E.01	<.034
JAN 22...	<.050	<.006	<.002	<.007	<.004	<.022	<.006	<.011	<.004	<.011	<.02	.04	<.034
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 20...	<.050	<.006	<.002	<.007	<.004	<.022	<.006	<.011	<.004	<.011	<.02	.04	<.034
APR 18...	<.050	<.006	<.002	<.007	<.004	<.022	<.006	<.011	<.004	<.011	<.02	E.01	<.034
MAY 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 20...	<.050	<.006	<.002	<.007	<.004	<.022	<.006	<.011	<.004	<.011	<.02	E.01	<.034
JUL 25...	<.050	<.006	<.002	.037	<.004	<.022	<.006	<.011	<.004	<.011	<.02	<.02	<.034
SEP 04...	<.050	<.006	<.002	<.007	<.004	<.022	<.006	<.011	<.004	<.011	<.02	E.01	<.034

Date	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
NOV 20...	<.02	<.002	<.009	<.005	1.6
JAN 22...	<.02	<.002	<.009	<.005	72
FEB 22...	--	--	--	--	2.5
MAR 20...	<.02	<.002	<.009	<.005	98
APR 18...	<.02	<.002	<.009	<.005	10
MAY 30...	--	--	--	--	9.7
JUN 20...	<.02	<.002	<.009	<.005	9.5
JUL 25...	<.02	<.002	<.009	<.005	90
SEP 04...	<.02	<.002	<.009	<.005	16

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03469175 LITTLE PIGEON RIVER ABOVE SEVIERVILLE, TN

LOCATION.--Lat 35°51'55", long 83°32'01", Sevier County, Hydrologic Unit 06010107, on left bank of county road, 1.2 mi downstream from East Fork, 1.2 mi upstream from West Prong, 0.8 mi east of Sevierville, and at mi 7.5.

DRAINAGE AREA.-- 184 mi².

PERIOD OF RECORD.--August 1988 to current year.

REVISED RECORD.--WDR TN-94-1: 1989-91 (M): 1992, 1993(P).

GAGE.--Data collection platform. Datum of gage is 898.08 ft above NGVD of 1929.

REMARKS.--Records good. The town of Sevierville diverts an average of about 1.5 ft³/s (1.0 MGD) for municipal supply above gage. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 23	1700	6,740	10.41	Mar 18	1045	8,170	11.65
Mar 17	1600	*12,200	*14.12				

Minimum discharge, 10 ft³/s, Sept. 14.

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	90	42	113	78	277	90	1230	624	108	43	60	42
2	83	42	83	83	247	93	778	536	102	50	57	39
3	78	42	69	74	220	125	549	1180	96	64	51	35
4	74	41	62	67	207	121	429	1520	94	92	45	34
5	70	40	56	67	183	100	359	1170	151	101	43	33
6	72	38	51	76	176	97	314	591	122	62	38	34
7	77	38	52	85	245	93	282	418	119	47	36	28
8	68	37	69	71	274	91	256	330	102	41	33	26
9	64	36	134	65	239	90	276	275	91	60	30	25
10	62	37	177	75	219	107	399	244	81	51	28	24
11	59	40	405	119	213	96	311	218	75	60	27	21
12	52	35	224	148	194	98	266	195	70	81	27	18
13	48	33	475	123	179	137	242	269	68	87	25	18
14	100	35	463	110	164	131	227	376	81	184	24	20
15	140	35	323	103	152	120	218	240	85	168	28	30
16	82	34	219	96	144	294	203	204	72	98	32	42
17	68	34	192	92	136	6240	195	180	65	73	51	29
18	60	35	607	96	126	6480	175	351	59	61	61	25
19	56	35	361	1260	120	2000	181	329	56	62	52	28
20	54	37	252	1780	121	1100	166	244	53	59	71	24
21	54	43	196	729	141	1000	154	212	51	81	55	78
22	50	40	161	483	124	676	171	190	45	65	43	204
23	47	37	143	3410	115	519	159	171	43	103	37	256
24	45	38	193	3300	109	433	141	156	46	119	35	117
25	52	192	155	3350	105	370	311	143	50	266	41	80
26	52	156	133	1490	103	334	265	150	62	255	58	245
27	47	88	118	818	102	371	210	186	60	146	74	595
28	45	69	108	544	93	307	194	165	54	106	94	482
29	45	59	100	421	---	274	219	140	50	94	71	247
30	43	74	90	350	---	620	179	125	47	81	55	148
31	43	---	81	302	---	1550	---	116	---	70	47	---
TOTAL	1980	1542	5865	19865	4728	24157	9059	11248	2258	2930	1429	3027
MEAN	63.87	51.40	189.2	640.8	168.9	779.3	302.0	362.8	75.27	94.52	46.10	100.9
MAX	140	192	607	3410	277	6480	1230	1520	151	266	94	595
MIN	43	33	51	65	93	90	141	116	43	41	24	18
CFSM	0.35	0.28	1.03	3.48	0.92	4.24	1.64	1.97	0.41	0.51	0.25	0.55
IN.	0.40	0.31	1.19	4.02	0.96	4.88	1.83	2.27	0.46	0.59	0.29	0.61

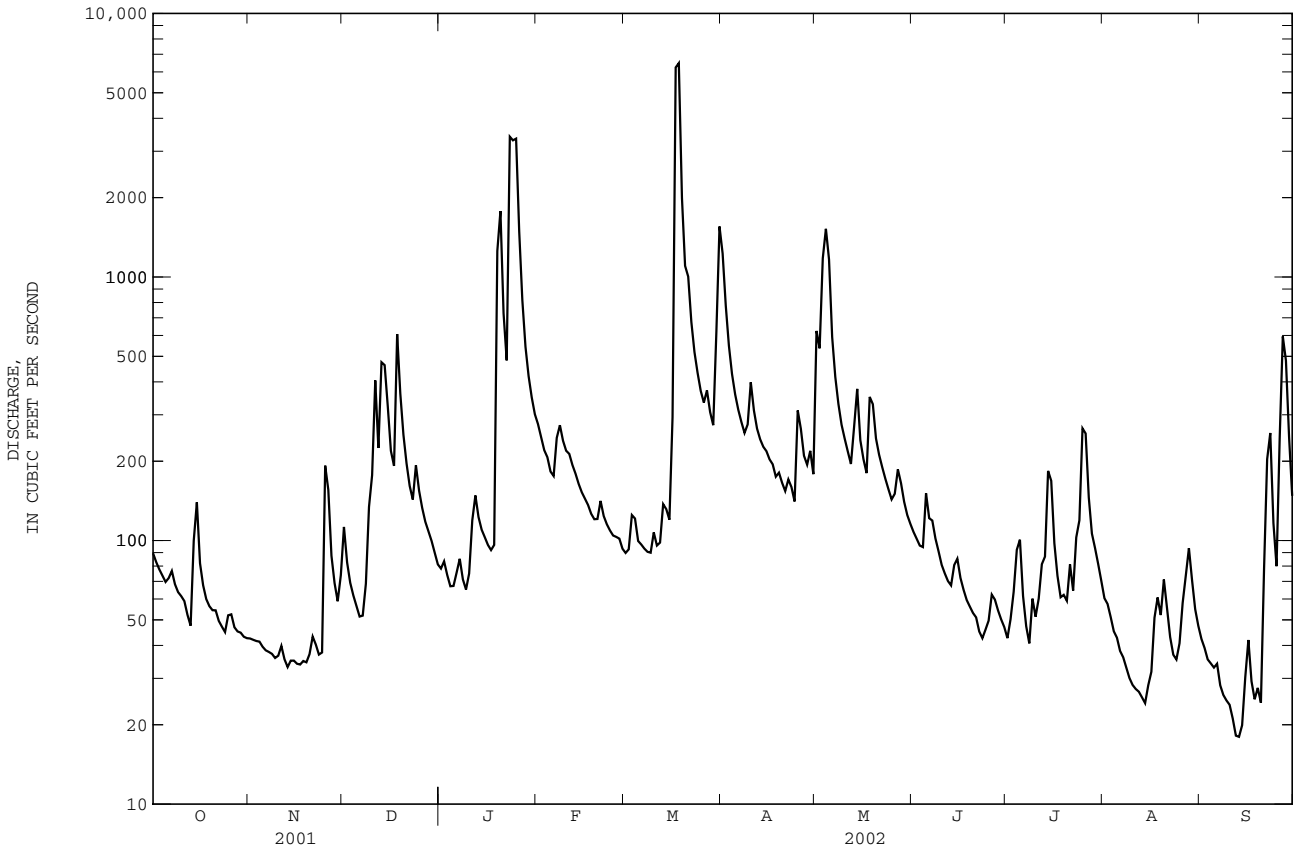
03469175 LITTLE PIGEON RIVER ABOVE SEVIERVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

MEAN	120.8	188.8	336.8	537.4	565.9	678.3	467.9	365.6	309.6	231.5	178.2	141.6
MAX	335	374	743	873	1024	1426	1141	576	635	510	477	530
(WY)	1990	1990	1992	1994	1994	1994	1994	1989	1997	1999	1996	1989
MIN	32.5	51.4	105	245	169	301	124	151	75.3	90.7	46.1	29.8
(WY)	1999	2002	2001	2001	2002	2001	1995	2001	2002	1993	2002	1998

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1988 - 2002	
ANNUAL TOTAL	80693		88088			
ANNUAL MEAN	221.1		241.3		340.4	
HIGHEST ANNUAL MEAN					573 1994	
LOWEST ANNUAL MEAN					123 1988	
HIGHEST DAILY MEAN	2930	Feb 17	6480	Mar 18	10900	Mar 28 1994
LOWEST DAILY MEAN	33	Nov 13	a18	Sep 12	a18	Sep 12 2002
ANNUAL SEVEN-DAY MINIMUM	34	Nov 12	22	Sep 8	20	Sep 14 1998
MAXIMUM PEAK FLOW			12200		19700	
MAXIMUM PEAK STAGE			14.12		17.50	
INSTANTANEOUS LOW FLOW			10		10	
ANNUAL RUNOFF (CFSM)	1.20		1.31		1.85	
ANNUAL RUNOFF (INCHES)	16.31		17.81		25.14	
10 PERCENT EXCEEDS	449		419		733	
50 PERCENT EXCEEDS	132		96		194	
90 PERCENT EXCEEDS	52		36		54	

a Also occurred on Sept. 13, 2002.



03491000 BIG CREEK NEAR ROGERSVILLE, TN

LOCATION.--Lat 36°25'34", long 82°57'07", Hawkins County, Hydrologic Unit 06010104, on left bank 300 ft upstream from county road bridge, 3 mi northeast of Rogersville, and at mile 2.0.

DRAINAGE AREA.--47.3 mi².

PERIOD OF RECORD.--April 1941 to June 1949. Occasional low-flow measurements, water years 1950-55, 1957. Annual maximum, water years 1955-57; October 1957 to current year.

REVISED RECORDS.--WSP 1436: 1945.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 1,128.9 ft above NGVD of 1929 (levels based on City of Rogersville construction plans for pumping station). Dec. 7, 1954, to Sept. 30, 1957, crest-stage gage at same site and datum.

REMARKS.--Records good except for periods of estimated daily values, Dec. 1, 2, 10-18, which are fair. 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 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 25	0330	1,890	5.47	Mar 18	0945	unknown	11.20
Mar 17	1645	1,980	5.57				

Minimum discharge, 1.1 ft³/s, Sept. 8, 9, 10, 11, 12.

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	5.6	4.2	e8.0	5.2	46	11	199	17	9.8	6.8	7.0	2.0
2	5.4	4.0	e7.0	5.1	39	12	124	20	9.5	8.2	5.0	2.0
3	5.7	4.1	6.4	4.9	34	14	94	53	9.5	6.6	4.0	1.9
4	5.2	4.9	5.9	4.7	31	14	74	37	9.4	7.6	3.3	1.8
5	4.8	5.3	5.4	4.6	27	12	61	29	8.4	9.9	2.8	1.5
6	5.7	5.0	5.1	5.3	26	11	54	23	8.2	7.0	2.5	1.6
7	5.4	5.1	5.2	7.1	36	11	48	22	8.1	6.0	2.1	1.5
8	5.8	5.1	5.7	8.6	38	11	43	24	7.7	5.3	1.9	1.2
9	5.8	5.1	7.0	7.6	34	11	42	24	7.5	4.5	1.7	1.2
10	5.8	5.1	e12	7.4	31	11	43	33	6.8	4.3	1.8	1.2
11	5.6	4.9	e20	9.3	28	11	36	26	6.3	4.5	1.8	1.1
12	6.6	4.9	17	15	25	10	33	21	6.1	4.0	1.9	1.3
13	4.7	5.1	e25	13	23	11	32	49	5.8	4.6	1.8	1.4
14	7.0	4.8	e22	10	21	12	30	128	7.6	5.6	1.5	1.6
15	10	4.8	e15	9.2	20	11	29	56	8.8	6.2	1.8	1.8
16	7.0	4.9	e12	8.1	19	16	26	38	8.2	5.5	1.9	1.9
17	4.5	4.8	e19	7.3	18	798	25	31	6.8	4.6	2.3	1.9
18	4.4	4.8	e26	7.5	16	---	23	37	6.4	4.1	2.8	1.9
19	3.9	4.8	24	100	15	472	22	32	5.7	4.1	5.6	1.9
20	4.1	4.9	16	179	16	239	21	24	5.1	6.4	4.5	2.0
21	4.1	4.8	12	71	20	171	21	21	4.9	13	2.9	2.7
22	3.9	4.8	9.5	46	17	126	20	19	4.7	8.9	2.4	4.2
23	4.0	4.9	8.7	463	15	102	19	18	4.5	14	2.2	12
24	3.6	5.6	9.8	685	15	86	17	16	4.4	62	2.3	7.9
25	3.9	7.2	10	880	14	72	25	15	4.3	19	2.2	4.6
26	3.9	8.0	8.9	214	13	65	23	14	5.2	19	3.1	45
27	3.9	7.8	7.9	135	13	61	18	14	5.8	10	4.4	83
28	4.2	6.9	7.2	99	12	52	19	13	8.3	7.7	4.8	30
29	4.1	6.2	6.7	78	---	47	19	12	10	5.8	3.9	18
30	4.2	6.5	6.4	63	---	48	16	12	8.2	4.7	2.9	12
31	4.1	---	5.8	53	---	182	---	11	---	6.9	2.3	---
TOTAL	156.9	159.3	356.6	3205.9	662	2710	1256	889	212.0	286.8	91.4	252.1
MEAN	5.061	5.310	11.50	103.4	23.64	90.33	41.87	28.68	7.067	9.252	2.948	8.403
MAX	10	8.0	26	880	46	798	199	128	10	62	7.0	83
MIN	3.6	4.0	5.1	4.6	12	10	16	11	4.3	4.0	1.5	1.1
CF5M	0.11	0.11	0.24	2.19	0.50	1.91	0.89	0.61	0.15	0.20	0.06	0.18
IN.	0.12	0.13	0.28	2.52	0.52	2.13	0.99	0.70	0.17	0.23	0.07	0.20

e Estimated

03491000 BIG CREEK NEAR ROGERSVILLE, TN--Continued

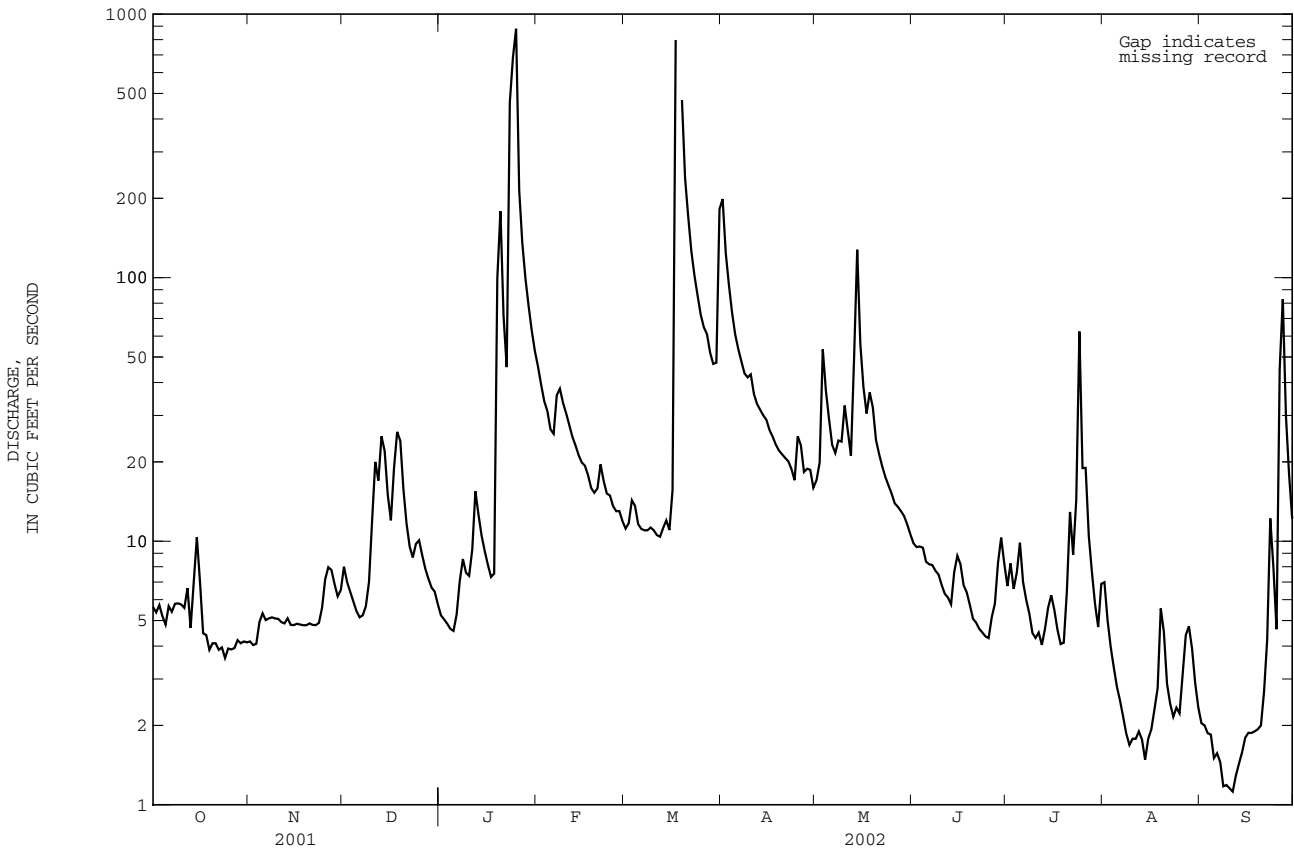
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2002, BY WATER YEAR (WY)

MEAN	14.04	28.76	69.12	103.1	128.9	128.6	88.37	56.59	29.03	22.97	16.63	11.61
MAX	109	124	258	331	472	366	342	206	150	96.5	67.1	58.7
(WY)	1972	1974	1992	1974	1994	1963	1998	1958	1989	1960	1942	1989
MIN	3.19	4.43	5.06	9.33	23.6	27.4	15.4	10.7	7.07	4.35	2.45	2.60
(WY)	2001	1988	1966	1981	2002	1983	1986	1985	2002	1988	1988	1999

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1941 - 2002

ANNUAL TOTAL	9259.9		10238.0		57.77		
ANNUAL MEAN	25.37		28.13		123		1994
HIGHEST ANNUAL MEAN					20.1		2000
LOWEST ANNUAL MEAN					4000		Feb 11 1994
HIGHEST DAILY MEAN	650	Feb 17	880	Jan 25			
LOWEST DAILY MEAN	3.6	Oct 24	1.1	Sep 11	1.1		Sep 11 2002
ANNUAL SEVEN-DAY MINIMUM	3.9	Oct 21	1.3	Sep 7	1.3		Sep 7 2002
MAXIMUM PEAK FLOW			unknown	Mar 18	a5760		Mar 12 1963
MAXIMUM PEAK STAGE			11.20	Mar 18	b12.21		Apr 17 1998
INSTANTANEOUS LOW FLOW			c1.1	Sep 8	c1.1		Sep 8 2002
ANNUAL RUNOFF (CFSM)	0.54		0.59		1.22		
ANNUAL RUNOFF (INCHES)	7.28		8.05		16.59		
10 PERCENT EXCEEDS	58		48		124		
50 PERCENT EXCEEDS	9.2		8.1		22		
90 PERCENT EXCEEDS	4.6		2.5		5.2		

- a From rating curve extended above 3,000 ft³/s on basis of contracted-opening measurements of peak flow.
- b Due to backwater from debris.
- c Also occurred Sept. 9, 10, 11, 12.



TENNESSEE RIVER BASIN

03497300 LITTLE RIVER ABOVE TOWNSEND, TN

LOCATION.--Lat 35°39'52", long 83°42'41", Blount County, Hydrologic Unit 06010201, in Great Smoky Mountains National Park, on left bank along Tennessee Highway 73, 0.3 mi upstream from Rush Branch, 0.4 mi southeast of Park entrance, 2.2 mi southeast of Townsend, and at mile 35.3.

DRAINAGE AREA.--106 mi².

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Data logger and crest-stage gage. Datum of gage is 1,106.92 ft above NGVD of 1929.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 23	0815	3,700	6.04	Mar 18	1145	3,270	5.72
Mar 17	1300	*4,300	*6.47				

Minimum discharge, 33 ft³/s, Sept. 13, 14.

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	96	57	111	123	313	119	842	319	172	80	80	89
2	89	57	94	140	270	133	667	286	158	71	77	81
3	84	56	86	116	245	175	534	497	146	113	71	70
4	79	55	81	105	229	147	432	900	156	195	63	62
5	75	53	77	130	204	135	365	766	142	96	68	56
6	80	52	74	117	215	136	318	531	136	77	58	50
7	77	51	76	113	322	132	285	408	142	66	54	46
8	70	50	90	99	288	128	260	334	118	67	49	43
9	67	50	143	98	280	133	293	295	109	124	47	41
10	64	49	169	115	274	153	295	281	102	85	45	38
11	62	48	394	173	266	128	251	241	95	83	43	35
12	61	48	253	151	245	173	233	215	88	90	43	35
13	66	47	498	138	228	217	223	299	88	116	41	34
14	142	47	604	131	212	206	214	344	118	224	39	36
15	131	46	472	128	199	194	209	262	95	142	49	45
16	89	46	344	121	190	233	198	234	83	104	113	58
17	79	46	346	119	177	1910	213	214	78	85	72	49
18	74	46	649	127	165	2300	186	424	74	78	107	49
19	71	45	503	1430	158	1300	211	343	71	77	62	52
20	70	54	376	1090	171	849	188	299	102	145	59	42
21	68	51	298	688	174	714	179	269	72	132	51	185
22	66	46	249	506	154	574	182	243	65	105	54	337
23	65	45	237	2300	146	479	164	222	63	145	46	205
24	64	60	265	2310	140	406	156	203	68	133	44	132
25	87	201	215	2100	135	351	245	185	84	193	44	116
26	69	139	197	1090	142	350	192	197	78	153	60	286
27	61	95	182	725	133	351	179	288	66	127	203	498
28	60	82	171	542	119	297	177	258	64	107	128	419
29	59	75	160	451	---	274	172	214	90	97	84	274
30	58	110	145	377	---	658	156	194	82	108	77	201
31	58	---	134	325	---	1030	---	193	---	96	75	---
TOTAL	2341	1907	7693	16178	5794	14385	8219	9958	3005	3514	2106	3664
MEAN	75.52	63.57	248.2	521.9	206.9	464.0	274.0	321.2	100.2	113.4	67.94	122.1
MAX	142	201	649	2310	322	2300	842	900	172	224	203	498
MIN	58	45	74	98	119	119	156	185	63	66	39	34
CFSM	0.71	0.60	2.34	4.92	1.95	4.38	2.58	3.03	0.94	1.07	0.64	1.15
IN.	0.82	0.67	2.70	5.68	2.03	5.05	2.88	3.49	1.05	1.23	0.74	1.29

03497300 LITTLE RIVER ABOVE TOWNSEND, TN--Continued

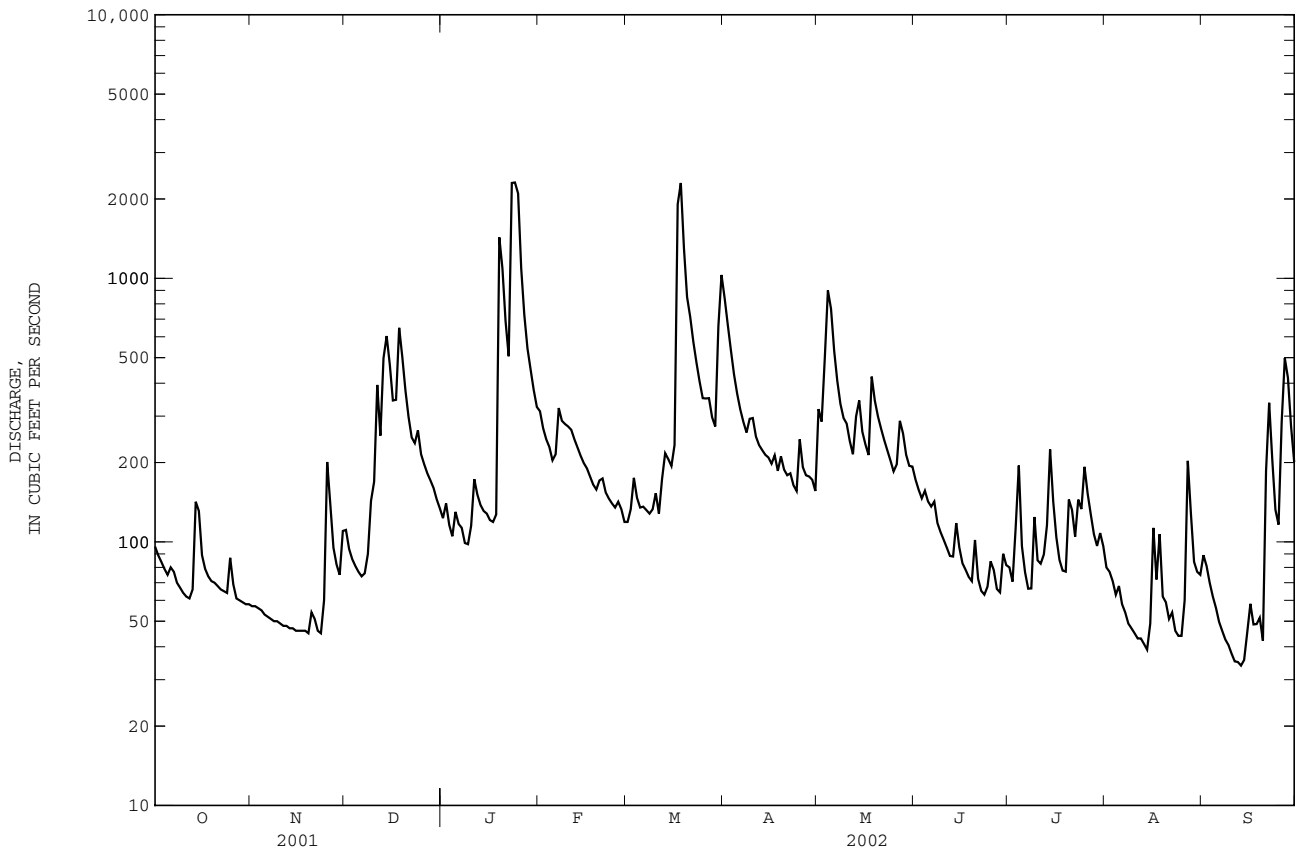
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	121.9	201.9	330.4	414.7	444.8	513.4	388.3	280.7	221.3	192.8	165.9	116.8
MAX	373	436	725	796	857	1195	818	774	648	815	530	492
(WY)	1973	1967	1992	1996	1990	1994	1998	1984	1989	1971	1966	1989
MIN	28.9	36.0	58.8	72.7	191	185	141	124	50.4	63.8	40.5	31.9
(WY)	1988	1988	1966	1981	1978	1988	1995	1986	1988	1993	1987	1998

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1964 - 2002

ANNUAL TOTAL	77055		78764		282.1	
ANNUAL MEAN	211.1		215.8		141	
HIGHEST ANNUAL MEAN					1994	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	1760	Jan 19	2310	Jan 24	9000	Mar 28 1994
LOWEST DAILY MEAN	45	Nov 19	34	Sep 13	22	Sep 15 1998
ANNUAL SEVEN-DAY MINIMUM	46	Nov 13	37	Sep 8	23	Sep 12 1998
MAXIMUM PEAK FLOW			4300		27100	
MAXIMUM PEAK STAGE			6.47		a15.75	
INSTANTANEOUS LOW FLOW			b33		c21	
ANNUAL RUNOFF (CFSM)	1.99		2.04		2.66	
ANNUAL RUNOFF (INCHES)	27.04		27.64		36.16	
10 PERCENT EXCEEDS	404		412		554	
50 PERCENT EXCEEDS	151		132		193	
90 PERCENT EXCEEDS	65		50		60	

- a From flood marks in gage house.
- b Also occurred on Sept. 14.
- c Results of freeze-up.



TENNESSEE RIVER BASIN

03498500 LITTLE RIVER NEAR MARYVILLE, TN

LOCATION.--Lat 35°47'10", 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 mi².

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 ft³/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 ft³/s, and flood of April 1, 1896, reached a stage of 26 ft, discharge, 36,000 ft³/s, from reports by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 25	1215	6,140	12.44	Mar 18	1315	17,000	18.29
Mar 17	1530	*22,800	*20.83				

Minimum discharge, 56 ft³/s, Sept. 14.

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	143	92	158	184	589	223	1900	540	259	143	137	100
2	135	90	130	177	527	227	1260	487	241	150	128	110
3	129	91	120	181	459	268	952	908	227	150	126	100
4	123	89	114	166	433	256	794	2140	219	241	116	89
5	118	87	109	151	390	229	687	1740	256	175	110	81
6	118	85	106	178	380	229	605	947	218	143	107	75
7	125	85	108	184	591	223	539	721	227	129	97	72
8	114	83	130	163	644	217	488	581	201	121	92	68
9	109	82	175	153	562	220	474	485	187	145	87	64
10	106	83	239	167	522	251	524	466	176	157	83	63
11	102	81	670	210	497	219	434	404	168	137	81	59
12	99	81	367	232	447	241	404	366	160	140	79	58
13	100	80	1090	203	416	340	388	555	156	155	78	59
14	102	79	1130	193	388	321	376	833	173	514	75	58
15	212	78	765	187	364	304	365	518	177	276	76	63
16	134	78	526	180	349	439	343	425	158	190	155	71
17	118	78	535	175	331	10400	352	381	149	161	145	79
18	112	77	1080	181	308	11100	323	566	142	144	142	72
19	109	77	783	1970	295	3760	331	519	137	140	119	73
20	107	79	578	3220	304	1970	313	435	150	158	101	72
21	105	88	430	1440	326	1610	297	397	142	216	96	198
22	102	81	357	926	287	1130	311	367	127	164	93	498
23	100	78	329	e7400	271	907	286	340	123	202	86	320
24	97	82	428	e8400	259	794	267	314	140	194	83	187
25	119	173	330	e6100	250	700	407	289	157	248	82	150
26	126	221	296	2580	250	639	339	268	232	235	87	359
27	101	141	272	1500	249	652	300	359	228	190	197	534
28	96	122	253	1040	229	548	288	372	299	166	170	517
29	94	111	238	844	---	502	293	319	191	154	121	345
30	94	115	219	725	---	1570	259	288	181	154	105	251
31	93	---	201	628	---	3240	---	280	---	157	100	---
TOTAL	3542	2867	12266	40038	10917	43729	14899	17610	5601	5649	3354	4845
MEAN	114.3	95.57	395.7	1292	389.9	1411	496.6	568.1	186.7	182.2	108.2	161.5
MAX	212	221	1130	8400	644	11100	1900	2140	299	514	197	534
MIN	93	77	106	151	229	217	259	268	123	121	75	58
CFSM	0.42	0.36	1.47	4.80	1.45	5.24	1.85	2.11	0.69	0.68	0.40	0.60
IN.	0.49	0.40	1.70	5.54	1.51	6.05	2.06	2.44	0.77	0.78	0.46	0.67

e Estimated

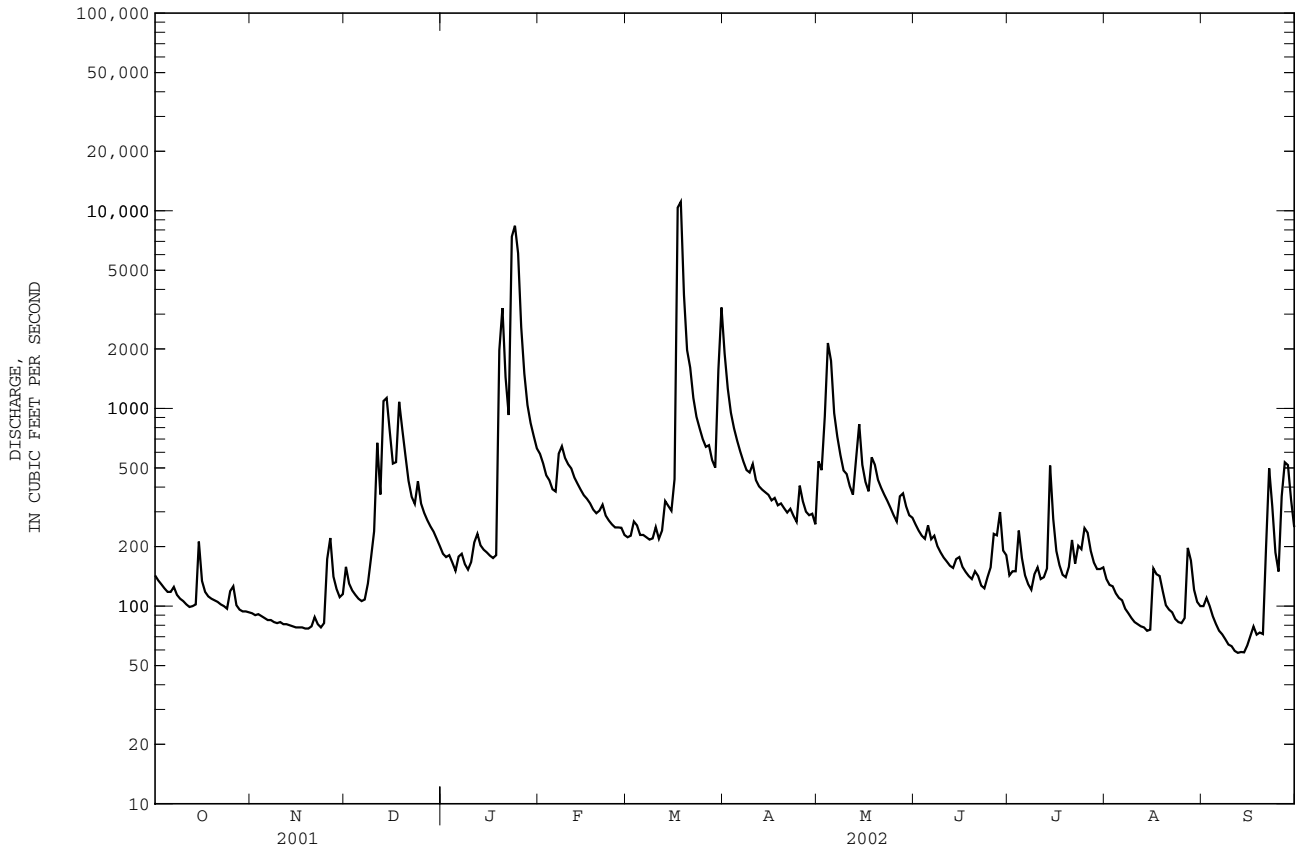
03498500 LITTLE RIVER NEAR MARYVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2002, BY WATER YEAR (WY)

MEAN	193.7	331.9	605.8	806.7	932.9	1011	753.8	496.8	376.2	318.9	249.2	176.3
MAX	830	1160	1679	1792	2254	2517	1701	1782	1261	1391	867	1019
(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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1951 - 2002	
ANNUAL TOTAL	143749		165317			
ANNUAL MEAN	393.8		452.9		517.9	
HIGHEST ANNUAL MEAN					862 1994	
LOWEST ANNUAL MEAN					220 1988	
HIGHEST DAILY MEAN	5160	Feb 17	11100	Mar 18	23100	Mar 28 1994
LOWEST DAILY MEAN	77	Nov 18	58	Sep 12	43	Oct 19 1987
ANNUAL SEVEN-DAY MINIMUM	78	Nov 14	61	Sep 9	45	Oct 14 1987
MAXIMUM PEAK FLOW			22800		a42100 Mar 28 1994	
MAXIMUM PEAK STAGE			20.83		27.95 Mar 28 1994	
INSTANTANEOUS LOW FLOW			56		32 Aug 27 1956	
ANNUAL RUNOFF (CFSM)	1.46		1.68		1.93	
ANNUAL RUNOFF (INCHES)	19.88		22.86		26.16	
10 PERCENT EXCEEDS	735		723		1030	
50 PERCENT EXCEEDS	248		202		311	
90 PERCENT EXCEEDS	104		83		99	

a From rating curve extended above 14,800 ft³/s on basis of a contracted opening measurement and road overflow computations.



TENNESSEE RIVER BASIN

03498850 LITTLE RIVER NEAR ALCOA, TN

LOCATION.--Lat 35°48'32", long 83°55'36", Blount County, Hydrologic Unit 06010201, at Singleton Bend on left bank, 3.0 mi northeast of Alcoa, and at mile 9.7.

DRAINAGE AREA.--300 mi².

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 814.22 ft above NGVD of 1929.

REMARKS.--Records good. Diurnal fluctuations at low flow caused by small mills above station. The town of Maryville diverts an average of about 4.0 ft³/s (2.6 MGD) for municipal supply 7.6 mi upstream from gage and the town of Alcoa at the gage diverts about 17.2 ft³/s (11.1 MGD). Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge not determined, Mar. 17, gage height 19.24 ft; minimum 34 ft³/s, Sept. 11, 12.

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	144	86	152	210	636	228	2010	557	276	98	121	97
2	135	84	130	193	597	231	1330	602	237	101	94	111
3	126	84	116	200	522	269	1040	959	214	112	94	101
4	117	91	109	185	498	287	862	1990	194	203	88	89
5	112	86	102	164	450	255	762	1790	264	148	75	79
6	112	79	99	188	428	240	695	1030	196	95	74	72
7	120	78	100	203	585	225	639	794	212	78	62	66
8	111	78	121	182	670	220	601	672	179	68	56	61
9	102	76	159	164	594	220	578	589	149	69	70	50
10	100	76	230	174	569	255	618	571	136	117	67	40
11	97	75	664	209	542	227	553	517	124	82	57	36
12	95	73	437	276	496	232	522	469	113	171	55	41
13	93	73	876	243	466	346	501	578	111	174	52	49
14	98	73	1170	218	452	335	486	930	118	559	46	50
15	206	71	797	206	413	314	474	624	140	358	38	53
16	138	70	572	198	387	409	444	538	112	212	88	64
17	105	70	513	190	366	---	446	485	99	160	169	77
18	96	71	1040	194	339	---	411	617	93	134	110	83
19	94	70	810	1530	320	4680	408	622	86	130	108	86
20	97	85	607	3820	321	2150	389	540	87	138	79	66
21	90	76	482	1430	361	1770	363	497	97	219	62	131
22	86	77	418	952	313	1300	368	456	75	155	58	735
23	82	71	394	---	292	1100	343	413	71	190	63	485
24	88	73	477	---	280	966	318	373	82	189	56	248
25	110	125	389	6150	285	862	478	334	91	222	57	182
26	129	295	347	2950	268	794	426	304	212	265	57	386
27	98	156	314	1620	266	801	358	409	212	187	148	598
28	90	120	292	1130	241	717	342	437	377	156	218	637
29	88	107	287	904	---	675	351	357	168	138	139	451
30	88	107	268	759	---	1360	300	314	144	128	108	321
31	87	---	234	674	---	3450	---	298	---	150	100	---
TOTAL	3334	2756	12706	25516	11957	24918	17416	19666	4669	5206	2669	5545
MEAN	107.5	91.87	409.9	879.9	427.0	859.2	580.5	634.4	155.6	167.9	86.10	184.8
MAX	206	295	1170	6150	670	4680	2010	1990	377	559	218	735
MIN	82	70	99	164	241	220	300	298	71	68	38	36

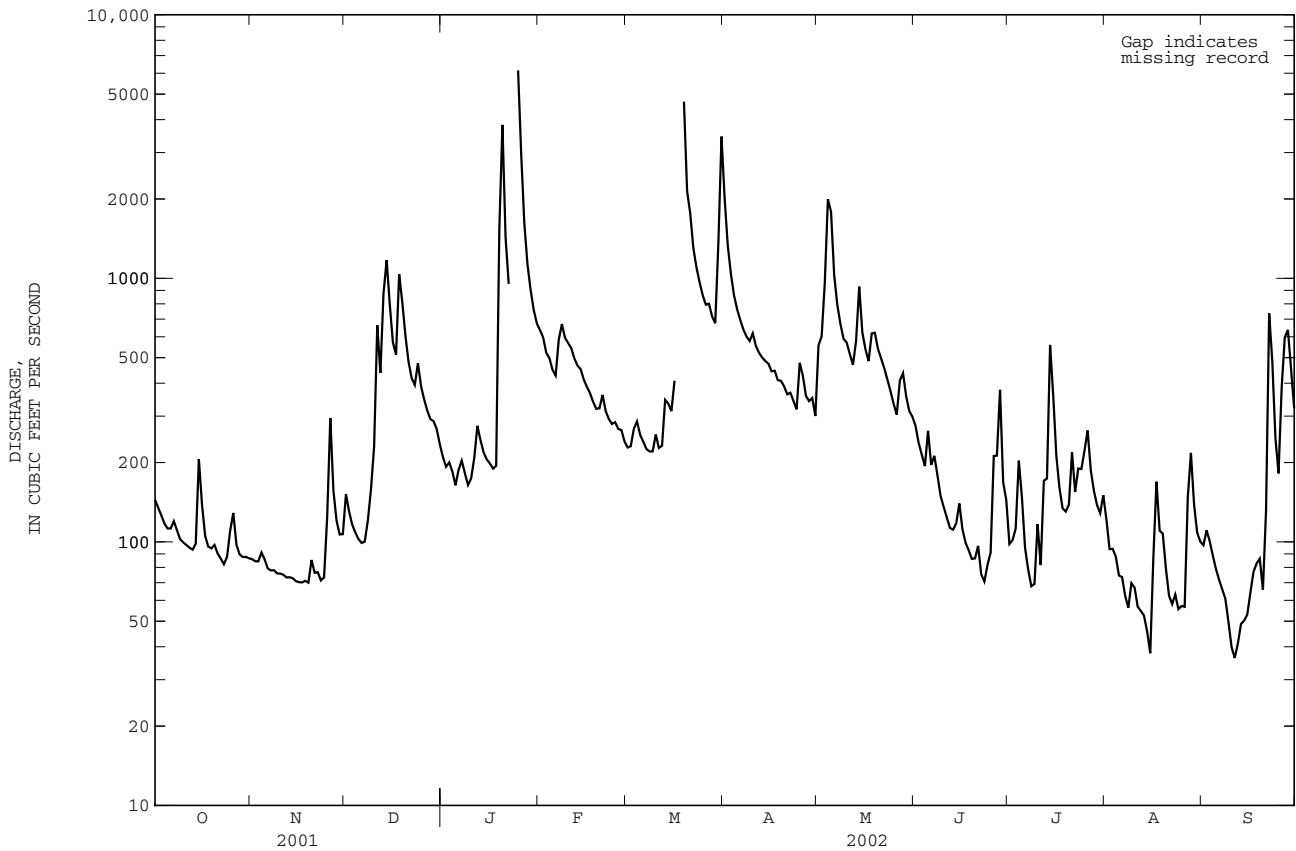
03498850 LITTLE RIVER NEAR ALCOA, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	177.0	288.6	580.6	877.9	966.9	1059	782.4	532.3	456.1	319.9	222.3	207.5
MAX	779	783	1624	1410	1980	2764	2008	989	1335	782	586	1123
(WY)	1990	1990	1992	1996	1994	1994	1994	1989	1989	1999	1994	1989
MIN	43.4	60.6	176	432	427	403	295	199	73.6	106	69.0	59.8
(WY)	1988	1988	1988	1988	2002	1988	1995	1988	1988	1988	1987	1998

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1987 - 2002

ANNUAL TOTAL		143653		136358								
ANNUAL MEAN		393.6		377.7						536.8		
HIGHEST ANNUAL MEAN										953		1994
LOWEST ANNUAL MEAN										220		1988
HIGHEST DAILY MEAN			5290	Feb 17		6150	Jan 25		28000	Mar 28		1994
LOWEST DAILY MEAN			70	Nov 16		36	Sep 11		28	Jul 10		1988
ANNUAL SEVEN-DAY MINIMUM			71	Nov 13		46	Sep 9		35	Oct 14		1987
MAXIMUM PEAK FLOW									not determined	Mar 28		1994
MAXIMUM PEAK STAGE						19.24	Mar 17		25.63	Mar 28		1994
INSTANTANEOUS LOW FLOW						34	Sep 11		21	Sep 16		1998
10 PERCENT EXCEEDS			721			761			1060			
50 PERCENT EXCEEDS			238			206			326			
90 PERCENT EXCEEDS			94			72			85			



CUMBERLAND RIVER BASIN

03518500 TELlico RIVER AT TELlico PLAINS, TN

LOCATION.--Lat 35°21'42", long 84°16'44", Monroe County, Hydrologic Unit 06010204, on right bank 1,300 ft upstream from birdge on Tellico Plains-Ballplay Road, 0.4 mi downstream from Laurel Creek, 0.8 mi east of Tellico Plains, and at mile 28.2.

DRAINAGE AREA.--118 mi².

PERIOD OF RECORD.--July 1925 to February 1982, December 2000 to current year. Published as "near Tellico Plains" October 1927 to September 1930.

REVISED RECORDS.--WSP 1336: 1927-28(M), 1936, 1940, 1944.

GAGE.--Water-stage recorder. Datum of gage is 846.64 ft NGVD of 1929. July 20, 1925 to Sept. 30, 1927, nonrecording gage at same site and datum. Oct. 1, 1927, to Sept. 30, 1930, nonrecording gage at site 0.5 mi upstream at datum 8.29 ft higher.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR OUTSIDE PERIOD OF RECORD.--Flood in May 1840 reached a stage of 15 ft, discharge, about 21,500 ft³/s, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT PERIOD.--December 2000 to September 2002: Peak discharges greater than base discharge of 3,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 25, 2002	0115	*3,740	*7.64	No other peak greater than base discharge.			

Minimum discharge, 38 ft³/s, Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR DECEMBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	71	101	214	355	248	149	294	201	218	475
2	---	---	69	86	193	319	232	139	427	152	237	388
3	---	---	73	93	175	307	233	132	296	134	178	284
4	---	---	70	104	165	351	251	124	252	153	209	233
5	---	---	68	87	156	450	230	119	240	287	208	191
6	---	---	66	85	146	392	219	122	206	171	392	165
7	---	---	64	79	139	337	211	154	227	141	216	141
8	---	---	62	123	132	310	199	125	829	130	190	127
9	---	---	61	111	130	294	191	131	617	124	200	117
10	---	---	61	105	278	266	183	178	380	127	176	108
11	---	---	63	124	207	247	176	131	295	112	182	105
12	---	---	69	152	214	263	169	131	246	104	209	100
13	---	---	70	153	206	411	379	126	213	98	225	95
14	---	---	172	143	361	319	357	111	192	92	191	91
15	---	---	132	151	448	529	325	107	182	87	161	86
16	---	---	139	144	808	529	307	103	197	85	143	84
17	---	---	523	129	1830	412	265	99	163	83	130	80
18	---	---	271	346	742	347	239	94	146	80	125	77
19	---	---	204	1820	487	313	219	91	137	84	116	93
20	---	---	146	1010	381	370	203	108	132	119	115	252
21	---	---	146	502	364	390	190	100	127	146	106	126
22	---	---	120	351	482	362	178	113	145	103	99	99
23	---	---	112	286	476	337	170	143	169	90	94	88
24	---	---	136	244	403	313	166	108	125	97	101	239
25	---	---	112	212	746	286	162	595	117	133	138	265
26	---	---	98	185	729	259	150	286	130	149	99	161
27	---	---	95	175	516	239	145	192	122	106	113	130
28	---	---	100	161	421	224	140	218	146	92	123	113
29	---	---	92	153	---	237	135	332	153	321	100	104
30	---	---	85	329	---	279	148	233	297	486	94	96
31	---	---	77	248	---	255	---	189	---	257	230	---
TOTAL	---	---	3627	7992	11549	10302	6420	4983	7202	4544	5118	4713
MEAN	---	---	117.0	257.8	412.5	332.3	214.0	160.7	240.1	146.6	165.1	157.1
MAX	---	---	523	1820	1830	529	379	595	829	486	392	475
MIN	---	---	61	79	130	224	135	91	117	80	94	77
CFSM	---	---	0.99	2.18	3.50	2.82	1.81	1.36	2.03	1.24	1.40	1.33
IN.	---	---	1.14	2.52	3.64	3.25	2.02	1.57	2.27	1.43	1.61	1.49

03518500 TELLICO RIVER AT TELLICO PLAINS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	102.6	187.0	306.4	436.3	482.3	525.9	429.5	286.9	208.6	192.0	147.9	107.5
MAX	303	980	973	1033	972	1039	823	933	559	557	459	486
(WY)	1973	1930	1927	1947	1957	1963	1964	1929	1957	1949	1938	1928
MIN	28.4	37.7	60.8	67.7	115	206	161	106	75.0	61.0	28.6	22.4
(WY)	1955	1940	1940	1981	1941	1981	1967	1941	1936	1944	1925	1925

SUMMARY STATISTICS

FOR 2001 WATER YEAR

WATER YEARS 1925 - 2001

ANNUAL TOTAL	66450		
ANNUAL MEAN	218.6	283.6	
HIGHEST ANNUAL MEAN		474	1929
LOWEST ANNUAL MEAN		25.5	1925
HIGHEST DAILY MEAN	1830	Feb 17	9990 Mar 16 1973
LOWEST DAILY MEAN	61	Dec 9	14 Sep 7 1925
ANNUAL SEVEN-DAY MINIMUM	64	Dec 5	15 Sep 6 1925
MAXIMUM PEAK FLOW	3020	Jan 19	a19900 Mar 16 1973
MAXIMUM PEAK STAGE	6.84	Jan 19	b14.18 Mar 16 1973
INSTANTANEOUS LOW FLOW	46	Jan 3	13 Sep 7 1925
ANNUAL RUNOFF (CFSM)	1.85		2.40
ANNUAL RUNOFF (INCHES)	20.95		32.65
10 PERCENT EXCEEDS	389		560
50 PERCENT EXCEEDS	162		188
90 PERCENT EXCEEDS	90		60

a From rating curve extended above 12,000 ft³/s on basis of slope-area measurement of peak flow.
 b From cross line in well.

CUMBERLAND RIVER BASIN

03518500 TELLICO RIVER AT TELLICO PLAINS, TN--Continued

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	91	60	167	149	353	150	699	326	168	138	82	133
2	87	61	128	156	312	167	495	265	158	125	78	81
3	83	60	110	137	287	251	403	431	150	175	73	68
4	79	60	100	127	272	195	339	1420	161	293	67	63
5	77	58	92	144	246	172	307	743	216	153	64	58
6	77	57	88	169	261	167	279	455	273	128	60	54
7	77	55	90	158	375	162	256	353	311	111	57	50
8	71	55	100	134	365	157	240	304	258	117	55	48
9	70	55	163	129	337	163	278	277	187	103	52	46
10	67	55	215	137	317	186	267	282	163	102	51	44
11	66	54	463	172	297	157	239	239	147	151	50	41
12	66	54	263	159	268	213	224	215	137	108	49	40
13	76	54	502	147	249	241	221	381	133	157	47	40
14	161	53	741	138	232	217	209	446	143	247	45	46
15	115	53	489	136	219	201	200	319	151	152	45	55
16	81	53	327	128	212	212	190	273	126	125	165	55
17	73	52	413	126	200	264	186	244	119	109	85	48
18	72	52	668	134	190	355	176	531	111	100	97	71
19	71	51	421	1280	182	362	170	391	134	94	115	99
20	70	54	318	1120	205	340	165	326	185	91	79	55
21	69	53	260	593	200	375	158	290	125	88	64	643
22	68	51	225	446	178	318	165	258	109	89	58	803
23	66	52	239	1420	170	284	152	235	104	137	58	293
24	66	71	325	2020	165	257	146	215	105	131	55	182
25	76	301	250	2400	160	235	201	199	129	96	64	180
26	71	136	226	995	175	273	163	186	130	121	62	408
27	63	97	205	671	163	340	151	249	118	96	60	512
28	62	85	191	519	151	285	147	271	138	92	116	427
29	62	78	179	436	---	266	154	212	123	101	85	290
30	62	238	163	377	---	1030	137	190	135	111	107	215
31	61	---	154	337	---	1170	---	184	---	94	79	---
TOTAL	2356	2268	8275	15194	6741	9165	7117	10710	4647	3935	2224	5148
MEAN	76.00	75.60	266.9	490.1	240.8	295.6	237.2	345.5	154.9	126.9	71.74	171.6
MAX	161	301	741	2400	375	1170	699	1420	311	293	165	803
MIN	61	51	88	126	151	150	137	184	104	88	45	40
CFSM	0.64	0.64	2.26	4.15	2.04	2.51	2.01	2.93	1.31	1.08	0.61	1.45
IN.	0.74	0.71	2.61	4.79	2.13	2.89	2.24	3.38	1.46	1.24	0.70	1.62

03518500 TELLICO RIVER AT TELLICO PLAINS, TN--Continued

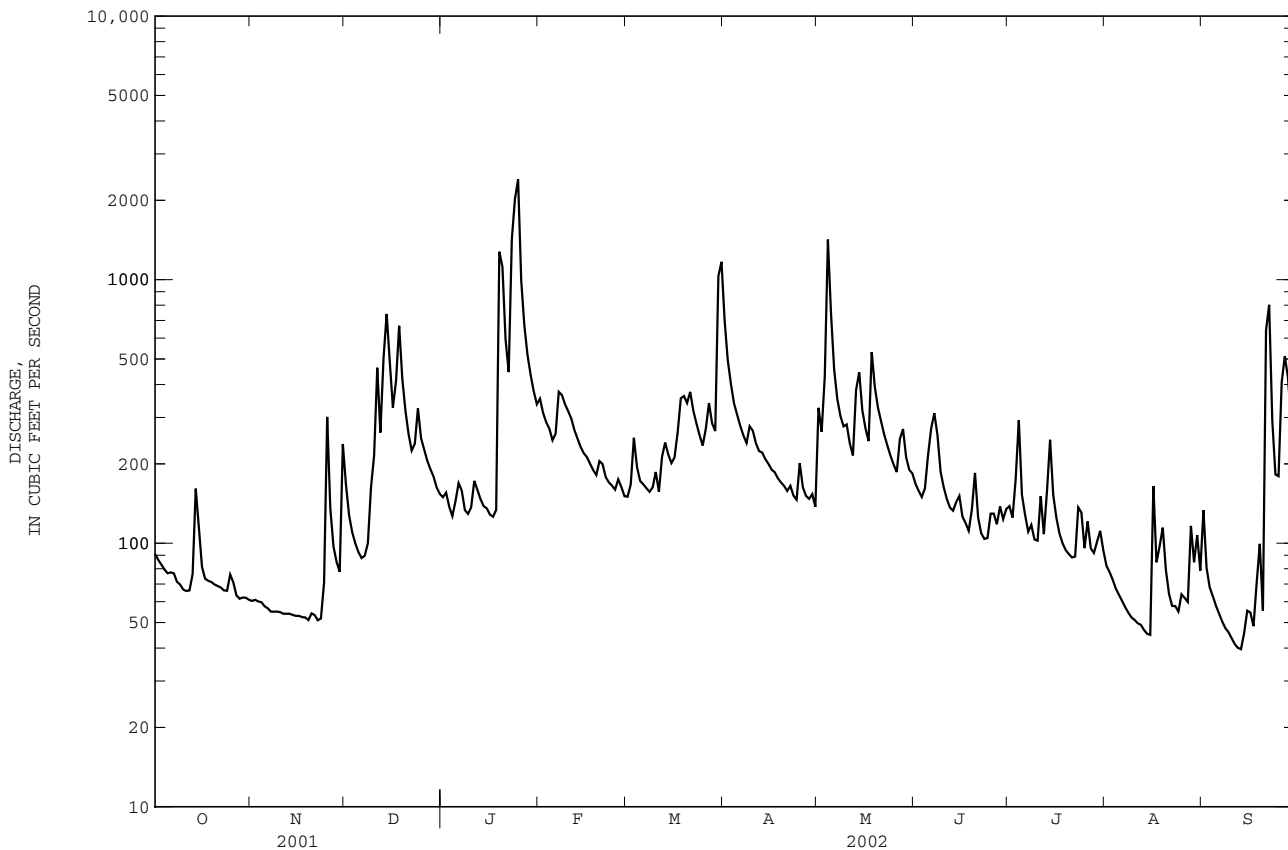
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	102.2	185.1	305.8	437.2	478.2	522.0	426.2	287.9	207.7	190.9	146.7	108.6
MAX	303	980	973	1033	972	1039	823	933	559	557	459	486
(WY)	1973	1930	1927	1947	1957	1963	1964	1929	1957	1949	1938	1928
MIN	28.4	37.7	60.8	67.7	115	206	161	106	75.0	61.0	28.6	22.4
(WY)	1955	1940	1940	1981	1941	1981	1967	1941	1936	1944	1925	1925

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1925 - 2002

ANNUAL TOTAL	75722	77780	
ANNUAL MEAN	207.5	213.1	282.4
HIGHEST ANNUAL MEAN			474
LOWEST ANNUAL MEAN			25.5
HIGHEST DAILY MEAN	1830	Feb 17	2400
LOWEST DAILY MEAN	51	Nov 19	40
ANNUAL SEVEN-DAY MINIMUM	52	Nov 17	44
MAXIMUM PEAK FLOW			3740
MAXIMUM PEAK STAGE			7.64
INSTANTANEOUS LOW FLOW			38
ANNUAL RUNOFF (CFSM)	1.76	1.81	2.39
ANNUAL RUNOFF (INCHES)	23.87	24.52	32.51
10 PERCENT EXCEEDS	389	379	558
50 PERCENT EXCEEDS	153	154	187
90 PERCENT EXCEEDS	70	55	60

a From rating curve extended above 12,000 ft³/s on basis of slope-area measurement of peak flow.
 b From cross line in well.



TENNESSEE RIVER BASIN

03528000 CLINCH RIVER ABOVE TAZEWELL, TN

LOCATION.--Lat 36°25'30", long 83°23'54", Claiborne County, Hydrologic Unit 06010205, on right bank 0.4 mi upstream from Grissom Island, 4.6 mi downstream from Big War Creek, 10 mi east of Tazewell, and at mile 159.8.

DRAINAGE AREA.--1,474 mi².

PERIOD OF RECORD.--October 1918 to current year. Published as "near Lone Mountain" October 1918 to September 1927; as "near Tazewell" August 1927 to December 1936; and as "above Tazewell" July 1935 to current year. Prior to April 1919, monthly discharge only, published in WSP 1306. Gage-height record "near Tazewell" January 1937 to July 1941.

REVISED RECORDS.--WSP 803: Drainage area at site "near Tazewell". WSP 1306: Drainage area at site "near Lone Mountain". WSP 1336: 1928.

GAGE.--Data collection platform. Datum of gage is 1,060.7 ft above NGVD of 1929. April 1, 1919, to Sept. 30, 1927, nonrecording gage on railroad bridge 23.3 mi downstream at datum 102.7 ft lower. Aug. 8, 1927, to July 16, 1941, water-stage recorder at site 8.0 mi downstream at datum 47.2 ft lower. Water-stage recorder at present site and datum since July 29, 1935.

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.--Flood in February 1862 reached a stage of about 24 ft, present site and datum, from information by local resident, discharge, about 66,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 14,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 25	0600	22,400	12.63	Mar 19	0800	*54,800	*21.37

Minimum discharge, 115 ft³/s, Sept. 13, 14, 16, 17.

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	328	230	254	333	1770	592	8380	1320	623	536	401	225
2	304	224	248	349	1550	580	8470	1660	584	506	349	214
3	291	225	243	298	1360	600	5890	3530	564	445	331	201
4	282	221	242	302	1210	652	4240	6610	544	582	304	182
5	270	222	235	300	1090	702	3300	5660	549	724	270	170
6	277	221	226	301	1010	687	2720	3460	541	532	256	160
7	266	222	228	319	1080	671	2320	2620	523	542	234	152
8	264	222	235	332	1410	636	2040	2370	551	475	218	145
9	293	223	253	318	1870	621	1970	2160	658	390	223	139
10	296	220	321	329	1810	612	2370	2010	646	349	211	133
11	284	217	645	355	1640	599	2660	1770	543	335	194	130
12	270	217	737	503	1480	595	2260	1530	468	313	184	124
13	263	214	885	1080	1340	586	1960	1510	429	542	175	118
14	270	211	1120	1140	1220	596	1760	1890	462	573	168	116
15	281	214	1280	946	1100	615	1620	2060	505	535	164	121
16	284	208	1110	776	1020	733	1570	1780	523	536	167	115
17	271	204	904	666	962	3980	1500	1470	571	491	193	116
18	275	203	878	611	906	31500	1360	1350	497	410	190	121
19	265	203	879	1280	856	51200	1480	1420	431	386	222	119
20	277	201	826	3040	822	27700	1630	1490	385	431	245	122
21	280	199	744	3430	814	9430	1470	1290	353	592	246	158
22	261	197	653	2700	799	6580	1440	1120	329	567	253	192
23	252	195	589	4410	770	5040	1320	1010	309	654	232	247
24	246	201	546	14400	726	4030	1200	921	301	589	208	241
25	252	230	514	22000	693	3200	1210	849	289	574	187	203
26	244	243	484	17100	665	2740	1220	788	291	477	219	419
27	248	243	454	8560	642	2650	1350	747	299	746	273	961
28	247	237	433	4670	619	2760	1410	861	376	791	356	970
29	241	236	409	3300	---	2470	1410	832	402	582	348	736
30	236	250	384	2560	---	2300	1350	725	421	460	301	593
31	233	---	355	2080	---	3510	---	682	---	433	253	---
TOTAL	8351	6553	17314	98788	31234	169167	72880	57495	13967	16098	7575	7643
MEAN	269.4	218.4	558.5	3187	1116	5457	2429	1855	465.6	519.3	244.4	254.8
MAX	328	250	1280	22000	1870	51200	8470	6610	658	791	401	970
MIN	233	195	226	298	619	580	1200	682	289	313	164	115
MED	270	220	484	946	1050	733	1620	1490	482	535	232	159
CFSM	0.18	0.15	0.38	2.16	0.76	3.70	1.65	1.26	0.32	0.35	0.17	0.17
IN.	0.21	0.17	0.44	2.49	0.79	4.27	1.84	1.45	0.35	0.41	0.19	0.19

03528000 CLINCH RIVER ABOVE TAZEWELL, TN--Continued

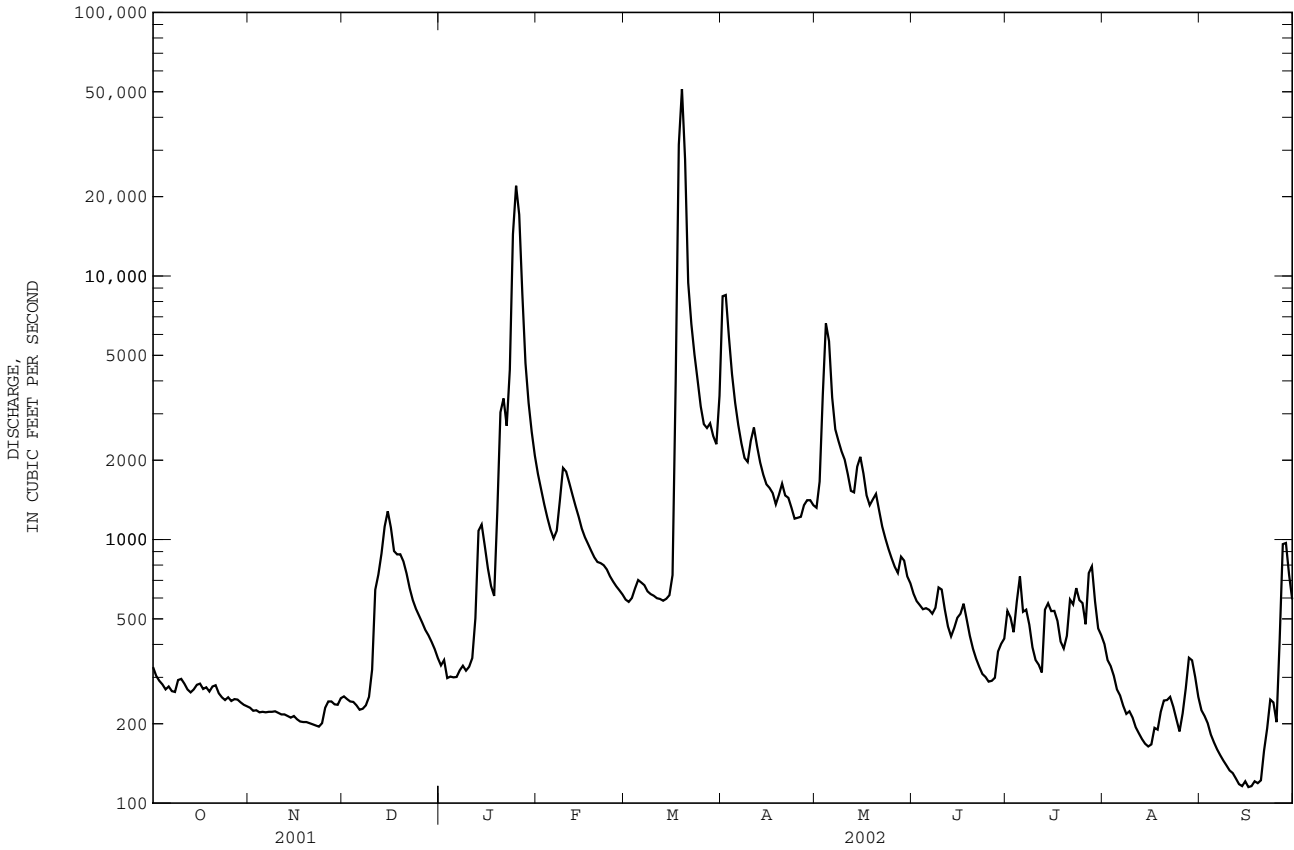
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	642.5	1076	2280	3420	4065	4277	3075	2283	1271	966.9	858.9	523.4
MAX	2871	4794	9107	9500	9426	11950	8860	6382	3865	3251	4411	2939
(WY)	1990	1978	1927	1937	1957	1963	1977	1929	1989	1938	1942	1989
MIN	145	159	217	285	572	990	711	547	301	239	169	136
(WY)	1964	1940	1940	1940	1941	1988	1986	1941	1988	1988	1925	1955

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1919 - 2002

ANNUAL TOTAL		500492		507065						2049		
ANNUAL MEAN		1371		1389						850		1941
HIGHEST ANNUAL MEAN										3269		1927
LOWEST ANNUAL MEAN										850		1941
HIGHEST DAILY MEAN			21100		Jul 30		51200	Mar 19		83300	Apr 5	1977
LOWEST DAILY MEAN			195		Nov 23		115	Sep 16		108	Sep 11	1925
ANNUAL SEVEN-DAY MINIMUM			200		Nov 18		118	Sep 13		116	Sep 17	1955
MAXIMUM PEAK FLOW							54800	Mar 19		98100	Apr 5	1977
MAXIMUM PEAK STAGE							21.37	Mar 19		a29.32	Apr 5	1977
INSTANTANEOUS LOW FLOW							b115	Sep 13		108	Sep 11	1925
ANNUAL RUNOFF (CFSM)			0.93				0.94			1.39		
ANNUAL RUNOFF (INCHES)			12.63				12.80			18.89		
10 PERCENT EXCEEDS			3150				2510			4600		
50 PERCENT EXCEEDS			675				536			1090		
90 PERCENT EXCEEDS			243				203			264		

a From floodmarks.
 b Also occurred on Sept. 14, 16, 17.



TENNESSEE RIVER BASIN

03532000 POWELL RIVER NEAR ARTHUR, TN

LOCATION.--Lat 36°32'30", long 83°37'49", Claiborne County, Hydrologic Unit 06010206, on left bank, 500 ft upstream from bridge on U.S. Highway 25E, 2.3 mi east of Arthur, 2.4 mi downstream from Indian Creek, and at mile 65.4.

DRAINAGE AREA.--685 mi².

PERIOD OF RECORD.--October 1919 to February 1982, October 1996 to current year. Gage-height records collected at same site December 1892 to August 1893, September 1904 to March 1925 are in reports of U.S. Weather Bureau (published as "near Tazewell").

REVISED RECORDS.--WSP 1336: 1920, 1921(M), 1923.

GAGE.--Water-stage recorder. Datum of gage is 1,043.84 ft above NGVD of 1929, Tennessee River Survey datum. Prior to July 23, 1927, nonrecording gage, and July 23, 1927, to Sept. 30, 1970, water-stage recorder, at same site at datum 2.00 ft higher.

REMARKS.--Records good. Periodic observation of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1826 reached a stage of 29.5 ft present datum, discharge, 34,000 ft³/s, and flood of Jan. 29, 1918, reached a stage of 29.2 ft present datum, discharge, 33,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 25	0545	13,400	17.31	Mar 19	2145	*28,700	*27.01

Minimum discharge, 61 ft³/s, Sept. 14.

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

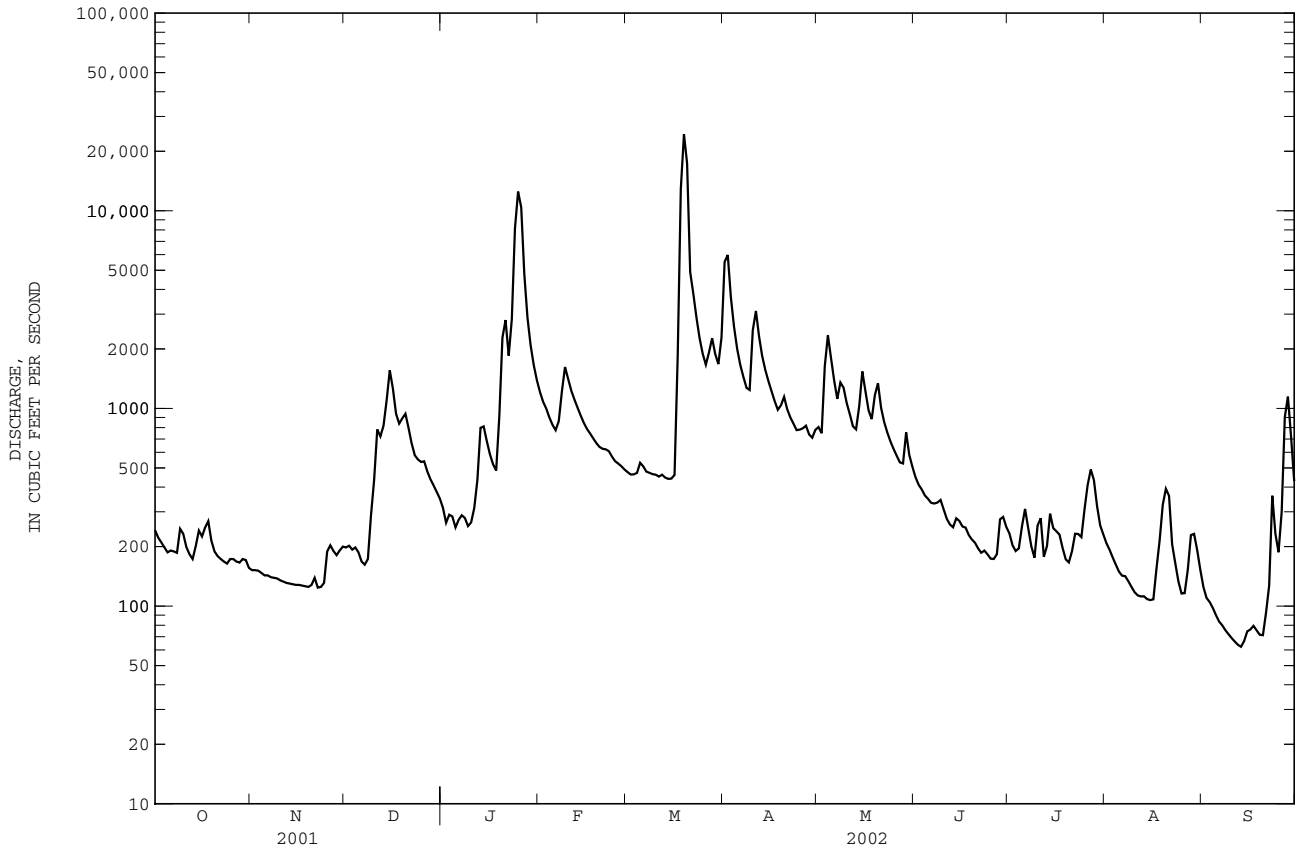
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242	152	198	314	1210	476	5520	805	448	233	208	125
2	222	152	202	264	1080	463	5980	749	411	203	193	110
3	210	151	193	290	998	464	3640	1640	389	190	176	105
4	198	147	198	284	900	472	2590	2340	363	196	162	98
5	187	143	187	250	826	531	2000	1800	349	252	150	90
6	191	143	168	273	776	509	1660	1380	333	310	143	84
7	189	140	162	288	862	479	1440	1120	330	248	142	80
8	186	139	173	279	1220	472	1270	1350	334	201	134	76
9	246	138	288	254	1620	465	1240	1270	344	176	125	72
10	232	135	434	265	1410	462	2480	1070	308	256	118	69
11	199	133	783	314	1230	452	3110	935	276	278	113	66
12	183	131	722	435	1110	462	2310	812	259	178	112	64
13	173	130	817	798	1010	447	1840	784	250	201	112	62
14	201	129	1100	811	921	440	1560	1030	278	293	108	67
15	241	128	1560	684	846	442	1370	1540	270	248	107	74
16	225	128	1260	586	788	461	1220	1220	253	239	108	76
17	250	127	941	522	747	1830	1090	977	249	230	155	79
18	269	126	838	485	706	12900	984	883	229	197	215	75
19	214	125	891	913	668	24400	1040	1160	217	172	325	72
20	189	128	940	2280	639	17400	1140	1340	209	166	392	71
21	179	139	796	2800	625	4890	991	1010	196	190	361	93
22	173	124	664	1850	621	3790	900	852	186	232	205	127
23	168	125	579	2830	608	2880	837	754	191	231	165	362
24	164	131	552	8120	571	2270	777	680	183	223	133	232
25	173	189	536	12500	541	1890	781	623	174	309	116	187
26	173	203	540	10400	526	1660	793	575	173	410	116	301
27	168	190	480	4760	510	1920	818	533	183	491	153	905
28	166	181	438	2880	491	2270	739	527	275	434	229	1150
29	173	191	408	2090	---	1880	711	756	283	321	232	719
30	171	200	378	1660	---	1680	779	582	252	256	192	429
31	156	---	350	1390	---	2290	---	507	---	231	153	---
TOTAL	6111	4398	17776	61869	24060	91447	51610	31604	8195	7795	5353	6120
MEAN	197.1	146.6	573.4	1996	859.3	2950	1720	1019	273.2	251.5	172.7	204.0
MAX	269	203	1560	12500	1620	24400	5980	2340	448	491	392	1150
MIN	156	124	162	250	491	440	711	507	173	166	107	62
CFSM	0.29	0.21	0.84	2.91	1.25	4.31	2.51	1.49	0.40	0.37	0.25	0.30
IN.	0.33	0.24	0.97	3.36	1.31	4.97	2.80	1.72	0.45	0.42	0.29	0.33

03532000 POWELL RIVER NEAR ARTHUR, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	315.2	649.9	1306	1982	2159	2386	1719	1133	663.8	549.4	450.7	248.3
MAX	1648	3045	5557	5812	4887	6596	5224	4220	2495	1917	2030	1081
(WY)	1978	1974	1927	1937	1956	1963	1977	1929	1928	1941	1942	1928
MIN	75.5	96.4	117	143	268	887	477	268	168	137	117	79.7
(WY)	1955	1940	1966	1940	1941	1931	1942	1941	1936	1944	1925	1955

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1920 - 2002	
ANNUAL TOTAL	249302		316338			
ANNUAL MEAN	683.0		866.7		1126	
HIGHEST ANNUAL MEAN					1858	
LOWEST ANNUAL MEAN					486	
HIGHEST DAILY MEAN	8380	Feb 17	24400	Mar 19	50300	Apr 6 1977
LOWEST DAILY MEAN	124	Nov 22	62	Sep 13	60	Sep 23 1955
ANNUAL SEVEN-DAY MINIMUM	127	Nov 14	68	Sep 9	65	Sep 17 1955
MAXIMUM PEAK FLOW			28700		59500	
MAXIMUM PEAK STAGE			27.01		38.96	
INSTANTANEOUS LOW FLOW			61		47	
ANNUAL RUNOFF (CFSM)	1.00		1.27		1.64	
ANNUAL RUNOFF (INCHES)	13.54		17.18		22.33	
10 PERCENT EXCEEDS	1520		1660		2510	
50 PERCENT EXCEEDS	394		321		576	
90 PERCENT EXCEEDS	152		127		136	



TENNESSEE RIVER BASIN

03535400 BEAVER CREEK AT SOLWAY, TN

LOCATION.--Lat 35°57'51", long 84°01'41", Knox County, Hydrologic Unit 06010207, at bridge on Solway Road, 1.1 mi southwest of Solway and 5.9 mi southeast of intersection of State Highways 95 and 62 in Oak Ridge.

DRAINAGE AREA.--86.8 mi².

PERIOD OF RECORD.--August 1961 to September 1964, low-flow partial-record site, August 1998 to April 1999, flood crest-stage partial-record site, April 1999 to September 2000.

GAGE.--Data logger.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 24	2245	2,560	12.08	Mar 19	0745	*3,530	*14.01
Jan 25	0845	2,210	11.28	Mar 19	1900	2,470	11.88

Minimum discharge, 17 ft³/s, Nov. 8, 9, 11, 21, 22.

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	30	28	37	43	208	59	642	161	57	34	76	21
2	29	27	32	41	203	59	537	251	54	32	36	21
3	29	28	29	41	167	65	331	507	52	37	30	21
4	27	26	26	39	153	63	258	380	50	83	27	21
5	26	25	24	38	134	58	219	261	48	43	26	21
6	27	22	23	40	130	54	193	202	48	32	26	21
7	26	19	29	44	215	51	174	172	55	29	24	21
8	28	19	39	45	266	50	160	173	51	28	23	21
9	25	19	45	42	212	54	185	142	46	26	23	25
10	24	20	76	42	176	64	194	136	45	25	23	21
11	29	21	214	45	161	57	163	142	42	28	23	20
12	26	20	130	47	144	60	150	121	40	33	22	20
13	24	20	159	46	130	72	143	177	40	227	23	19
14	27	21	296	46	119	71	138	307	42	354	21	21
15	35	21	216	44	110	66	132	189	39	126	21	23
16	32	22	131	40	100	74	128	143	38	68	20	26
17	29	21	124	40	90	931	121	125	37	53	27	28
18	27	21	175	42	85	e3300	114	143	38	47	26	24
19	29	21	143	490	81	e3200	111	134	37	42	27	22
20	29	21	108	1010	82	1170	102	110	34	41	41	22
21	27	19	83	635	86	631	96	99	33	45	35	355
22	27	19	75	214	79	429	88	90	32	39	28	549
23	27	20	74	1200	72	316	90	84	32	35	25	569
24	27	21	89	2180	69	265	84	81	32	36	21	163
25	30	47	78	2120	65	231	146	77	33	37	22	79
26	43	45	67	1510	67	213	134	74	32	33	25	160
27	33	34	60	667	66	200	93	72	33	30	23	264
28	28	29	55	420	62	175	85	70	34	30	25	186
29	27	27	51	310	---	160	80	68	33	30	44	115
30	28	32	48	251	---	230	76	64	36	28	30	85
31	29	---	45	212	---	504	---	61	---	32	25	---
TOTAL	884	735	2781	11984	3532	12932	5167	4816	1223	1763	868	2964
MEAN	28.52	24.50	89.71	386.6	126.1	417.2	172.2	155.4	40.77	56.87	28.00	98.80
MAX	43	47	296	2180	266	3300	642	507	57	354	76	569
MIN	24	19	23	38	62	50	76	61	32	25	20	19
CFSM	0.33	0.28	1.03	4.45	1.45	4.81	1.98	1.79	0.47	0.66	0.32	1.14
IN.	0.38	0.32	1.19	5.14	1.51	5.54	2.21	2.06	0.52	0.76	0.37	1.27

e Estimated

03535400 BEAVER CREEK AT SOLWAY, TN--Continued

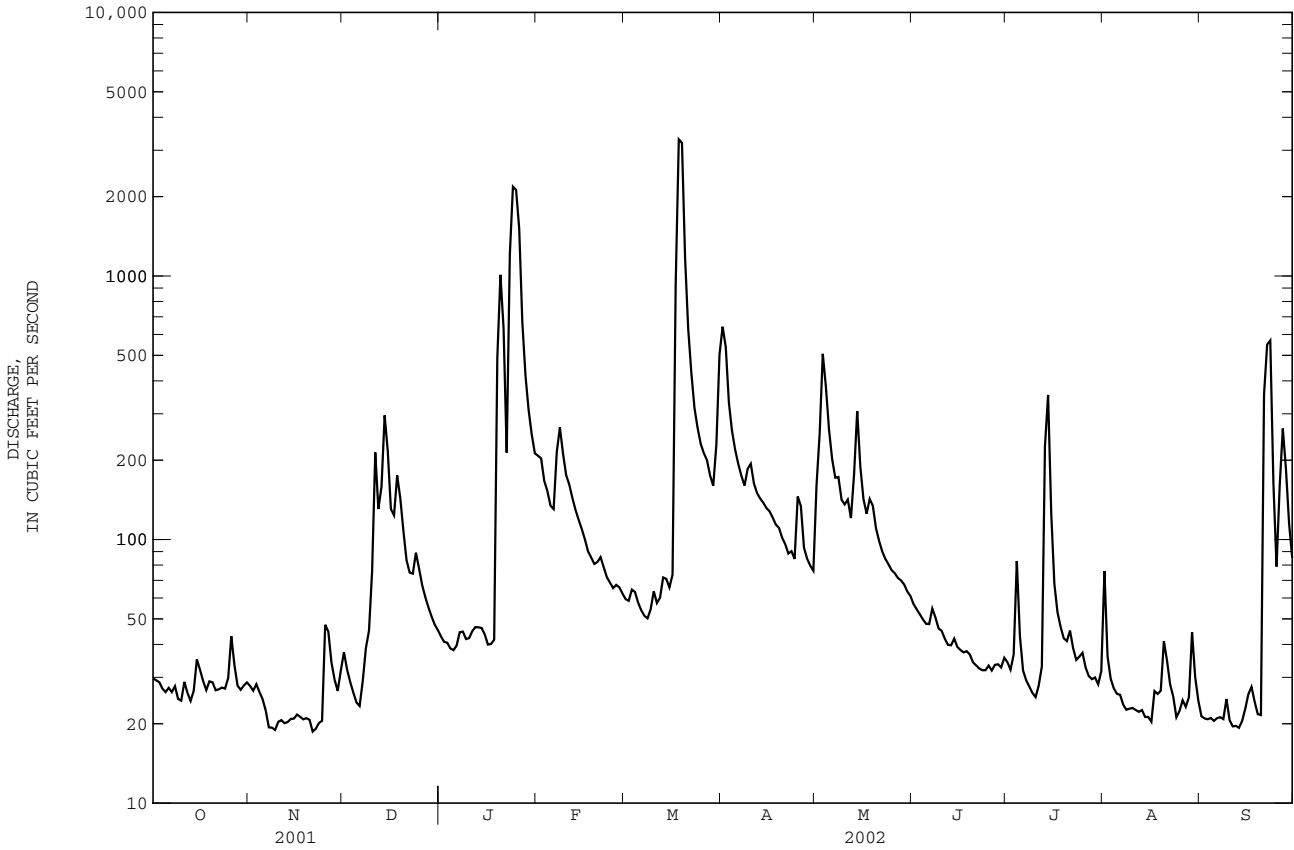
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	25.88	32.56	58.73	199.1	208.4	231.5	149.9	124.3	79.79	97.39	34.98	52.04
MAX	28.5	37.2	89.7	387	367	417	245	168	154	227	43.6	98.8
(WY)	2000	2001	2002	2002	2001	2002	2000	1999	1999	1999	2001	2002
MIN	20.6	24.5	34.9	98.1	126	113	84.4	43.5	40.1	37.8	27.0	25.6
(WY)	2001	2002	2000	2000	2002	2001	2001	2001	2001	2000	2000	1999

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1998 - 2002

ANNUAL TOTAL	31891	49649	
ANNUAL MEAN	87.37	136.0	104.9
HIGHEST ANNUAL MEAN			136 2002
LOWEST ANNUAL MEAN			84.5 2001
HIGHEST DAILY MEAN	1950	Feb 17	3300 Mar 18 2002
LOWEST DAILY MEAN	19	Nov 7	17 Oct 20 2000
ANNUAL SEVEN-DAY MINIMUM	20	Nov 7	18 Sep 14 2000
MAXIMUM PEAK FLOW			3530 Mar 19 2002
MAXIMUM PEAK STAGE			14.01 Mar 19 2002
INSTANTANEOUS LOW FLOW			a17 Nov 8 b16 Sep 16 2000
ANNUAL RUNOFF (CFSM)	1.01	1.57	1.21
ANNUAL RUNOFF (INCHES)	13.67	21.28	16.42
10 PERCENT EXCEEDS	156	239	191
50 PERCENT EXCEEDS	43	46	45
90 PERCENT EXCEEDS	26	22	24

a Also occurred Nov. 9, 11, 21, 22.
 b Also occurred Oct. 18, 19, 2000.



TENNESSEE RIVER BASIN

03538235 EAST FORK POPLAR CREEK AT BEAR CREEK ROAD AT OAK RIDGE, TN

LOCATION.--Lat 35°59'48", long 84°14'25", Anderson County, Hydrologic Unit 06010207, on left bank upstream from bridge on Bear Creek Road, 0.5 mi south of Oak Ridge, and at mile 14.4.

DRAINAGE AREA.--1.69 mi².

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

GAGE.--Water-stage recorder and concrete weir. Datum of gage is 890 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good below 100 ft³/s. Flow affected by operations of the Department of Energy, Y-12 Plant. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 708 ft³/s, gage height, 5.22 ft, Sept. 21; minimum, 3.5 ft³/s, gage height, 1.22 ft, Oct. 9, 10; minimum daily, 3.7 ft³/s, Oct. 9.

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	11	10	11	11	15	11	15	26	11	13	11	10
2	10	11	11	12	12	12	15	38	11	13	10	10
3	10	11	11	12	12	12	14	19	11	15	10	10
4	10	11	11	12	12	12	11	19	11	14	10	10
5	11	11	11	12	12	12	13	14	11	13	10	10
6	12	11	11	13	15	12	12	13	12	13	10	10
7	11	9.3	15	12	19	12	12	16	12	13	10	10
8	7.6	10	14	12	13	12	12	14	12	13	10	10
9	3.7	10	12	12	12	13	14	14	12	13	10	10
10	5.6	11	24	12	12	11	12	15	12	14	10	10
11	9.6	11	14	12	12	11	9.2	12	12	18	10	10
12	10	11	13	12	12	14	10	12	12	19	10	10
13	11	11	27	12	11	13	11	30	12	45	10	10
14	11	11	26	11	11	12	11	14	11	15	10	19
15	12	11	13	12	12	12	11	12	10	13	10	12
16	14	11	12	11	12	13	11	12	10	11	10	10
17	14	11	21	10	12	89	11	12	9.9	11	10	10
18	14	11	14	13	12	126	12	13	9.8	11	10	10
19	14	10	12	52	12	20	12	11	9.9	17	21	10
20	13	9.7	12	16	14	17	12	11	10	18	11	10
21	13	10	12	15	12	14	12	11	10	12	10	83
22	13	11	12	14	11	14	9.7	11	10	11	10	47
23	13	12	15	128	11	13	7.8	11	10	11	10	14
24	14	14	12	61	11	13	13	11	11	11	10	12
25	18	21	12	26	11	13	22	11	13	11	15	12
26	14	11	12	17	12	14	12	11	13	11	11	26
27	14	9.9	11	15	11	13	11	11	14	10	12	16
28	14	11	12	14	11	12	11	11	14	11	11	12
29	13	11	12	13	---	12	11	12	14	11	11	11
30	12	15	12	13	---	38	11	12	13	13	11	11
31	10	---	12	12	---	29	---	12	---	11	10	---
TOTAL	362.5	338.9	429	609	344	631	360.7	451	343.6	435	334	455
MEAN	11.69	11.30	13.84	19.65	12.29	20.35	12.02	14.55	11.45	14.03	10.77	15.17
MAX	18	21	27	128	19	126	22	38	14	45	21	83
MIN	3.7	9.3	11	10	11	11	7.8	11	9.8	10	10	10

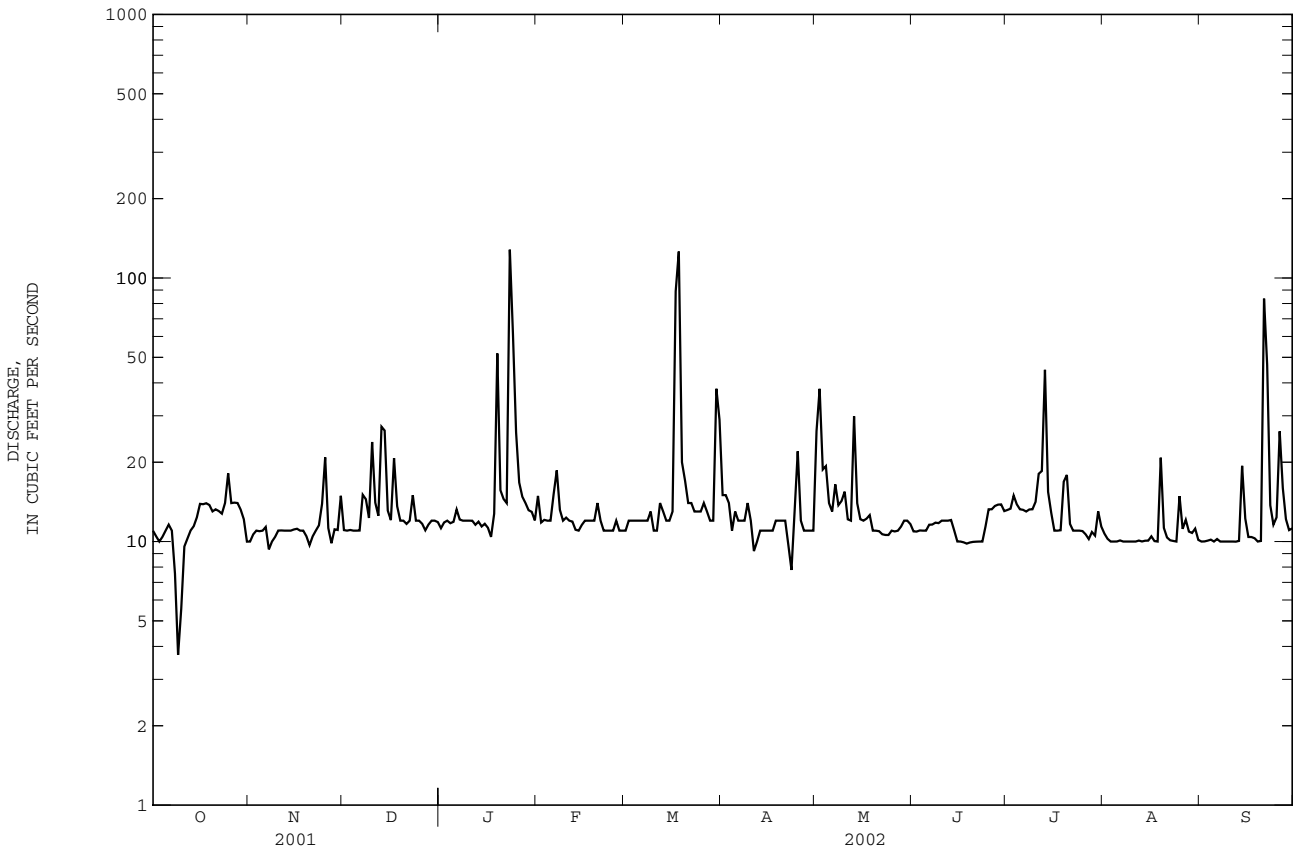
03538235 EAST FORK POPLAR CREEK AT BEAR CREEK ROAD AT OAK RIDGE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	9.400	10.47	11.11	13.15	12.78	13.44	12.80	11.48	11.73	12.51	10.55	10.53
MAX	11.9	14.5	15.0	19.6	18.1	20.4	23.8	15.9	17.5	20.8	15.5	15.2
(WY)	1998	1997	1999	2002	1994	2002	1998	2000	1998	1999	1996	2002
MIN	5.47	6.47	5.82	7.56	7.42	7.37	4.87	6.04	4.53	4.14	5.03	5.28
(WY)	1995	1995	1995	1993	1995	1995	1995	1994	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1993 - 2002
ANNUAL TOTAL	4723.0	5093.7	
ANNUAL MEAN	12.94	13.96	11.69
HIGHEST ANNUAL MEAN			14.1 1999
LOWEST ANNUAL MEAN			6.30 1995
HIGHEST DAILY MEAN	99 Feb 16	128 Jan 23	163 Dec 4 1993
LOWEST DAILY MEAN	3.7 Oct 9	3.7 Oct 9	3.3 Sep 30 1995
ANNUAL SEVEN-DAY MINIMUM	8.4 Oct 7	8.4 Oct 7	3.6 Oct 16 1995
MAXIMUM PEAK FLOW		708 Sep 21	a2000 Jul 23 1997
MAXIMUM PEAK STAGE		5.22 Sep 21	b14.36 Jul 23 1997
INSTANTANEOUS LOW FLOW		c3.5 Oct 9	1.7 Jul 24 1997
10 PERCENT EXCEEDS	15	16	16
50 PERCENT EXCEEDS	11	12	11
90 PERCENT EXCEEDS	10	10	4.9

- a From area-velocity estimated at contracted section downstream.
- b Affected by backwater. From high-water marks.
- c Also occurred on Oct. 10.



TENNESSEE RIVER BASIN

03539600 DADDYS CREEK NEAR HEBBERTSBURG, TN

LOCATION.--Lat 35°59'53", long 84°49'24", Cumberland County, Hydrologic Unit 06010208, on right bank, 200 ft downstream of Antioch Bridge, 2.1 mi southeast of Hebbertsburg, 6.9 mi northeast of Crab Orchard, and at mile 9.1.

DRAINAGE AREA.--139 mi².

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

GAGE.--Data collection platform. Datum of gage is 1,445 ft above NGVD of 1929, from topographic map, datum of 1929, supplementary adjustment of 1936. Prior to May 24, 1965, graphic water-stage recorder at same site and datum of 1929.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,000 ft³/s, Jan. 23, gage height, 12.49 ft; minimum discharge, 0.15 ft³/s, Sept. 13, 14.

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	6.6	11	244	87	344	89	2640	1440	27	3.9	4.8	1.2
2	6.3	11	205	81	407	86	1110	1640	24	3.5	4.3	0.87
3	5.8	10	137	75	345	95	657	3240	21	3.5	4.0	0.72
4	5.5	8.5	73	62	306	97	467	1750	18	3.5	3.6	0.64
5	5.3	7.8	58	61	253	92	355	1310	17	4.2	3.2	0.67
6	5.7	7.3	48	65	231	84	303	755	27	4.7	2.9	0.65
7	6.0	7.3	47	68	406	80	250	507	21	4.0	2.6	0.67
8	5.7	7.3	64	60	514	76	205	388	18	4.2	2.3	0.59
9	4.9	7.7	105	60	430	80	190	302	17	4.8	2.1	0.49
10	4.9	8.4	142	64	357	106	196	248	14	4.8	1.9	0.39
11	5.6	7.4	241	108	341	119	172	266	11	6.5	2.1	0.28
12	7.6	7.0	250	138	301	120	150	205	9.8	14	2.1	0.21
13	9.3	6.8	280	134	255	163	141	231	8.2	14	2.0	0.17
14	12	6.5	1410	123	216	188	132	411	7.9	35	1.8	0.23
15	14	6.5	1100	113	187	172	122	322	7.1	32	1.8	0.92
16	10	6.5	521	100	165	165	109	232	6.4	20	1.8	1.4
17	7.9	6.9	340	92	146	2970	98	177	6.2	14	1.8	1.7
18	10	7.5	393	95	129	8950	92	174	5.8	11	1.8	1.4
19	10	7.4	355	1130	118	2700	88	162	5.4	9.9	1.7	1.2
20	9.7	9.5	268	1880	122	1100	83	127	5.3	7.8	1.5	1.2
21	9.4	89	204	914	146	753	75	104	5.5	8.9	1.3	3.0
22	9.4	88	164	561	140	511	70	87	5.4	11	1.1	9.7
23	9.1	62	189	6960	127	395	62	74	4.7	7.7	1.1	11
24	9.2	27	365	7870	116	321	60	62	4.0	6.8	0.93	7.3
25	12	445	310	4540	105	266	1060	52	3.7	6.0	0.85	5.3
26	12	303	240	1570	103	242	671	46	3.7	9.2	0.80	12
27	11	132	191	880	104	247	417	49	3.9	11	0.77	93
28	12	85	157	618	99	212	318	45	4.6	8.6	0.78	93
29	12	62	135	420	---	179	261	40	5.2	6.9	0.91	55
30	12	181	116	333	---	245	207	35	4.5	6.0	1.4	34
31	12	---	100	281	---	2190	---	30	---	5.3	1.5	---
TOTAL	272.9	1632.3	8452	29543	6513	23093	10761	14511	322.3	292.7	61.54	338.90
MEAN	8.803	54.41	272.6	953.0	232.6	744.9	358.7	468.1	10.74	9.442	1.985	11.30
MAX	14	445	1410	7870	514	8950	2640	3240	27	35	4.8	93
MIN	4.9	6.5	47	60	99	76	60	30	3.7	3.5	0.77	0.17
CFSM	0.06	0.39	1.96	6.86	1.67	5.36	2.58	3.37	0.08	0.07	0.01	0.08
IN.	0.07	0.44	2.26	7.91	1.74	6.18	2.88	3.88	0.09	0.08	0.02	0.09

03539600 DADDYS CREEK NEAR HEBBERTSBURG, TN--Continued

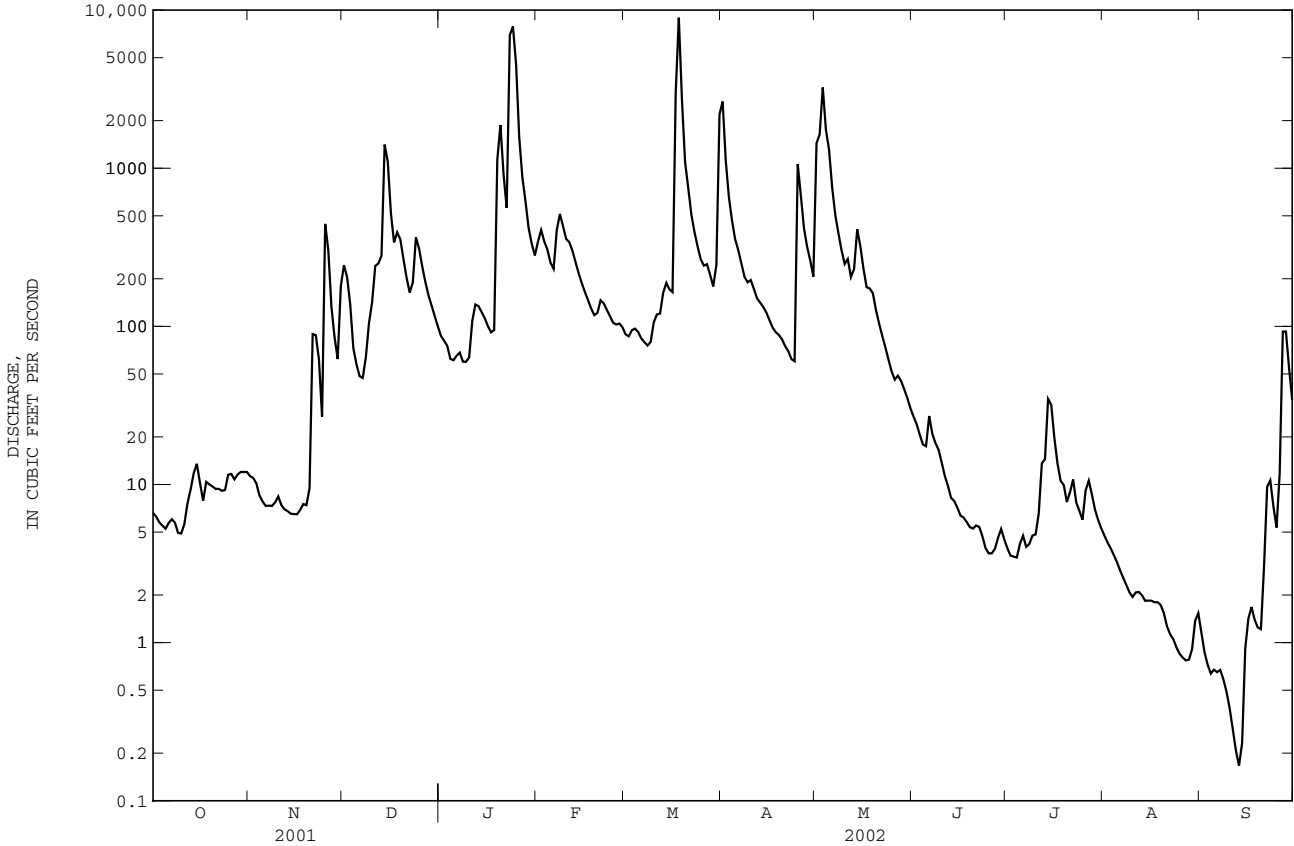
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	51.86	213.5	359.8	427.2	461.5	619.5	426.7	242.1	86.93	110.1	44.80	34.70
MAX	220	1271	860	953	887	1011	812	512	457	587	140	209
(WY)	1958	1958	1968	2002	1962	1963	1962	1958	1961	1967	1959	1960
MIN	0.52	2.44	12.5	188	99.2	251	94.1	27.2	10.7	9.44	1.66	0.62
(WY)	1964	1964	1964	2000	1968	2001	1963	1962	2002	2002	1957	1968

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1957 - 2002

ANNUAL TOTAL	63063.8		95793.64		247.2		
ANNUAL MEAN	172.8		262.4		115		1957
HIGHEST ANNUAL MEAN					368		1958
LOWEST ANNUAL MEAN					115		1957
HIGHEST DAILY MEAN	4300	Feb 17	8950	Mar 18	8950	Mar 18	2002
LOWEST DAILY MEAN	2.8	Sep 18	0.17	Sep 13	0.17	Sep 13	2002
ANNUAL SEVEN-DAY MINIMUM	3.3	Sep 13	0.34	Sep 8	0.27	Sep 11	1968
MAXIMUM PEAK FLOW			a13000	Jan 23	a13000	Jan 23	2002
MAXIMUM PEAK STAGE			a12.49	Jan 23	b13.23	Mar 12	1963
INSTANTANEOUS LOW FLOW			c0.15	Sep 13	c0.15	Sep 13	2002
ANNUAL RUNOFF (CFSM)	1.24		1.89		1.78		
ANNUAL RUNOFF (INCHES)	16.88		25.64		24.16		
10 PERCENT EXCEEDS	386		424		574		
50 PERCENT EXCEEDS	45		60		89		
90 PERCENT EXCEEDS	6.5		1.8		4.0		

- a From rating curve extended above 8,000 ft³/s, at site and datum presently in use.
- b From rating curve extended above 6,600 ft³/s, at site and datum then in use.
- c Also occurred Sept. 14.



03539778 CLEAR CREEK AT LILLY BRIDGE NEAR LANCING, TN

LOCATION.--Lat 36°06'11", long 84°43'06", Morgan County, Hydrologic Unit 06010208, on right bank 200 yards upstream of Lilly Bridge, 0.1 mi downstream of Little Clear Creek, 3.8 mi west-southwest of Lancing, and at mile 1.6.

DRAINAGE AREA.--170 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1997 to current year.

GAGE.--Data collection platform. Datum of gage is 1,040 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except during periods of missing record, which are fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREME FOR CURRENT PERIOD.--Maximum daily discharge, 11,000 ft³/s, estimated, maximum gage height 12.73, Jan. 24; minimum, 0.63 ft³/s, Sept. 13, 14.

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	6.0	6.6	117	107	301	110	2530	1910	66	33	25	2.2
2	5.1	6.7	110	103	357	108	1030	1490	55	28	23	1.9
3	4.3	6.4	88	94	302	115	674	1250	46	23	18	1.9
4	3.7	6.1	74	89	286	117	506	976	41	22	14	1.9
5	3.1	5.7	64	79	246	106	404	885	98	21	12	1.7
6	3.4	5.2	57	e75	227	100	336	636	79	18	10	1.4
7	2.7	4.9	54	e75	365	98	290	493	110	15	8.4	1.2
8	2.3	4.7	60	e75	536	95	253	392	98	45	6.9	1.2
9	2.1	4.5	121	e75	455	93	233	308	69	26	5.8	1.1
10	1.8	4.3	184	e85	377	107	215	267	51	24	5.1	0.96
11	1.5	4.1	238	e120	342	107	191	259	39	65	4.4	0.87
12	1.5	3.8	230	e145	292	107	174	220	32	46	3.7	0.79
13	2.2	3.8	199	e150	253	125	167	236	27	93	3.2	0.67
14	3.3	3.8	700	e150	221	144	161	464	24	236	2.8	0.81
15	3.1	3.7	674	e145	199	141	157	329	26	167	4.7	1.3
16	2.9	3.6	388	e140	e180	205	148	254	33	94	5.4	1.6
17	3.4	3.5	287	e135	e170	e5700	134	209	28	60	4.6	3.0
18	3.4	3.6	303	e130	e150	e11000	125	249	23	43	3.9	4.4
19	4.1	3.9	279	1050	e140	e3250	117	265	19	33	4.6	4.2
20	6.7	3.1	229	1590	141	e1150	111	205	16	34	5.1	5.0
21	6.6	3.0	189	740	183	992	105	173	14	34	4.1	15
22	6.2	3.0	162	479	162	682	106	149	12	31	3.5	65
23	6.3	3.0	170	6330	144	523	111	128	11	42	2.7	59
24	5.7	4.3	333	9370	134	422	111	112	9.9	35	2.3	31
25	6.5	280	268	4470	126	349	2770	98	9.5	175	2.3	21
26	6.6	275	225	1340	123	354	1210	84	11	133	2.6	48
27	6.6	140	201	757	127	616	668	187	141	81	3.9	224
28	5.8	99	173	542	119	467	502	160	86	57	4.7	147
29	5.7	76	153	420	---	385	488	119	53	55	3.7	84
30	6.3	78	134	345	---	333	366	96	43	39	3.2	55
31	6.4	---	117	292	---	1790	---	78	---	31	2.6	---
TOTAL	135.3	1053.3	6581	29697	6658	29891	14393	12681	1370.4	1839	206.2	787.10
MEAN	4.365	35.11	212.3	958.0	237.8	964.2	479.8	409.1	45.68	59.32	6.652	26.24
MAX	6.7	280	700	9370	536	11000	2770	1910	141	236	25	224
MIN	1.5	3.0	54	75	119	93	105	78	9.5	15	2.3	0.67
CFSM	0.03	0.21	1.25	5.64	1.40	5.67	2.82	2.41	0.27	0.35	0.04	0.15
IN.	0.03	0.23	1.44	6.50	1.46	6.54	3.15	2.77	0.30	0.40	0.05	0.17

e Estimated

03539778 CLEAR CREEK AT LILLY BRIDGE NEAR LANCING, TN--Continued

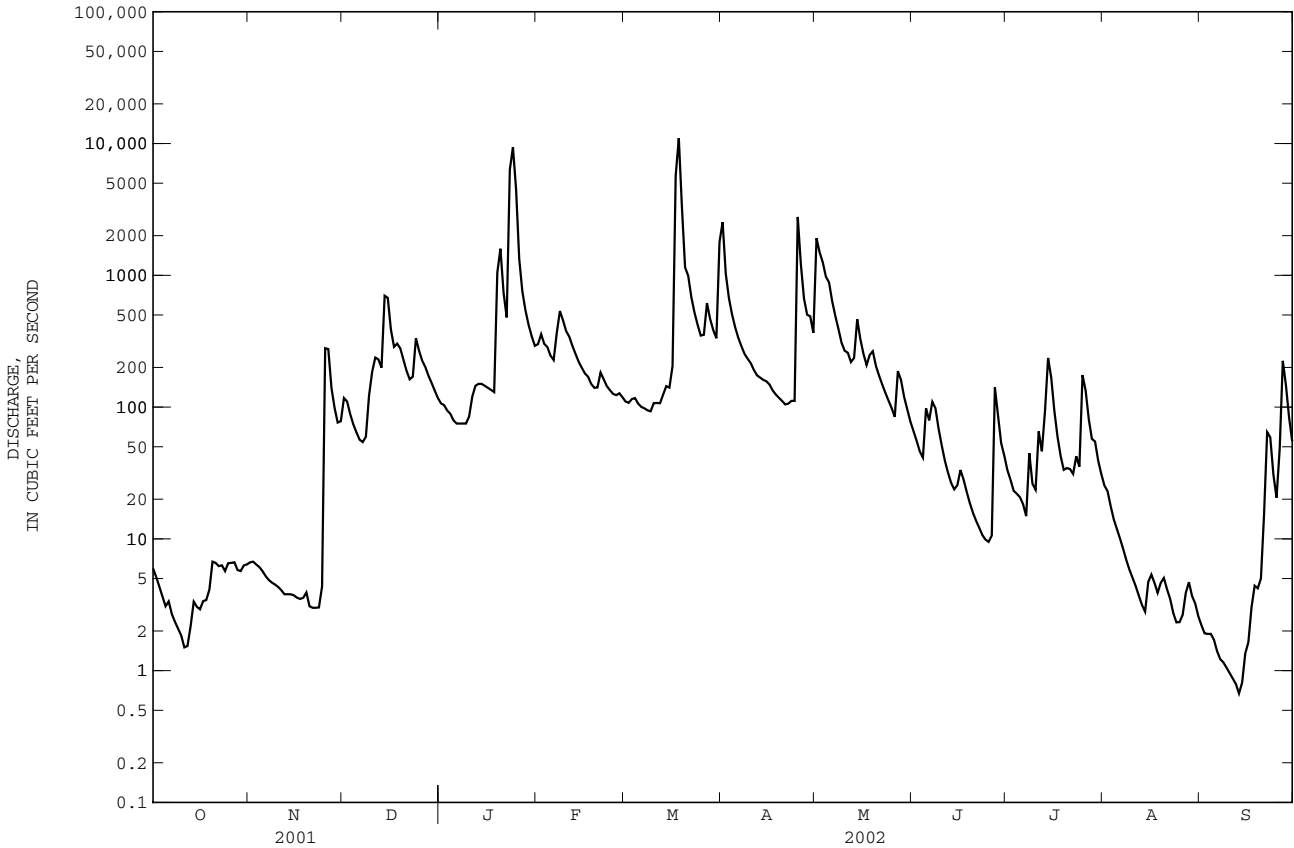
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4.218	19.82	186.6	681.4	532.1	518.3	469.1	318.9	243.7	99.27	33.80	7.277
MAX	9.46	36.6	423	962	1145	964	1118	635	782	349	104	26.2
(WY)	1999	1998	1999	1999	2001	2002	1998	1998	1997	1999	1998	2002
MIN	0.81	5.07	32.4	141	238	250	206	80.3	30.6	11.9	4.65	1.67
(WY)	2000	1999	2000	2000	2002	2001	2001	2001	2001	2000	1997	1997

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1997 - 2002

ANNUAL TOTAL	72476.8	105292.30	
ANNUAL MEAN	198.6	288.5	252.5
HIGHEST ANNUAL MEAN			378 1998
LOWEST ANNUAL MEAN			138 2000
HIGHEST DAILY MEAN	8500 Feb 17	11000 Mar 18	11000 Mar 18 2002
LOWEST DAILY MEAN	1.5 Oct 11	0.67 Sep 13	0.17 Oct 8 1999
ANNUAL SEVEN-DAY MINIMUM	2.0 Oct 7	0.91 Sep 8	0.23 Oct 2 1999
MAXIMUM PEAK FLOW		15400 Jan 24	a27300 Jan 7 1998
MAXIMUM PEAK STAGE		12.73 Jan 24	14.24 Jan 7 1998
INSTANTANEOUS LOW FLOW		b0.63 Sep 13	c0.16 Oct 8 1999
ANNUAL RUNOFF (CFSM)	1.17	1.70	1.49
ANNUAL RUNOFF (INCHES)	15.86	23.04	20.18
10 PERCENT EXCEEDS	310	490	533
50 PERCENT EXCEEDS	59	93	68
90 PERCENT EXCEEDS	4.0	3.1	2.3

- a From rating curve extended above 6,710 ft³/s.
- b Also occurred Sept. 14.
- c Also occurred Oct. 9, 1999.



TENNESSEE RIVER BASIN

03539778 CLEAR CREEK AT LILLY BRIDGE NEAR LANCING, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-A-TURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
NOV 19...	1045	10	87	6.5	9.0	739	.3	11.1	99	--	0	24	20
JAN 16...	1115	142	47	7.0	2.0	743	1.1	14.6	108	--	--	5	4
FEB 21...	1300	196	41	7.0	6.5	735	.7	12.5	105	E4	--	5	4
MAR 19...	1230	2110	34	6.7	11.5	735	10	11.5	109	E1400	--	4	3
JUN 07...	1130	143	47	6.9	23.5	733	1.2	7.8	95	26	--	8	7
JUL 24...	1145	36	46	6.9	25.5	725	1.3	7.4	95	20	--	12	10
SEP 03...	1200	2.7	76	7.2	27.0	736	1.2	6.8	89	<1	--	23	19

Date	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 19...	5.9	8.64	<.008	<.05	<.04	.19	--	.004	<.02	.6
JAN 16...	5.9	4.92	<.008	.33	<.04	.12	.44	<.004	<.02	.8
FEB 21...	5.9	3.28	<.008	.23	<.04	E.10	--	<.004	<.02	1.3
MAR 19...	5.4	1.88	<.008	.20	<.04	.29	.49	.018	<.02	17
JUN 07...	5.9	3.32	<.008	.12	<.04	.21	.33	.010	<.02	.6
JUN 19...	--	--	--	--	--	--	--	--	--	--
JUL 24...	3.5	3.36	<.008	<.05	<.04	.16	--	.009	<.02	.4
SEP 03...	4.2	8.16	<.008	E.04	<.04	.20	--	.008	<.02	.3

E--Estimated

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TENNESSEE RIVER BASIN

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.--Water-stage recorder. Datum of gage is 891.91 ft above NGVD of 1929.

REMARKS.--Records goods except for Dec. 31, Jan. 9 to May 28 to July 12, 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)
Jan 23	2000	*50,100	*21.55	Mar 31	2315	15,700	12.21
Mar 18	1000	41,600	19.88	Apr 25	0930	13,700	11.42

Minimum discharge, 2.7 ft³/s, Sept. 13.

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	30	26	625	e350	1190	365	9270	5060	e140	e75	59	7.3
2	26	25	521	e320	1550	352	4180	5480	e120	e65	56	6.4
3	23	25	412	e290	1280	389	2540	8230	e100	e60	45	5.9
4	20	23	297	e240	1160	388	1850	5000	e90	e50	36	5.6
5	19	23	243	e240	971	359	1430	4000	e220	e45	30	5.3
6	19	21	208	e250	854	333	1150	2610	e250	e45	25	4.9
7	17	21	194	e280	1400	320	940	1880	e250	e40	20	4.8
8	15	20	209	e230	2030	312	788	1460	e230	e35	17	4.4
9	13	19	366	e230	1750	307	711	1110	e190	e35	15	4.0
10	13	19	550	242	1470	356	677	897	e150	e35	13	3.5
11	15	18	741	400	1340	395	600	911	e110	e30	11	3.2
12	16	18	829	663	1150	385	535	753	e80	e60	10	2.9
13	14	17	711	610	970	456	504	731	e65	e99	8.9	2.7
14	17	18	3030	540	804	561	477	1670	e55	e366	8.2	4.0
15	16	17	3120	483	708	543	446	1210	e45	e351	7.9	5.1
16	19	17	1680	426	642	757	416	884	e35	e217	9.9	4.8
17	37	17	1130	388	580	11700	376	689	e30	e129	13	5.1
18	29	16	1300	388	509	30300	347	708	e30	e85	12	6.9
19	24	16	1220	2930	456	9830	329	732	e25	e68	10	8.6
20	22	17	921	6330	453	4510	314	559	e25	e70	9.5	7.2
21	24	16	687	3180	612	3310	293	465	e20	e65	9.4	20
22	24	96	575	2000	581	2320	291	408	e20	e58	8.3	81
23	22	108	553	22400	508	1780	292	368	e20	e84	7.8	132
24	22	79	1200	30000	453	1460	287	336	e20	e81	8.5	88
25	22	1050	1090	18300	419	1200	7130	312	e15	e252	8.0	65
26	20	1170	840	5940	402	1120	4020	291	e15	e303	7.3	94
27	20	537	685	3260	420	1690	2200	355	e40	e207	7.1	504
28	23	357	582	2280	407	1350	1610	e340	e150	e142	9.2	527
29	29	279	504	1710	---	1130	1410	e280	e105	e117	10	330
30	25	298	436	1370	---	1030	1060	e215	e85	e84	8.7	223
31	26	---	e380	1140	---	5330	---	e175	---	e65	8.7	---
TOTAL	661	4383	25839	107410	25069	84638	46473	48119	2730	3418	509.4	2166.6
MEAN	21.32	146.1	833.5	3465	895.3	2730	1549	1552	91.00	110.3	16.43	72.22
MAX	37	1170	3120	30000	2030	30300	9270	8230	250	366	59	527
MIN	13	16	194	230	402	307	287	175	15	30	7.1	2.7
CFSM	0.04	0.28	1.61	6.69	1.73	5.27	2.99	3.00	0.18	0.21	0.03	0.14
IN.	0.05	0.31	1.86	7.71	1.80	6.08	3.34	3.46	0.20	0.25	0.04	0.16

e Estimated

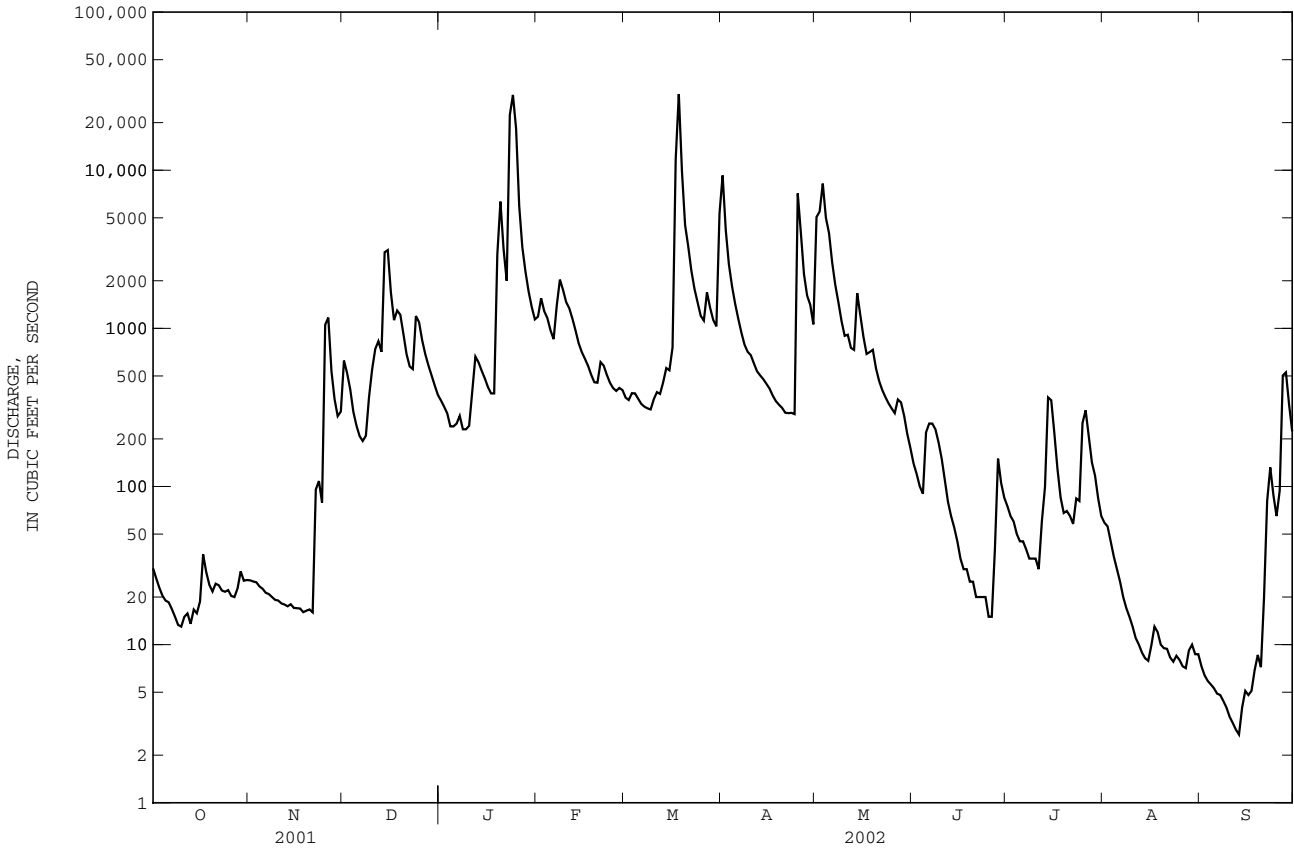
03539800 OBED RIVER NEAR LANCING, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	274.2	950.9	1430	1773	1710	2262	1533	1096	378.8	397.3	149.0	156.8
MAX	1552	3829	3149	4780	3611	6220	3522	4066	1475	2572	587	856
(WY)	1976	1958	1968	1974	1962	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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1957 - 2002
ANNUAL TOTAL	222816	351416.0	
ANNUAL MEAN	610.5	962.8	991.8
HIGHEST ANNUAL MEAN			1770 1973
LOWEST ANNUAL MEAN			184 1988
HIGHEST DAILY MEAN	16800 Feb 17	30300 Mar 18	45000 Apr 4 1977
LOWEST DAILY MEAN	10 Sep 18	2.7 Sep 13	0.50 Oct 30 1963
ANNUAL SEVEN-DAY MINIMUM	12 Sep 15	3.5 Sep 8	0.61 Oct 25 1963
MAXIMUM PEAK FLOW		50100 Jan 23	a105000 May 27 1973
MAXIMUM PEAK STAGE		21.55 Jan 23	b29.51 May 27 1973
INSTANTANEOUS LOW FLOW		2.7 Sep 13	0.40 Oct 31 1963
ANNUAL RUNOFF (CFSM)	1.18	1.86	1.91
ANNUAL RUNOFF (INCHES)	16.00	25.24	26.01
10 PERCENT EXCEEDS	1290	1730	2320
50 PERCENT EXCEEDS	175	252	373
90 PERCENT EXCEEDS	18	10	17

- 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.



TENNESSEE RIVER BASIN

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 Emory River at Harriman and October 1929 to September 1934 as Emory 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)
Jan 23	2130	*75,200	*28.85	Mar 31	2330	20,600	16.99
Mar 18	1030	62,800	26.56				

Minimum discharge, 5.0 ft³/s, Sept. 13, 14.

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	49	30	841	501	1540	528	13200	5530	189	79	85	11
2	41	32	759	443	2020	503	5940	7400	157	64	77	9.8
3	34	30	606	439	1750	545	3590	10700	132	55	72	8.7
4	29	29	454	374	1610	553	2560	6760	119	59	61	7.9
5	24	28	352	340	1390	513	1960	5430	151	49	52	7.2
6	25	27	299	379	1240	475	1590	3580	283	43	45	6.6
7	21	25	276	395	1780	452	1330	2550	225	35	36	6.2
8	19	25	310	371	2890	437	1150	1930	256	30	29	5.8
9	18	23	480	346	2570	435	1050	1490	181	37	24	5.6
10	15	21	819	349	2120	508	1010	1230	139	53	20	5.5
11	13	20	1220	458	1870	561	891	1190	107	84	17	5.5
12	13	19	1340	840	1610	564	800	1040	86	96	15	5.4
13	17	19	1300	839	1390	643	758	956	75	167	13	5.1
14	22	18	5410	771	1190	767	724	1850	68	523	11	5.6
15	59	18	4990	704	1050	769	684	1520	63	611	9.6	6.8
16	44	18	2560	632	954	924	635	1170	59	355	9.0	6.8
17	32	17	1710	572	860	13800	576	937	64	215	8.8	7.6
18	45	16	1930	566	757	44100	525	865	60	145	11	8.0
19	43	16	1830	3920	679	14200	490	966	51	110	25	7.8
20	36	17	1410	9660	677	6250	460	761	44	143	27	7.8
21	31	17	1080	4810	837	4460	427	627	40	120	32	40
22	31	16	890	2930	822	3110	422	529	34	97	25	123
23	31	94	881	31000	733	2340	421	454	29	85	19	237
24	29	109	1630	42400	666	1890	400	394	25	131	15	160
25	30	1090	1620	27300	625	1560	7070	338	23	150	13	108
26	29	1600	1300	8650	599	1390	5420	290	24	353	12	130
27	27	792	1070	4680	602	1900	2940	348	25	253	11	725
28	25	522	902	3180	587	1590	2090	461	166	184	9.4	976
29	24	391	777	2380	---	1370	1800	359	119	147	8.8	561
30	34	442	673	1870	---	1290	1400	282	92	135	11	349
31	33	---	583	1560	---	6130	---	230	---	100	13	---
TOTAL	923	5521	40302	153659	35418	114557	62313	62167	3086	4708	816.6	3549.7
MEAN	29.77	184.0	1300	4957	1265	3695	2077	2005	102.9	151.9	26.34	118.3
MAX	59	1600	5410	42400	2890	44100	13200	10700	283	611	85	976
MIN	13	16	276	340	587	435	400	230	23	30	8.8	5.1
MED	29	25	902	771	1120	924	1030	966	81	110	17	7.9
CFSM	0.04	0.24	1.70	6.49	1.66	4.84	2.72	2.62	0.13	0.20	0.03	0.15
IN.	0.04	0.27	1.96	7.48	1.72	5.58	3.03	3.03	0.15	0.23	0.04	0.17

03540500 EMORY RIVER AT OAKDALE, TN--Continued

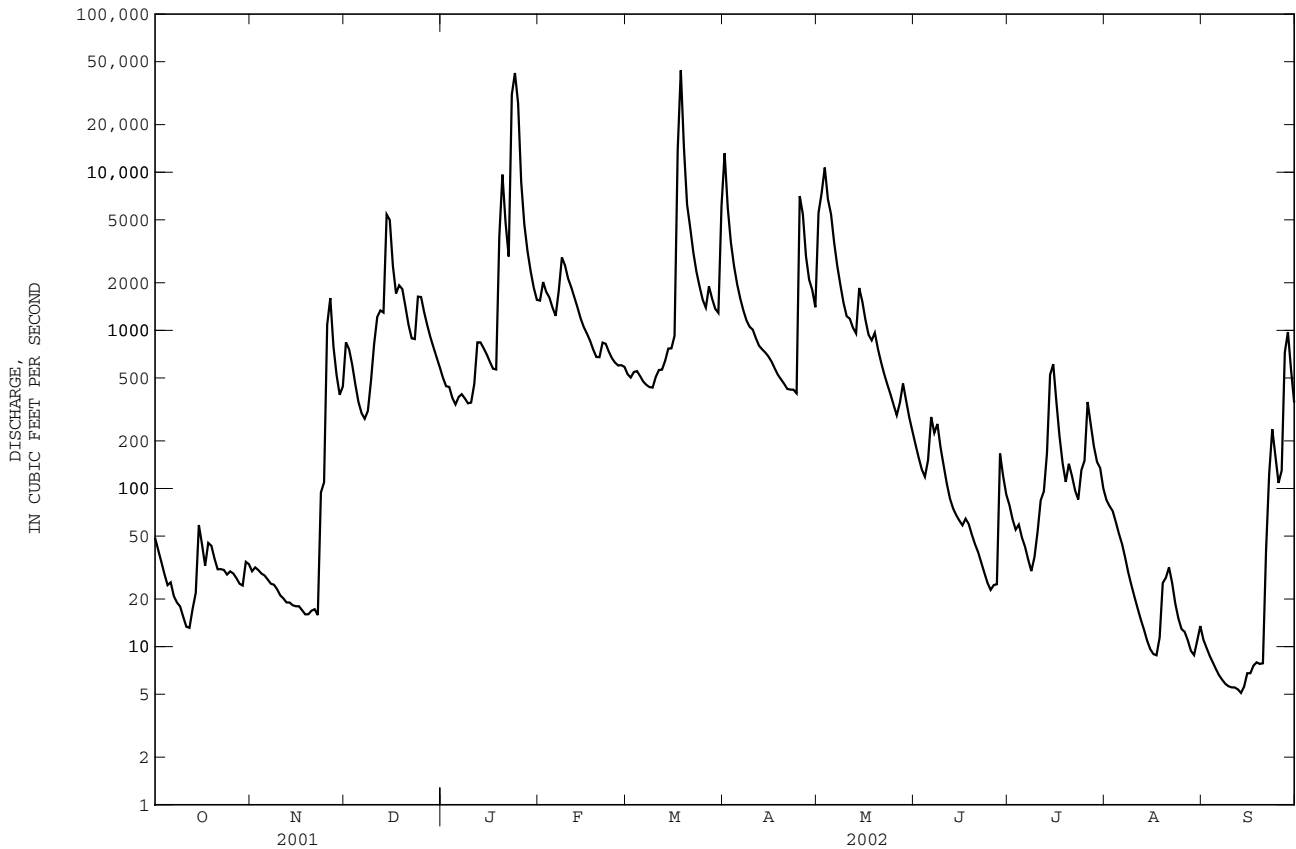
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	278.4	1048	2192	2840	2966	3152	2171	1331	712.8	495.3	278.3	226.8
MAX	1971	6214	7938	7941	8136	8962	5808	5804	6731	3694	2107	1562
(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

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1927 - 2002

ANNUAL TOTAL	327534		487020.3			
ANNUAL MEAN	897.4		1334		1464	
HIGHEST ANNUAL MEAN					2653	
LOWEST ANNUAL MEAN					441	
HIGHEST DAILY MEAN	24900		Feb 17		44100	
LOWEST DAILY MEAN	11		Sep 18		5.1	
ANNUAL SEVEN-DAY MINIMUM	17		Oct 7		5.5	
MAXIMUM PEAK FLOW					75200	
MAXIMUM PEAK STAGE					28.85	
INSTANTANEOUS LOW FLOW					d5.0	
ANNUAL RUNOFF (CFSM)	1.17				1.75	
ANNUAL RUNOFF (INCHES)	15.95				23.71	
10 PERCENT EXCEEDS	1880				2450	
50 PERCENT EXCEEDS	276				353	
90 PERCENT EXCEEDS	25				15	

- 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 measurements 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.
- d Also occurred on Sept. 14.



TENNESSEE RIVER BASIN

03566000 HIWASSEE RIVER AT CHARLESTON, TN

LOCATION.--Lat 35°17'16", long 84°45'07", until April 9, 1996, lat 35°17'17", long 84°45'10", until Nov. 10, 1998, lat 35°17'42", long 84°45'36" thereafter, Hydrologic Unit 06020002, on left bank 250 ft upstream from Norfolk Southern Railway bridge until April 9, 1996, at Norfolk Southern Railway bridge until Nov. 10, 1998, on right bank at dolphin at Bowater Southern Paper Company's barge facility thereafter, 0.3 mi downstream from bridge on U.S. Highway 11 at Charleston, and at mile 18.2.

DRAINAGE AREA.--2,298 mi².

PERIOD OF RECORD.--November 1898 to April 1899, November 1899 to April 1903, October 1919 to January 1940, January 1963 to January 1977, September 1979 to December 1981 (vane lost), August 1987 to current year. Gage-height records collected at this station during the period December 1884 to December 1889 are contained in the United States War Department Stages of Ohio River and Principal Tributaries, 1858-89, Part 1, and during period January 1890 to December 1943 in reports of the U.S. Weather Bureau.

REVISED RECORDS.--WSP 853: Drainage area. WSP 1436: 1902, 1922(M), 1928, 1936(M).

GAGE.--Data collection platform and velocity recorder. Datum of gage is 665.56 ft above NGVD of 1929. Prior to July 18, 1925, non-recording gages, and July 18, 1925 to September 6, 1926, water-stage recorder, at present site, at datum 1.50 ft higher. September 1926 to January 1940, January 1963 to January 1977, September 1979 to December 1981, August 1987 to April 1996, on left bank 250 ft upstream of present site, at same datum.

REMARKS.--Records good except for estimated discharges, which are poor. Some diversions above gage for industrial and municipal water supplies. Flow regulated by seven reservoirs (see p. 262 and Water Resources Data for Georgia and North Carolina). Reverse flow has occurred for short periods each year since closure of Chickamauga Dam on Tennessee River in 1939. 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 Mar. 31, 1886, reached a stage of 34.0 ft, present datum, discharge about 70,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,700 ft³/s, Jan. 25; maximum gage height, 19.40 ft, Jan. 25; minimum daily, 645 ft³/s, Nov. 24, minimum gage height, 9.92 ft, Jan. 5.

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	2470	1400	1970	2440	5880	1880	8730	1230	2800	2330	3230	2450
2	3470	2270	1310	3440	6240	1600	5110	2620	2790	1480	3590	1730
3	4360	2550	1820	4320	5400	1100	4490	2960	3070	1960	4550	2420
4	3890	2440	3480	2860	5080	2740	3780	8050	3360	2200	3860	2950
5	3510	2590	3980	3160	5160	2440	3480	11200	3680	2040	4130	2910
6	2680	3320	2930	1430	4420	1790	2570	4120	3830	2060	3560	2690
7	2670	3490	3150	e2700	4750	2320	2110	3500	3320	2040	3440	3530
8	3370	2900	2620	e2100	5630	1770	2600	3400	2650	2500	3040	3390
9	3340	2680	2830	e1700	4640	1060	2040	3350	2510	2140	3480	2910
10	3720	2400	3860	e2100	2470	2050	2170	3080	2540	2340	2870	3960
11	3120	2500	4220	e1700	3050	1310	1970	2380	2810	2430	2120	3920
12	3540	3050	2450	e1200	4100	1490	1740	2170	3100	1610	2360	3090
13	3600	3060	2970	e1400	4310	2390	1690	2770	3530	1620	3150	2360
14	3520	3980	5150	e2100	3910	2260	1590	2770	2770	2440	3220	2890
15	3870	3270	4110	e1700	3640	1540	1750	2190	2620	2250	2890	2450
16	4540	2920	2860	1670	2650	1900	2570	e2100	1880	2300	2940	2070
17	4730	1910	3510	2240	1910	2610	1870	e2300	2340	3730	2950	2320
18	4090	780	5810	3280	2840	3000	1670	3120	3010	3820	2400	2490
19	3810	1470	5950	4370	2030	3900	1580	2990	3080	3590	2740	2960
20	2460	2640	5070	10300	2340	4670	2020	2670	2380	3050	3680	3440
21	1280	4250	4480	5530	2360	4330	2750	2150	1990	2170	3340	5930
22	2440	2130	5270	6790	2050	4730	3060	1880	1700	3090	3150	11100
23	3020	939	1590	11300	1950	3470	2040	2230	1780	3930	3770	6020
24	2950	645	3530	15700	1490	3090	1260	1910	1280	2850	3750	4320
25	2840	778	3930	22300	1460	1820	1500	2970	2040	3110	2740	4590
26	3060	1910	3240	15600	1190	2060	1530	2450	2020	2730	3470	8300
27	2520	1560	3340	11500	1890	2760	781	2770	2120	3310	2920	6470
28	2610	1160	2670	8610	1740	2040	1070	1910	1880	3570	3090	5580
29	2880	1240	2150	12800	---	1970	1320	2410	1590	3560	3500	4990
30	2620	1010	4320	12300	---	7590	1130	2960	1600	3840	3690	4930
31	2630	---	3800	10800	---	12600	---	2960	---	3730	3280	---
TOTAL	99610	67242	108370	189440	94580	90280	71971	95570	76070	83820	100900	119160
MEAN	3213	2241	3496	6111	3378	2912	2399	3083	2536	2704	3255	3972
MAX	4730	4250	5950	22300	6240	12600	8730	11200	3830	3930	4550	11100
MIN	1280	645	1310	1200	1190	1060	781	1230	1280	1480	2120	1730

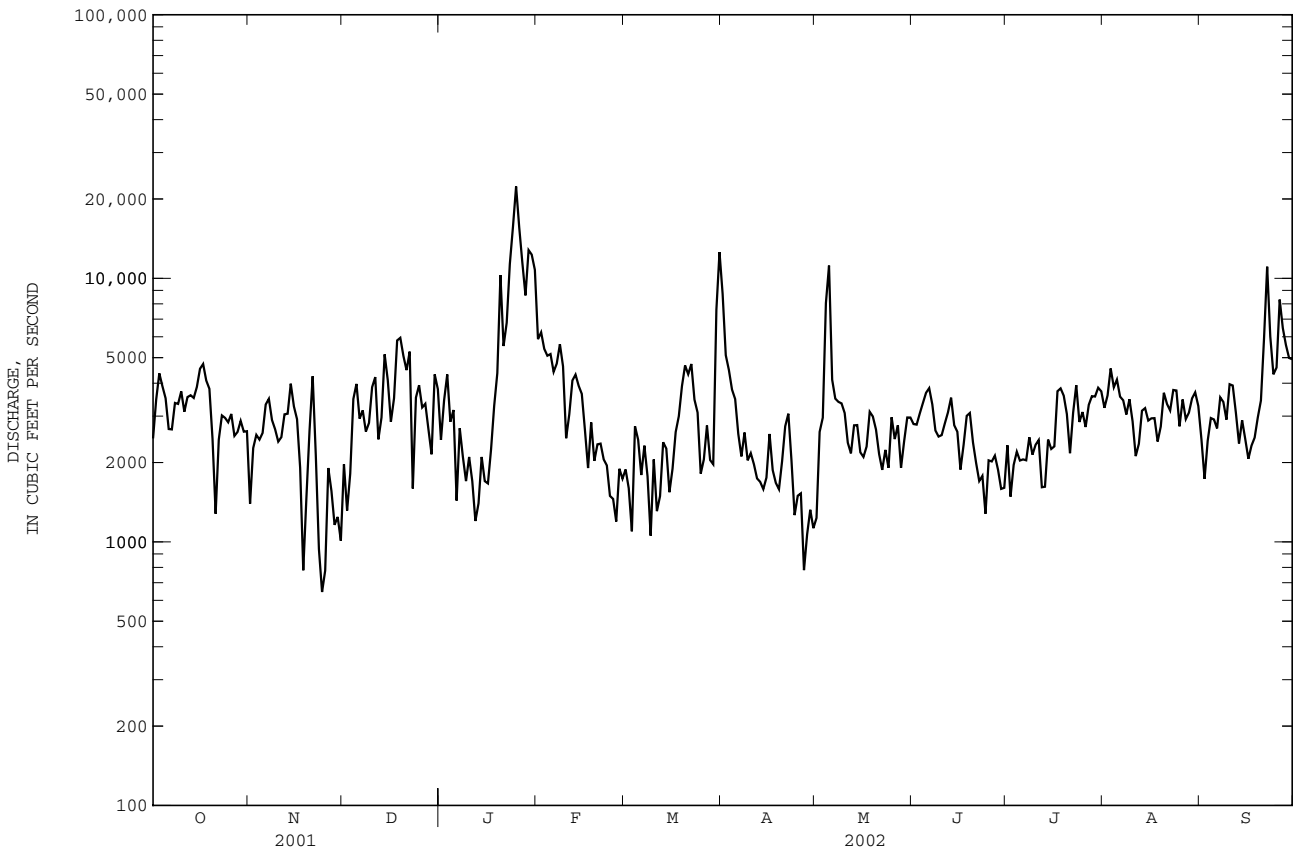
e Estimated

03566000 HIWASSEE RIVER AT CHARLESTON, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3903	4259	5323	6015	6253	5978	4366	3695	3855	3763	3834	3606
MAX	9332	8638	12980	13060	16270	13860	11950	7922	8897	6975	6201	5118
(WY)	1990	1968	1968	1974	1990	1990	1994	1973	1989	1967	1967	1967
MIN	1442	1681	2070	2318	1623	1866	1110	971	1395	1750	1810	1747
(WY)	1989	1982	1988	2000	2000	1988	1988	1988	1988	1988	1988	1987

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1964 - 2002
ANNUAL TOTAL	1068672	1197013	
ANNUAL MEAN	2928	3279	4563
HIGHEST ANNUAL MEAN			6891
LOWEST ANNUAL MEAN			1894
HIGHEST DAILY MEAN	12400	Jan 20	22300
LOWEST DAILY MEAN	645	Nov 24	645
ANNUAL SEVEN-DAY MINIMUM	1080	Jan 11	1180
MAXIMUM PEAK FLOW			24700
MAXIMUM PEAK STAGE			19.40
10 PERCENT EXCEEDS	4520	4950	7430
50 PERCENT EXCEEDS	2670	2830	4000
90 PERCENT EXCEEDS	1400	1590	2030



TENNESSEE RIVER BASIN

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.--Water-stage recorder. Datum of gage is 775 ft above NGVD of 1929, from topographic map.

REMARKS.--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)
Jan 23	1745	1,540	12.93	Mar 18	1330	*3,560	*14.94
Jan 24	1930	1,450	12.78	Sep 21	2115	1,710	13.20
Mar 17	1830	1,210	12.33				

Minimum discharge, 12 ft³/s, Nov. 18, 19, 21.

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	17	15	18	29	123	42	247	108	42	25	32	17
2	17	15	16	28	106	42	192	73	41	25	23	18
3	17	14	15	29	97	42	163	137	41	29	21	18
4	16	14	15	27	89	41	143	301	45	28	20	18
5	15	14	15	26	82	40	130	167	47	25	20	18
6	15	14	15	30	90	38	115	132	38	24	20	17
7	15	14	20	31	123	38	105	113	36	23	20	15
8	15	14	20	29	104	37	100	99	35	23	19	15
9	15	14	17	28	90	37	100	99	34	23	19	15
10	15	14	41	28	85	37	91	96	33	26	18	16
11	15	13	52	27	81	36	82	87	33	26	18	16
12	14	14	26	25	78	56	78	74	32	24	18	15
13	14	14	115	25	74	52	74	115	32	33	18	16
14	15	14	133	25	68	47	70	115	31	31	18	17
15	15	14	59	24	67	45	68	87	31	27	19	18
16	15	14	46	23	61	65	65	79	29	25	21	17
17	15	13	99	24	58	574	62	75	29	24	21	17
18	15	13	96	24	56	1630	59	100	29	24	20	19
19	15	13	61	423	54	466	57	74	29	23	21	18
20	15	13	51	227	59	281	55	67	28	23	23	17
21	14	13	46	135	56	220	52	63	27	22	20	261
22	14	13	41	106	50	175	52	59	27	42	18	140
23	15	13	43	879	48	154	50	57	27	25	19	39
24	15	16	44	987	46	140	49	54	27	23	18	31
25	27	32	38	781	45	128	51	51	29	30	31	33
26	16	18	37	293	45	120	47	50	27	29	30	74
27	14	16	35	212	43	109	47	48	27	22	30	72
28	14	15	34	176	42	100	51	48	26	23	23	47
29	15	15	33	154	---	94	47	47	27	23	20	39
30	15	29	31	138	---	236	45	45	26	21	20	35
31	15	---	30	124	---	400	---	49	---	25	18	---
TOTAL	479	457	1342	5117	2020	5522	2547	2769	965	796	656	1108
MEAN	15.45	15.23	43.29	165.1	72.14	178.1	84.90	89.32	32.17	25.68	21.16	36.93
MAX	27	32	133	987	123	1630	247	301	47	42	32	261
MIN	14	13	15	23	42	36	45	45	26	21	18	15
CFSM	0.37	0.36	1.03	3.92	1.71	4.23	2.02	2.12	0.76	0.61	0.50	0.88
IN.	0.42	0.40	1.19	4.52	1.78	4.88	2.25	2.45	0.85	0.70	0.58	0.98

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

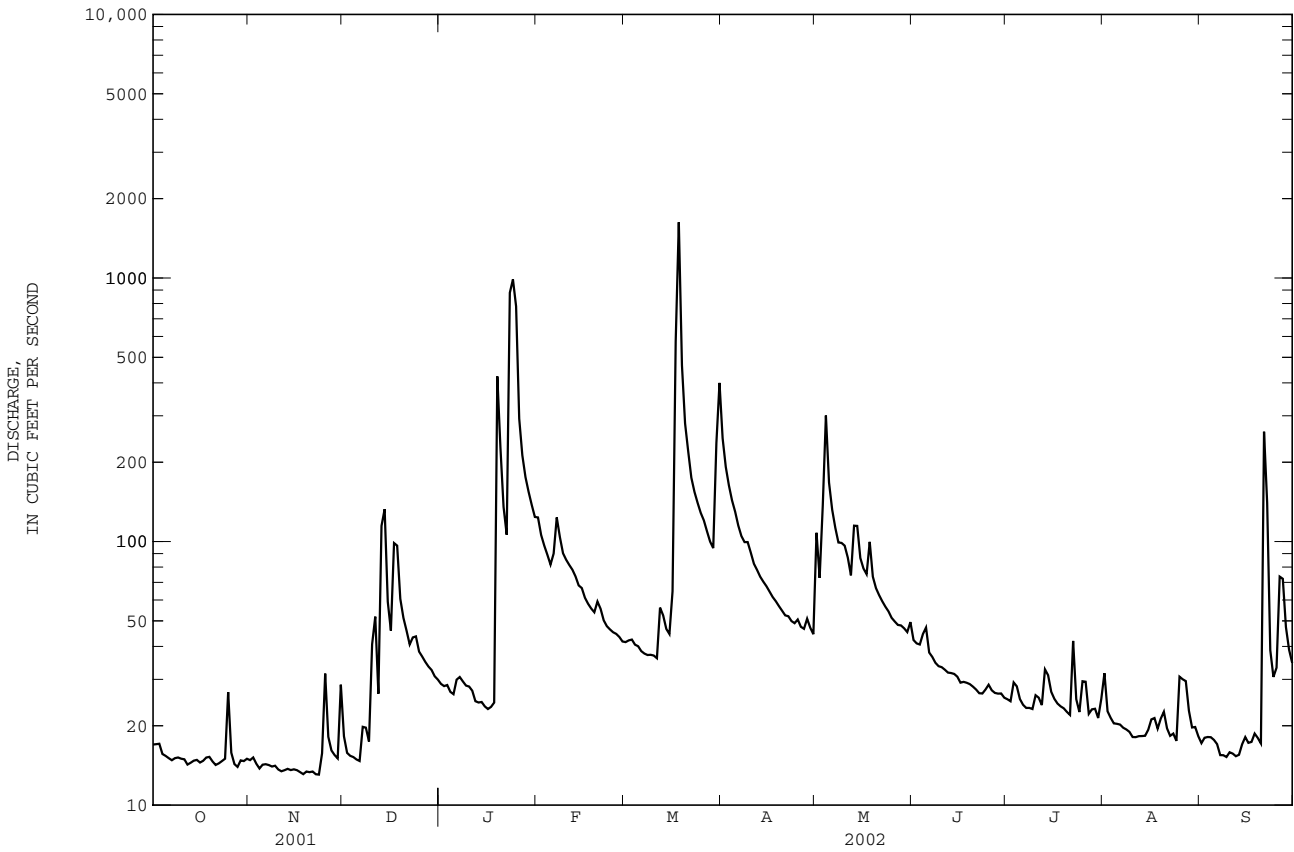
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	31.44	44.78	59.65	135.7	134.6	163.2	138.4	83.97	71.12	53.31	35.58	32.48
MAX	59.5	113	139	225	258	297	381	125	191	113	80.7	43.4
(WY)	1996	1996	1997	1996	1994	1994	1994	1999	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

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1994 - 2002

ANNUAL TOTAL	20823		23778		81.74		
ANNUAL MEAN	57.05		65.15		48.1		
HIGHEST ANNUAL MEAN					125 1994		
LOWEST ANNUAL MEAN					48.1 2000		
HIGHEST DAILY MEAN	1010	Jan 19	1630	Mar 18	2580	Apr 11	1994
LOWEST DAILY MEAN	13	Nov 11	13	Nov 11	13	Oct 28	1993
ANNUAL SEVEN-DAY MINIMUM	13	Nov 17	13	Nov 17	13	Nov 17	2001
MAXIMUM PEAK FLOW			3560		5790		Apr 11 1994
MAXIMUM PEAK STAGE			14.94		15.74		Apr 11 1994
INSTANTANEOUS LOW FLOW			a12		a12		Oct 28 1993
ANNUAL RUNOFF (CFSM)	1.36		1.55		1.94		
ANNUAL RUNOFF (INCHES)	18.40		21.01		26.38		
10 PERCENT EXCEEDS	115		123		154		
50 PERCENT EXCEEDS	34		31		48		
90 PERCENT EXCEEDS	15		15		20		

a Also occurred Oct. 29, 1993, Nov. 19, 21, 2001.



TENNESSEE RIVER BASIN

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 except for periods of estimated daily discharges, which are poor. Flow regulated since 1936 by many upstream reservoirs (see p. 262 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, 184,100 ft³/s, Jan. 24; maximum gage height, 29.41 ft, Jan. 26; minimum daily discharge, 4,140 ft³/s, Feb. 17; minimum gage height, 11.02 ft, Jun. 19.

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	25000	34700	19700	23200	52700	24900	30800	12100	e15000	19200	14500	17000
2	22800	30300	18100	28600	52600	12600	38300	33800	e20000	5760	25200	14300
3	29900	28800	19200	31500	52000	24700	31400	29500	e28000	12100	23300	17600
4	32600	20900	12600	31900	49000	29900	16600	31400	e19000	19600	22300	19500
5	37100	28500	16800	19800	36500	24600	24900	51100	25700	21000	20100	17300
6	32100	32300	15500	15600	35900	17600	15100	48000	29500	17900	19100	17800
7	32000	31100	16600	23300	39600	17300	18300	31700	e22000	11900	19000	19900
8	34500	22700	23800	21200	36100	15500	27300	34600	e11000	18600	16800	14700
9	28500	23700	36600	27000	17100	8630	34400	29500	e9000	24800	25600	18800
10	23500	24100	38900	13200	33600	9640	21600	27500	e21000	16900	15400	19900
11	18000	24500	39000	15600	32100	19800	24200	16800	e18000	17100	16300	25000
12	16800	24000	29400	9050	34000	11400	9800	24000	e16000	14900	18800	13600
13	13700	34400	42500	8960	37000	11700	7490	28200	e17000	8070	16800	17100
14	20400	39200	35900	20400	35300	11200	8160	25700	e22000	9370	19300	16200
15	18400	40900	52800	20300	29800	6720	15800	16400	e10000	29000	14800	12000
16	25800	35900	45900	21300	31300	8490	17700	27200	e5000	25000	20600	18000
17	23200	11500	40800	28100	4140	23100	18000	25100	e14000	15000	12400	17100
18	22400	10800	37800	27100	37000	89400	19100	20400	e7000	20700	12600	18700
19	14000	26500	42000	27300	14600	131000	15500	8820	e8000	22800	22600	20300
20	25900	35800	41900	30400	13900	145000	12000	10200	e20000	17200	25600	21500
21	13000	31500	38600	38700	12500	128000	19100	12000	e26000	5000	23800	22900
22	32700	30800	39700	53600	18000	73900	17600	8330	e9000	21000	27500	19100
23	28500	26300	32800	79200	12500	46600	12400	14900	e19000	18800	26400	26900
24	32800	12300	27400	119000	8730	40500	15200	20800	e23000	18900	20900	15100
25	33600	14700	21300	163000	8560	37200	11600	14800	e24000	10600	19400	33800
26	26100	26700	27800	158000	20400	39400	7290	24800	e9000	14700	22300	47500
27	33100	22300	31700	150000	20500	26000	8840	18400	e12000	16800	15800	41100
28	36000	27400	28800	143000	28000	7220	11100	e7100	19900	21500	20800	22700
29	44200	24600	26400	113000	---	23400	23400	e12000	17900	21200	21500	21300
30	33400	21500	27600	82500	---	29900	23000	e15000	11100	21600	22200	23300
31	25500	---	34100	75200	---	45900	---	e13000	---	23900	20900	---
TOTAL	835500	798700	962000	1619010	803430	1141200	555980	693150	508100	540900	622600	630000
MEAN	26950	26620	31030	52230	28690	36810	18530	22360	16940	17450	20080	21000
MAX	44200	40900	52800	163000	52700	145000	38300	51100	29500	29000	27500	47500
MIN	13000	10800	12600	8960	4140	6720	7290	7100	5000	5000	12400	12000

e Estimated

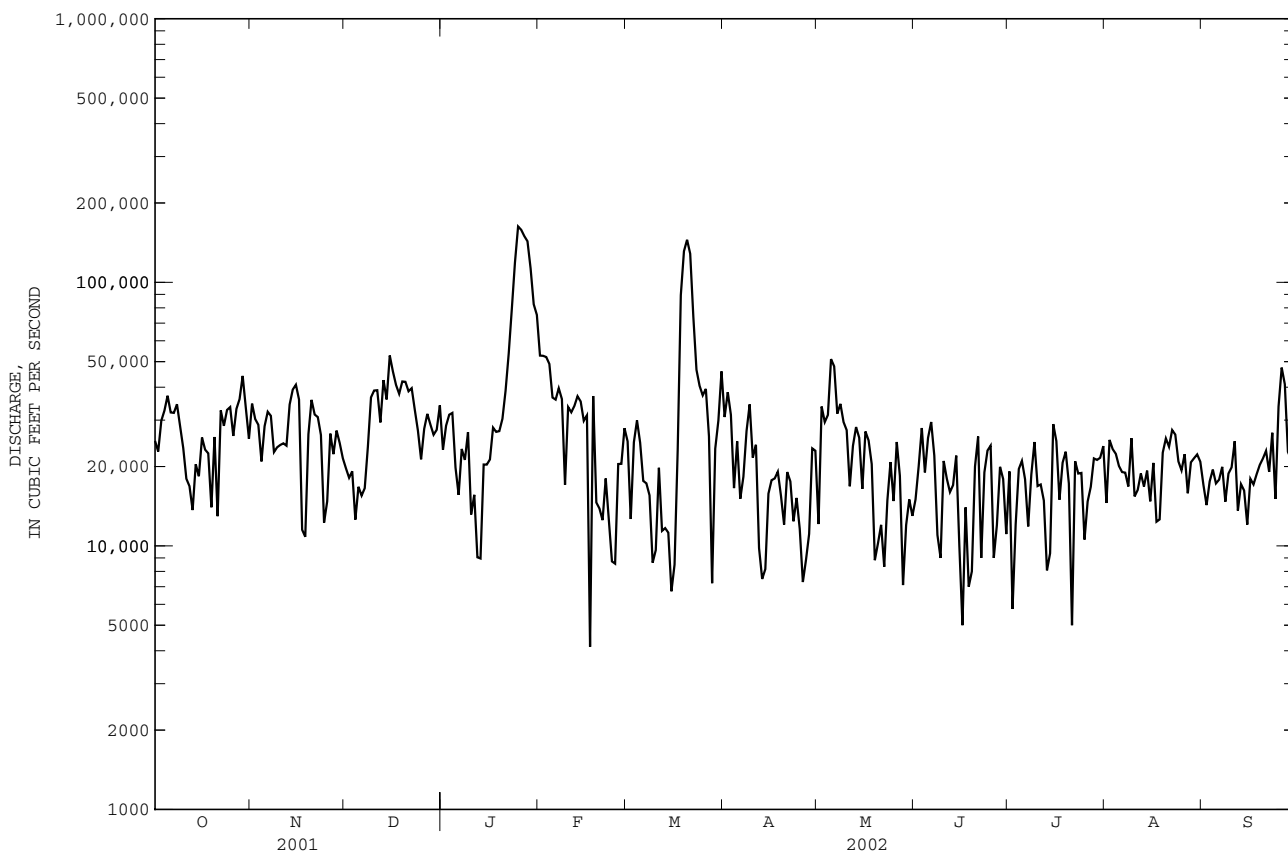
03568000 TENNESSEE RIVER AT CHATTANOOGA, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	29170	33860	43240	48550	49540	46380	28480	28160	29280	29380	31310	28450
MAX	63270	68330	94270	127900	132800	98850	107800	87890	65280	49670	41590	42140
(WY)	1990	1958	1973	1974	1957	1963	1994	1984	1989	1989	1994	1967
MIN	16690	16340	13660	17370	20520	14380	7503	7805	11310	11230	12740	14090
(WY)	1984	1988	1988	1986	2000	1988	1986	1988	1988	1988	1988	1968

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	*WATER YEARS 1954 - 2002
ANNUAL TOTAL	8855640	9710570	
ANNUAL MEAN	24260	26600	35440
HIGHEST ANNUAL MEAN			53260
LOWEST ANNUAL MEAN			15070
HIGHEST DAILY MEAN	75000	Feb 19	251000
LOWEST DAILY MEAN	7580	Apr 12	1200
ANNUAL SEVEN-DAY MINIMUM	8140	Apr 3	6790
MAXIMUM PEAK FLOW			267000
MAXIMUM PEAK STAGE		29.41	38.98
10 PERCENT EXCEEDS	39400	39500	57600
50 PERCENT EXCEEDS	21600	22000	31100
90 PERCENT EXCEEDS	10200	11300	15500

* Regulated period only.



TENNESSEE RIVER BASIN

03571000 SEQUATCHIE RIVER NEAR WHITWELL, TN

LOCATION.--Lat 35°12'22", long 85°29'48", Marion County, Hydrologic Unit 06020004, on right bank 250 ft upstream from county road bridge, 1.5 mi east of Whitwell, 3.0 mi upstream from bridge on State Highway 283, 4.5 mi downstream from Griffith Creek, and at mile 25.1.

DRAINAGE AREA.--402 mi², includes 18 mi² without surface drainagae.

PERIOD OF RECORD.--October 1920 to September 1994, October 1, 2001 to September 30, 2002. Prior to December 1920, monthly discharges only, published in WSP 1306.

REVISED RECORD.--WSP 603: 1922(M). WSP 758: 1929(M). WSP 1033: 1943(M). WSP 1386: 1921-22, 1923-25(M), 1927-28(M), 1930(M), 1933(M). WSP 1910: Drainagae area. WDR TN-76-1: 1973-75(P).

GAGE.--Data collection platform. Datum of gage is 632.73 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to Sept. 18, 1927, nonrecording gage at same datum 0.03 ft higher. Sept. 18, 1927, to Sept. 30, 1930, nonrecording gage at bridge 15 ft upstream at present datum.

REMARKS.--No estimated daily discharge. Records good. Prior to 1950, some diurnal fluctuation caused by small mills above station. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1867 reached a stage of about 19 ft from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 25	0930	15,300	15.29	Mar 31	1445	10,100	14.30
Mar 19	0330	*19,100	*15.91				

Minimum discharge, 37 ft³/s, Sept. 12.

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	67	56	597	301	1420	350	7410	380	286	120	86	62
2	64	56	404	280	1200	350	4850	726	269	116	82	60
3	61	54	336	265	1100	398	3030	1590	255	112	77	58
4	59	52	281	251	982	403	2020	3920	242	117	75	56
5	57	52	241	239	869	381	1580	4290	234	117	71	53
6	56	51	218	238	821	368	1320	2640	233	106	68	50
7	56	51	210	233	979	356	1130	1770	232	101	65	48
8	55	51	224	226	1190	342	991	1260	220	95	64	46
9	54	51	250	220	1230	336	896	986	210	89	62	45
10	52	51	265	210	1120	340	815	903	201	87	60	43
11	51	56	319	209	991	334	732	1110	189	90	59	40
12	51	50	361	208	878	478	673	898	181	102	58	38
13	51	49	509	207	792	909	630	817	174	142	56	38
14	58	50	3340	201	711	956	592	1180	168	179	55	39
15	74	48	2690	197	650	839	557	1150	163	173	56	39
16	89	50	1620	187	603	1020	520	876	158	174	58	39
17	83	48	1370	181	559	2410	495	710	154	146	58	39
18	71	49	1890	177	517	10600	537	736	145	136	58	45
19	67	49	1440	1290	478	17900	523	625	139	121	65	51
20	64	47	1060	3080	490	12100	473	545	141	109	68	50
21	63	46	800	2370	510	5410	440	485	144	101	63	59
22	64	46	645	1680	486	2710	414	441	136	94	63	96
23	61	50	595	4440	460	2120	389	407	131	97	60	136
24	58	60	608	13400	437	1780	376	379	128	121	58	94
25	64	1490	571	15100	415	1480	369	351	123	101	57	102
26	58	698	570	13000	403	1180	341	355	124	104	72	202
27	57	397	496	6800	385	1030	346	392	120	94	117	470
28	56	334	443	3000	370	894	374	405	122	92	87	525
29	59	251	400	2230	---	808	338	360	122	90	73	355
30	57	525	359	1870	---	4290	341	337	130	87	68	289
31	55	---	326	1590	---	9080	---	307	---	88	63	---
TOTAL	1892	4918	23438	73880	21046	81952	33502	31331	5274	3505	2082	3267
MEAN	61.03	163.9	756.1	2383	751.6	2644	1117	1011	175.8	113.1	67.16	108.9
MAX	89	1490	3340	15100	1420	17900	7410	4290	286	179	117	525
MIN	51	46	210	177	370	334	338	307	120	87	55	38
CFSM	0.16	0.43	1.97	6.21	1.96	6.88	2.91	2.63	0.46	0.29	0.17	0.28
IN.	0.18	0.48	2.27	7.16	2.04	7.94	3.25	3.04	0.51	0.34	0.20	0.32

03571000 SEQUATCHIE RIVER NEAR WHITWELL, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2002, BY WATER YEAR (WY)

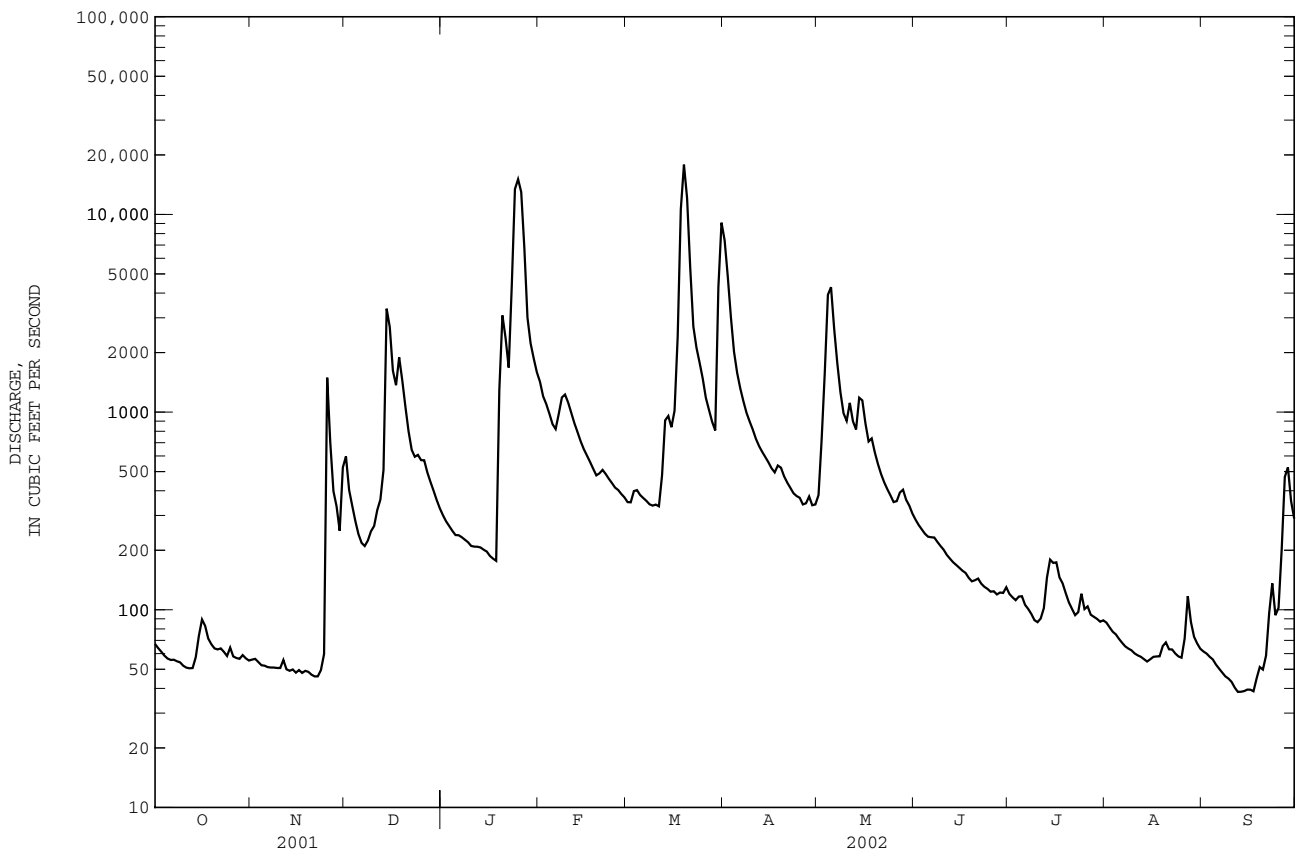
MEAN	182.6	464.9	1016	1371	1551	1644	1230	677.9	361.7	282.1	205.8	170.1
MAX	1626	3471	3935	3736	4126	3508	3449	2795	2381	1770	863	1152
(WY)	1990	1958	1991	1937	1994	1973	1994	1984	1928	1989	1926	1950
MIN	27.1	32.4	51.9	74.0	271	364	228	179	71.6	68.6	46.9	23.1
(WY)	1932	1932	1940	1981	1941	1988	1986	1941	1988	1986	1957	1925

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 1921 - 2002

ANNUAL TOTAL	286087	
ANNUAL MEAN	783.8	759.5
HIGHEST ANNUAL MEAN		1284
LOWEST ANNUAL MEAN		305
HIGHEST DAILY MEAN	17900	Mar 19
LOWEST DAILY MEAN	38	Sep 12
ANNUAL SEVEN-DAY MINIMUM	39	Sep 11
MAXIMUM PEAK FLOW	19100	Mar 19
MAXIMUM PEAK STAGE	15.91	Mar 19
INSTANTANEOUS LOW FLOW	37	Sep 12
ANNUAL RUNOFF (CFSM)	2.04	
ANNUAL RUNOFF (INCHES)	27.71	
10 PERCENT EXCEEDS	1530	1770
50 PERCENT EXCEEDS	233	338
90 PERCENT EXCEEDS	52	61



TENNESSEE RIVER BASIN

03578000 ELK RIVER NEAR PELHAM, TN

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

DRAINAGE AREA.--65.6 mi².

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

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s, Mar. 16, 1973, gage height, 14.08 ft; minimum, 1.0 ft³/s, Sept. 27, 28, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 14	1415	2,390	10.43	Mar 31	0100	2,280	10.34
Jan 23	1800	*5,180	*11.97	May 4	1430	2,150	10.23
Mar 18	1130	4,370	11.62				

Minimum daily discharge, 1.1 ft³/s, Sept. 13.

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	23	22	284	65	273	59	1440	265	28	11	2.50	2.8
2	21	21	193	59	297	57	650	254	24	11	2.4	2.8
3	19	20	143	55	232	71	376	965	20	12	2.3	2.7
4	18	19	112	49	196	77	271	1750	18	10	2.2	2.6
5	16	e18	89	45	162	64	215	1110	36	8.9	2.1	2.7
6	16	e16	74	49	160	60	175	447	38	9.0	2.1	3.1
7	16	e14	93	57	287	58	150	291	39	9.1	2.0	3.6
8	17	14	197	50	273	55	130	209	29	8.3	1.9	3.4
9	16	14	283	46	229	55	121	173	20	7.3	1.9	2.7
10	14	14	238	55	198	79	109	241	16	6.3	1.8	2.3
11	14	14	249	67	179	69	93	216	13	5.9	1.7	1.9
12	14	14	197	65	150	186	90	151	11	5.7	1.8	1.5
13	15	13	345	59	130	313	91	142	8.8	7.8	1.7	1.3
14	131	13	1710	55	117	251	84	177	7.9	7.4	1.7	1.4
15	189	13	1020	50	106	198	75	120	9.2	5.4	6.0	1.7
16	103	13	418	45	95	354	62	90	8.2	4.5	13	2.4
17	69	14	513	43	84	591	55	72	8.0	4.8	10	2.4
18	52	14	873	43	73	2890	51	101	6.2	4.7	4.4	2.3
19	44	14	457	647	67	1440	50	96	4.7	4.7	4.7	2.0
20	38	14	298	996	88	654	45	68	4.3	4.5	4.8	1.9
21	33	14	221	445	129	437	44	54	4.8	4.3	4.3	3.1
22	29	14	176	291	97	306	44	46	5.5	4.0	4.4	2.8
23	27	55	207	2630	86	238	53	39	6.9	4.0	5.3	2.6
24	26	164	306	2930	78	196	42	35	7.0	3.9	5.4	2.3
25	28	829	224	2260	71	162	58	30	7.5	3.7	5.0	2.1
26	35	423	178	1010	70	161	66	27	8.6	3.3	5.1	21
27	31	214	148	492	75	167	53	48	9.2	3.3	5.4	56
28	27	149	126	342	64	140	49	45	9.7	3.1	5.2	46
29	25	115	108	273	---	130	46	34	10	2.90	4.8	23
30	23	328	88	223	---	1230	40	30	11	2.8	2.2	15
31	23	---	74	189	---	1960	---	30	---	2.6	2.5	---
TOTAL	1152	2613	9642	13685	4066	12708	4828	7356	429.5	186.20	120.60	221.4
MEAN	37.16	87.10	311.0	441.5	145.2	409.9	160.9	237.3	14.32	6.006	3.890	7.380
MAX	189	829	1710	2930	297	2890	1440	1750	39	12	13	56
MIN	14	13	74	43	64	55	40	27	4.3	2.6	1.7	1.3
CFSM	0.57	1.33	4.74	6.73	2.21	6.25	2.45	3.62	0.22	0.09	0.06	0.11
IN.	0.65	1.48	5.47	7.76	2.31	7.21	2.74	4.17	0.24	0.11	0.07	0.13

e Estimated

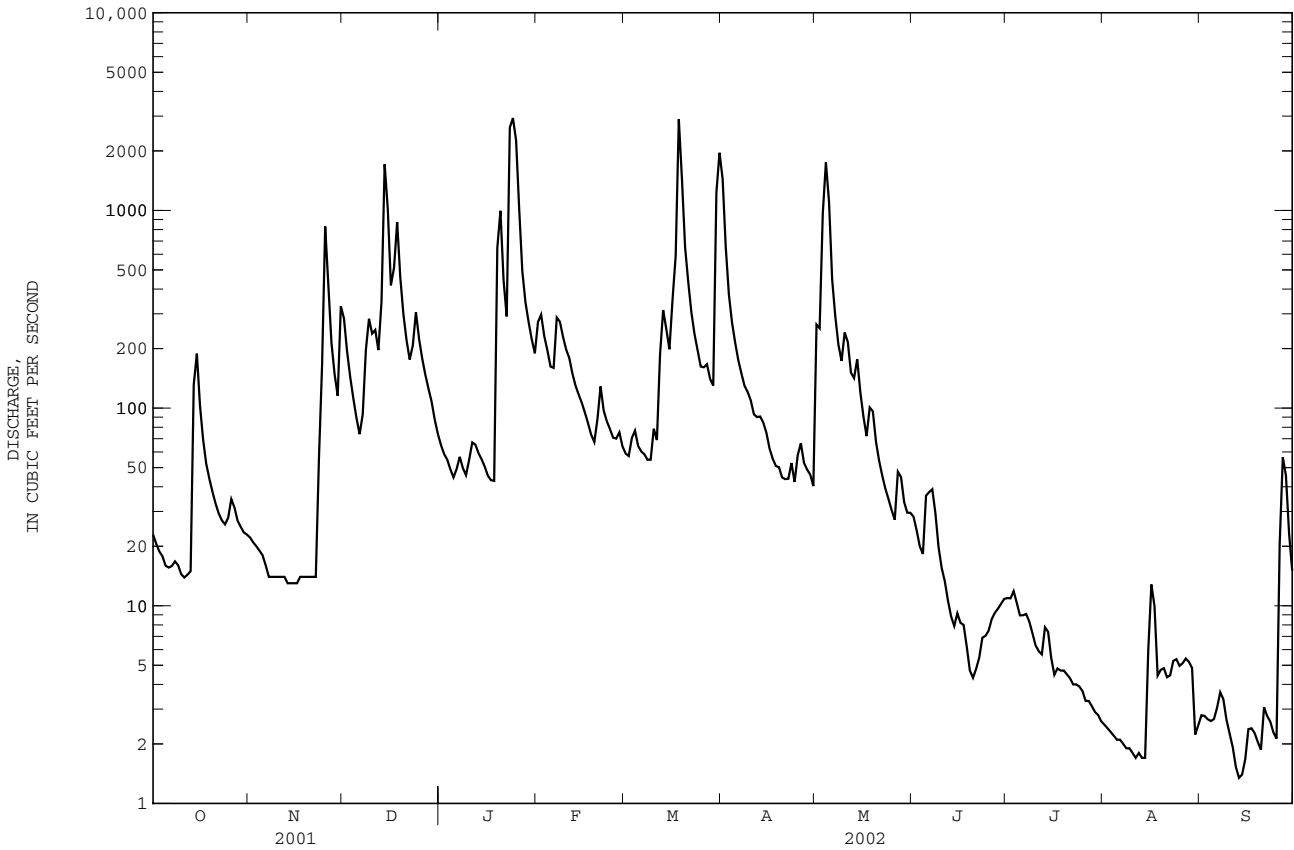
03578000 ELK RIVER NEAR PELHAM, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2002, BY WATER YEAR (WY)

MEAN	42.67	115.6	210.3	247.9	262.4	283.9	221.6	140.7	43.29	34.49	29.18	25.37
MAX	341	562	475	679	601	707	522	362	178	118	168	174
(WY)	1976	1958	1973	1974	1956	1973	1977	1984	1961	1972	2001	1979
MIN	1.92	2.24	18.2	31.5	67.3	103	50.2	18.8	7.24	3.66	2.39	1.69
(WY)	1979	1957	1964	1981	1968	1985	1986	1987	1982	1954	1980	1954

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1952 - 2002	
ANNUAL TOTAL	54613.0		57007.70		138.0	
ANNUAL MEAN	149.6		156.2		61.3	
HIGHEST ANNUAL MEAN					235	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	1890	Feb 17	2930	Jan 24	8800	Mar 16 1973
LOWEST DAILY MEAN	6.9	Jul 23	1.3	Sep 13	1.0	Sep 27 1954
ANNUAL SEVEN-DAY MINIMUM	7.6	Jul 18	1.8	Aug 8	1.2	Sep 23 1954
MAXIMUM PEAK FLOW			5180		15800	
MAXIMUM PEAK STAGE			11.97		a14.08	
INSTANTANEOUS LOW FLOW			1.1		b1.0	
ANNUAL RUNOFF (CFSM)	2.28		2.38		2.10	
ANNUAL RUNOFF (INCHES)	30.97		32.33		28.59	
10 PERCENT EXCEEDS	367		306		305	
50 PERCENT EXCEEDS	52		45		53	
90 PERCENT EXCEEDS	13		2.8		4.1	

a Previous datum.
 b Also occurred Sept. 28.



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

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

DRAINAGE AREA.--9.51 mi².

PERIOD OF RECORD.--February 2002 to September 2002. Occasional low-flow measurements, water year 1991.

GAGE.--Data logger.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 642 ft³/s, Mar. 18, gage height, 6.03 ft; minimum discharge, 6.9 ft³/s, on several days, gage height, 2.83 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	e15	12	75	20	11	9.3	8.2	7.4
2	---	---	---	---	e15	12	36	20	11	9.3	8.2	7.4
3	---	---	---	---	e14	12	26	61	11	9.4	8.1	7.3
4	---	---	---	---	e14	12	21	183	10	9.4	7.9	7.2
5	---	---	---	---	14	11	18	40	10	9.2	7.7	7.2
6	---	---	---	---	14	11	16	25	10	9.1	7.8	7.2
7	---	---	---	---	17	11	15	20	10	9.6	7.7	7.1
8	---	---	---	---	17	11	15	17	10	9.4	7.7	7.2
9	---	---	---	---	15	11	14	16	9.9	9.3	7.6	7.1
10	---	---	---	---	15	11	14	16	9.9	9.2	7.7	7.2
11	---	---	---	---	14	11	13	15	9.9	9.3	7.6	7.3
12	---	---	---	---	14	12	13	14	9.8	9.2	7.6	7.4
13	---	---	---	---	13	11	12	14	9.9	9.3	7.7	7.4
14	---	---	---	---	13	12	12	14	10	9.1	7.8	7.5
15	---	---	---	---	14	12	12	13	10	9.0	8.8	7.7
16	---	---	---	---	14	13	12	13	10	9.0	8.0	7.8
17	---	---	---	---	13	28	11	13	10	8.9	7.9	7.8
18	---	---	---	---	13	310	11	12	9.9	9.0	7.8	7.9
19	---	---	---	---	13	57	11	12	9.8	9.0	7.9	7.8
20	---	---	---	---	13	35	11	12	9.7	8.9	7.7	8.4
21	---	---	---	---	13	27	11	12	9.6	8.9	7.6	8.1
22	---	---	---	---	13	21	10	12	9.5	8.8	7.4	8.2
23	---	---	---	---	12	18	10	11	9.7	8.8	7.4	7.9
24	---	---	---	---	12	16	10	11	9.7	8.5	7.5	7.8
25	---	---	---	---	12	15	9.8	11	9.8	8.4	7.4	8.7
26	---	---	---	---	12	17	9.7	11	9.8	8.4	7.3	9.7
27	---	---	---	---	12	17	9.6	11	9.7	8.3	7.3	10
28	---	---	---	---	12	15	9.6	11	9.7	8.3	8.2	8.5
29	---	---	---	---	---	15	9.5	11	9.5	8.2	7.6	8.2
30	---	---	---	---	---	89	9.6	11	9.5	8.2	7.4	8.1
31	---	---	---	---	---	221	---	11	---	8.3	7.4	---
TOTAL	---	---	---	---	382	1086	466.8	673	298.3	277.0	239.9	234.5
MEAN	---	---	---	---	13.64	35.03	15.56	21.71	9.943	8.935	7.739	7.817
MAX	---	---	---	---	17	310	75	183	11	9.6	8.8	10
MIN	---	---	---	---	12	11	9.5	11	9.5	8.2	7.3	7.1
CFSM	---	---	---	---	1.43	3.68	1.64	2.28	1.05	0.94	0.81	0.82
IN.	---	---	---	---	1.49	4.25	1.83	2.63	1.17	1.08	0.94	0.92

e Estimated

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03584020 RICHLAND CREEK AT HWY 64 NEAR PULASKI, TN

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

DRAINAGE AREA.--366 mi².

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,630 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 14	1200	5,620	16.74	Mar 18	1730	14,000	22.21
Nov 30	1030	10,600	20.55	Mar 31	2215	13,800	22.13
Dec 14	1400	4,730	15.60	May 4	1900	5,580	16.85
Jan 23	2100	*40,900	*27.86				

Minimum discharge, 27 ft³/s, Sept. 13, 14.

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	103	159	3280	529	e1240	359	9640	589	169	325	72	49
2	98	153	1750	483	1180	352	3590	522	150	195	69	46
3	95	145	1270	445	1030	351	1690	1680	138	136	64	43
4	91	136	1000	400	935	322	1700	4510	129	111	56	40
5	89	131	825	367	802	301	1330	3320	135	94	52	37
6	92	126	705	421	836	290	1080	1850	143	85	49	35
7	91	122	715	428	1070	283	e938	1300	130	75	46	35
8	88	119	1380	370	1070	276	e845	950	122	67	43	33
9	85	116	2250	343	1040	292	e742	746	113	61	41	31
10	83	113	1750	329	1000	304	629	639	105	73	38	31
11	82	112	1650	319	913	277	548	575	99	461	37	30
12	155	110	1450	298	819	1310	545	464	95	150	37	28
13	473	108	2470	286	755	2270	489	516	130	179	36	28
14	4990	106	4290	275	674	1680	449	546	169	266	39	28
15	2460	104	3100	259	620	1280	418	415	140	189	77	29
16	1340	103	2030	236	576	1150	392	356	113	176	92	44
17	963	102	2120	222	524	6960	e366	322	105	132	148	47
18	760	100	2240	238	471	11900	e340	347	97	115	95	42
19	632	99	1750	1520	437	8020	311	303	91	114	78	53
20	533	100	1370	2400	629	3560	295	267	85	108	67	51
21	447	99	1120	1680	677	2650	284	246	78	95	66	62
22	373	97	958	1270	585	1990	275	230	73	87	62	71
23	325	98	1580	20100	535	1620	256	219	69	80	56	129
24	292	122	1660	24100	495	1360	245	207	68	178	60	76
25	335	186	1370	14700	460	1130	295	197	73	239	58	65
26	327	163	1160	5800	459	e1440	265	189	148	139	53	465
27	246	417	996	2940	419	1460	244	182	183	109	50	1570
28	208	795	872	2130	381	1160	242	179	161	92	49	730
29	190	2490	765	1670	---	1030	465	170	114	84	99	365
30	177	9440	655	1360	---	2020	354	164	105	77	66	258
31	167	---	582	1120	---	8950	---	205	---	76	54	---
TOTAL	16390	16271	49113	87038	20632	66347	29262	22405	3530	4368	1909	4551
MEAN	528.7	542.4	1584	2808	736.9	2140	975.4	722.7	117.7	140.9	61.58	151.7
MAX	4990	9440	4290	24100	1240	11900	9640	4510	183	461	148	1570
MIN	82	97	582	222	381	276	242	164	68	61	36	28
CFSM	1.44	1.48	4.33	7.67	2.01	5.85	2.67	1.97	0.32	0.38	0.17	0.41
IN.	1.67	1.65	4.99	8.85	2.10	6.74	2.97	2.28	0.36	0.44	0.19	0.46

e Estimated

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

MEAN	528.7	542.4	1584	2808	1714	1724	940.7	472.6	255.0	181.8	251.9	170.9
MAX	529	542	1584	2808	2690	2140	975	723	392	223	442	190
(WY)	2002	2002	2002	2002	2001	2002	2002	2002	2001	2001	2001	2001
MIN	529	542	1584	2808	737	1307	906	222	118	141	61.6	152
(WY)	2002	2002	2002	2002	2002	2001	2001	2001	2002	2002	2002	2002

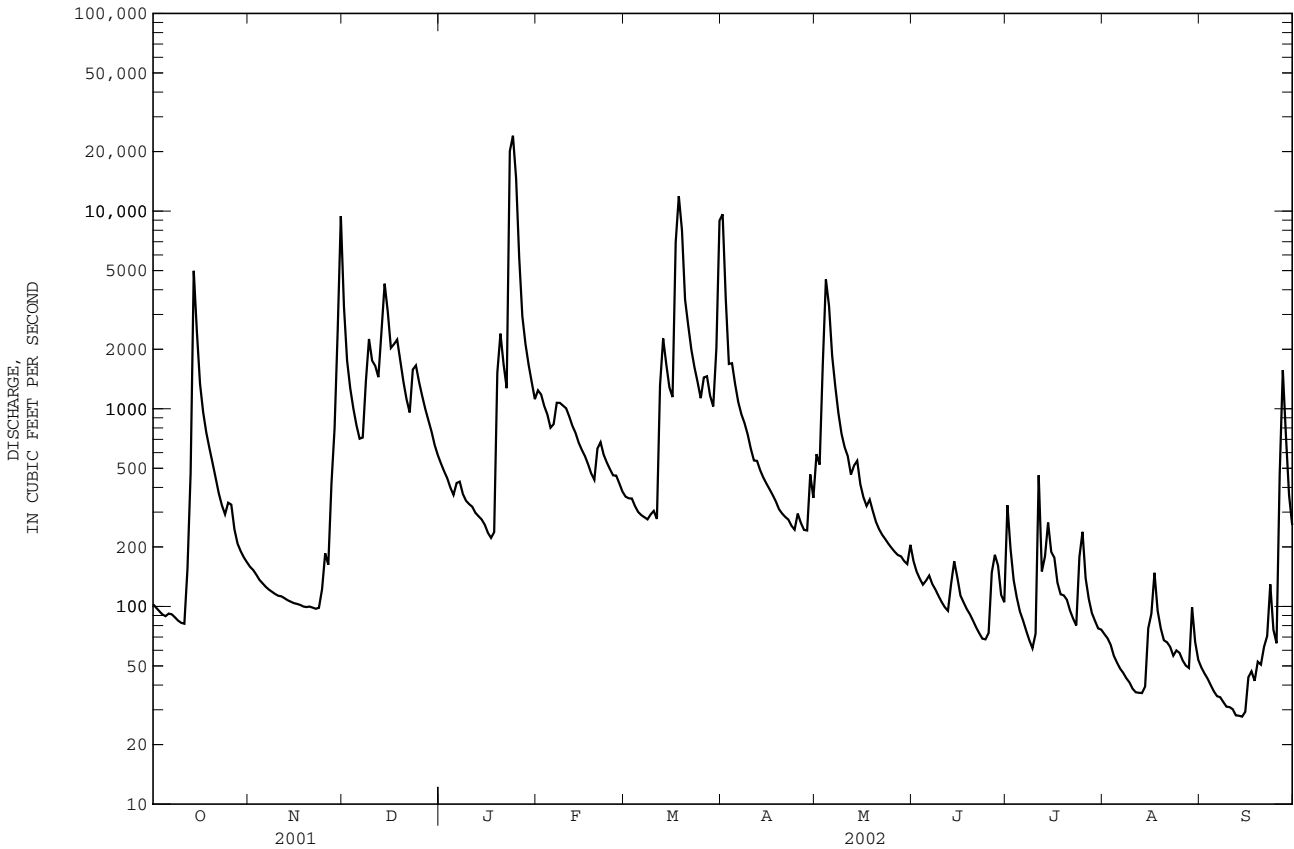
SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	321816		
ANNUAL MEAN	881.7		881.7
HIGHEST ANNUAL MEAN			882 2002
LOWEST ANNUAL MEAN			882 2002
HIGHEST DAILY MEAN	24100	Jan 24	24100 Jan 24 2002
LOWEST DAILY MEAN	28	Sep 12	28 Sep 12 2002
ANNUAL SEVEN-DAY MINIMUM	29	Sep 9	29 Sep 9 2002
MAXIMUM PEAK FLOW	40900	Jan 23	40900 Jan 23 2002
MAXIMUM PEAK STAGE	27.86	Jan 23	27.86 Jan 23 2002
INSTANTANEOUS LOW FLOW	a27	Sep 13	a27 Sep 13 2002
ANNUAL RUNOFF (CFSM)	2.41		2.41
ANNUAL RUNOFF (INCHES)	32.71		32.73
10 PERCENT EXCEEDS	1720		1720
50 PERCENT EXCEEDS	276		276
90 PERCENT EXCEEDS	57		57

a Also occurred Sept. 14.



TENNESSEE RIVER BASIN

03588500 SHOAL CREEK AT IRON CITY, TN

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

DRAINAGE AREA.--348 mi².

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 14	1030	11,000	12.95	Jan 24	1830	23,900	18.11
Nov 30	0415	21,100	17.19	Mar 18	1545	11,000	12.96
Dec 14	1115	6,610	10.11	Mar 31	1945	14,200	14.50
Jan 23	2100	*47,400	*23.21				

Minimum discharge, 122 ft³/s, Sept. 13, 14.

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	190	212	2590	527	964	516	5120	480	287	240	197	152
2	182	208	1530	492	873	503	2250	464	263	232	184	148
3	184	204	1110	475	814	491	1520	622	254	236	173	145
4	183	216	893	453	779	457	1140	2620	248	210	167	142
5	184	180	761	438	717	439	932	1610	308	197	161	138
6	208	184	674	483	756	430	806	1040	268	189	157	134
7	196	210	699	470	878	422	724	795	252	182	153	132
8	181	209	1610	429	880	416	677	650	244	178	149	132
9	178	204	2370	415	846	446	680	566	237	176	148	131
10	174	201	1540	409	824	460	598	551	232	187	148	131
11	181	199	1240	400	775	424	556	537	226	230	149	128
12	811	198	1050	395	723	1720	557	467	225	240	147	126
13	1080	194	3020	408	687	1720	524	458	229	473	144	124
14	7480	192	5430	368	643	1200	504	477	267	430	151	126
15	2420	192	2800	357	617	961	492	410	240	295	178	129
16	1330	190	1780	343	594	1190	467	382	224	269	198	133
17	891	189	1880	342	564	4470	448	374	224	237	259	169
18	638	187	1940	358	536	7420	436	414	217	217	219	158
19	523	187	1460	1230	519	3610	424	366	211	232	197	157
20	448	187	1130	1610	873	2220	412	343	209	222	182	149
21	393	184	943	1130	893	1770	402	328	204	213	213	196
22	352	183	835	871	764	1310	403	317	198	202	181	186
23	310	185	1260	19700	699	1100	381	311	196	202	167	162
24	300	217	1270	19800	652	964	371	302	207	210	187	149
25	366	318	1000	10400	613	858	391	297	208	236	215	146
26	311	237	898	3130	616	1000	363	290	251	224	181	488
27	277	1900	808	1990	567	960	358	294	335	198	169	2040
28	253	2200	741	1480	535	828	361	281	245	186	162	714
29	231	4970	647	1220	---	763	494	277	220	186	162	372
30	212	12400	588	1050	---	1200	396	274	214	204	160	292
31	205	---	548	921	---	8280	---	313	---	220	157	---
TOTAL	20872	26737	45045	72094	20201	48548	23187	16910	7143	7153	5415	7529
MEAN	673.3	891.2	1453	2326	721.5	1566	772.9	545.5	238.1	230.7	174.7	251.0
MAX	7480	12400	5430	19800	964	8280	5120	2620	335	473	259	2040
MIN	174	180	548	342	519	416	358	274	196	176	144	124
CFSM	1.93	2.56	4.18	6.68	2.07	4.50	2.22	1.57	0.68	0.66	0.50	0.72
IN.	2.23	2.86	4.82	7.71	2.16	5.19	2.48	1.81	0.76	0.76	0.58	0.80

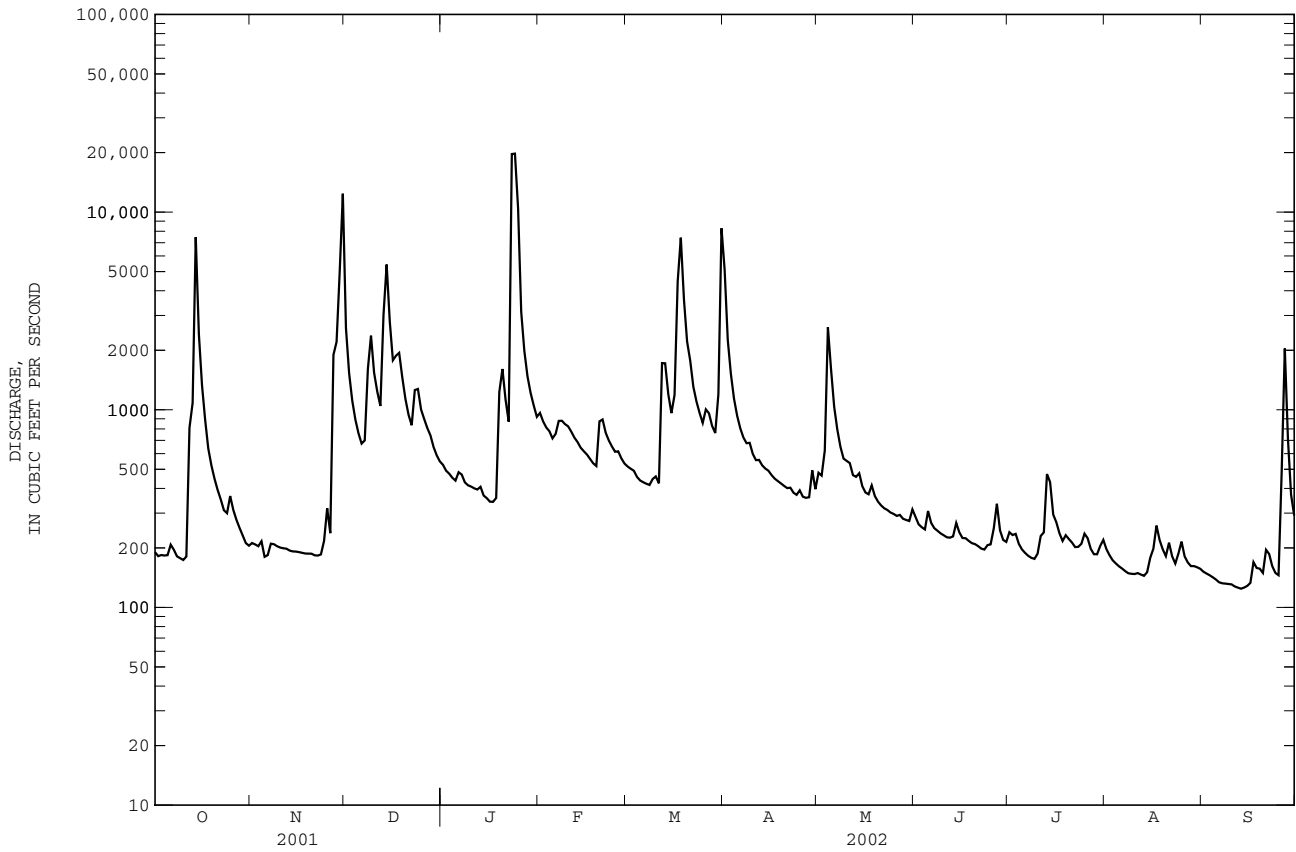
03588500 SHOAL CREEK AT IRON CITY, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2002, BY WATER YEAR (WY)

MEAN	234.3	439.8	773.5	1052	1215	1312	988.1	725.0	378.4	297.2	222.4	223.5
MAX	1290	1894	2968	3604	3562	3626	2227	3425	1876	1131	615	1296
(WY)	1933	1978	1927	1974	1948	1975	1964	1991	1928	1932	1926	1979
MIN	69.4	123	165	170	273	373	222	169	118	105	94.8	64.8
(WY)	1932	1955	1964	1981	1941	1966	1986	1936	1988	1943	1988	1925

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1925 - 2002	
ANNUAL TOTAL	269241		300834		653.1	
ANNUAL MEAN	737.6		824.2		281	
HIGHEST ANNUAL MEAN					1178 1973	
LOWEST ANNUAL MEAN					281 1981	
HIGHEST DAILY MEAN	13500	Feb 17	19800	Jan 24	44000	Feb 13 1948
LOWEST DAILY MEAN	168	Aug 26	124	Sep 13	41	Sep 22 1925
ANNUAL SEVEN-DAY MINIMUM	186	Oct 5	128	Sep 9	55	Sep 3 1925
MAXIMUM PEAK FLOW			47400	Jan 23	a132000	Mar 21 1955
MAXIMUM PEAK STAGE			23.21	Jan 23	b27.25	Mar 21 1955
INSTANTANEOUS LOW FLOW			c122	Sep 13	38	Aug 31 1943
ANNUAL RUNOFF (CFSM)	2.12		2.37		1.88	
ANNUAL RUNOFF (INCHES)	28.78		32.16		25.50	
10 PERCENT EXCEEDS	1370		1520		1300	
50 PERCENT EXCEEDS	366		366		315	
90 PERCENT EXCEEDS	197		165		130	

- a From rating curve extended above 50,000 ft³/s on basis of slope-area measurement.
- b Site and datum then in use (see REMARKS).
- c Also occurred Sept. 14.



TENNESSEE RIVER BASIN

03593500 TENNESSEE RIVER AT SAVANNAH, TN

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

DRAINAGE AREA.--33,140 mi² approximately.

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

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

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

REMARKS.--Records good, except for estimated discharges, which are fair. Slight regulation since 1924 by Wilson Lake and increasing regulation since 1936 as other reservoirs have been built above station ((see p. 262) and Water Resources Data for adjoining states). Periodic observations of specific conductance and water temperature are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1867, 101.2 ft, Mar. 21, 1897, datum then in use, from floodmarks, discharge, 450,000 ft³/s, from rating curve extended above 320,000 ft³/s. Flood of Jan. 2, 1927, reached a stage of 92.7 ft datum then in use, discharge, 349,000 ft³/s. Minimum stage since 1905, 38.8 ft datum then in use, Sept. 8, 1925.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 299,000 ft³/s, Jan. 28; maximum gage height, 34.85 ft, Jan. 29; minimum daily discharge, 2,190 ft³/s, June 15, minimum gage height, 4.27 ft, Jan. 13.

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	31700	34700	77200	16600	130000	28000	157000	13400	6860	14800	36600	12900
2	35900	36800	44600	41000	91100	13600	164000	19700	10700	25000	37800	16000
3	35600	42400	48100	46000	91600	33200	149000	43900	38500	28500	26900	20100
4	34000	42800	53700	55700	89000	42900	121000	124000	42200	6820	23100	32200
5	31600	35900	40800	29800	87900	40900	90800	144000	45100	13000	32700	16100
6	33000	38200	38600	10900	87400	35600	49900	145000	25300	9260	17100	e15100
7	14100	38000	38900	38000	87600	9580	53500	126000	2310	5850	26700	e14500
8	34300	36000	41800	39500	87400	10500	52900	111000	4040	18400	15600	e15000
9	33600	33100	61800	15300	55200	13400	43500	95700	2230	37800	15800	e27100
10	28200	31200	64900	15600	46400	12700	42700	74800	34200	28000	16000	e48400
11	26300	34100	50800	11500	43200	43000	35200	25100	19300	21000	15900	e41400
12	11300	36800	51900	11400	58900	19600	8770	34600	30800	15300	31000	e14500
13	20600	31300	71000	13300	55200	31100	6670	55600	28700	6290	30700	13600
14	33900	44700	115000	e25100	62500	9960	8070	37300	29300	14800	18400	16100
15	60500	35500	147000	e36600	52800	10600	15200	47700	2190	32600	18500	16300
16	45300	32700	166000	e31600	21500	11800	27800	57500	8610	32200	23600	13900
17	41700	10900	143000	27300	31000	38300	33400	55000	7900	23300	15000	13900
18	40200	11600	109000	13100	48100	103000	34200	32000	13800	37600	23900	19900
19	40200	26800	94400	18200	46300	156000	34300	8520	21800	8490	42400	40500
20	36900	40900	105000	55800	12200	175000	19900	18700	29800	13000	48900	32300
21	42600	53400	97500	73400	22800	180000	16900	34300	15100	8040	31800	39600
22	40900	23400	86400	100000	10600	181000	36400	13900	8610	33100	34300	14100
23	37500	10700	63500	152000	15400	170000	9380	11500	4510	20700	35800	48600
24	37200	9370	59800	248000	14500	162000	16000	12000	11600	33700	15900	23700
25	30800	9580	65900	286000	15100	146000	15300	13800	36600	28300	16900	64900
26	34500	28400	78900	291000	35000	102000	9890	12000	31700	31400	25700	90200
27	39200	33600	77400	294000	54100	71500	8630	8700	28100	15900	30100	101000
28	34000	42200	60300	294000	41400	26800	8950	21400	7830	15600	19000	58500
29	42400	62500	47000	289000	---	36400	34800	30100	2330	31300	33100	17000
30	33000	119000	48800	274000	---	26500	5450	21500	7080	39500	26900	33400
31	33900	---	64300	228000	---	92000	---	26500	---	25500	15600	---
TOTAL	1074900	1066550	2313300	3081700	1494200	2032940	1309510	1475220	557100	675050	801700	930800
MEAN	34670	35550	74620	99410	53360	65580	43650	47590	18570	21780	25860	31030
MAX	60500	119000	166000	294000	130000	181000	164000	145000	45100	39500	48900	101000
MIN	11300	9370	38600	10900	10600	9580	5450	8520	2190	5850	15000	12900

e Estimated

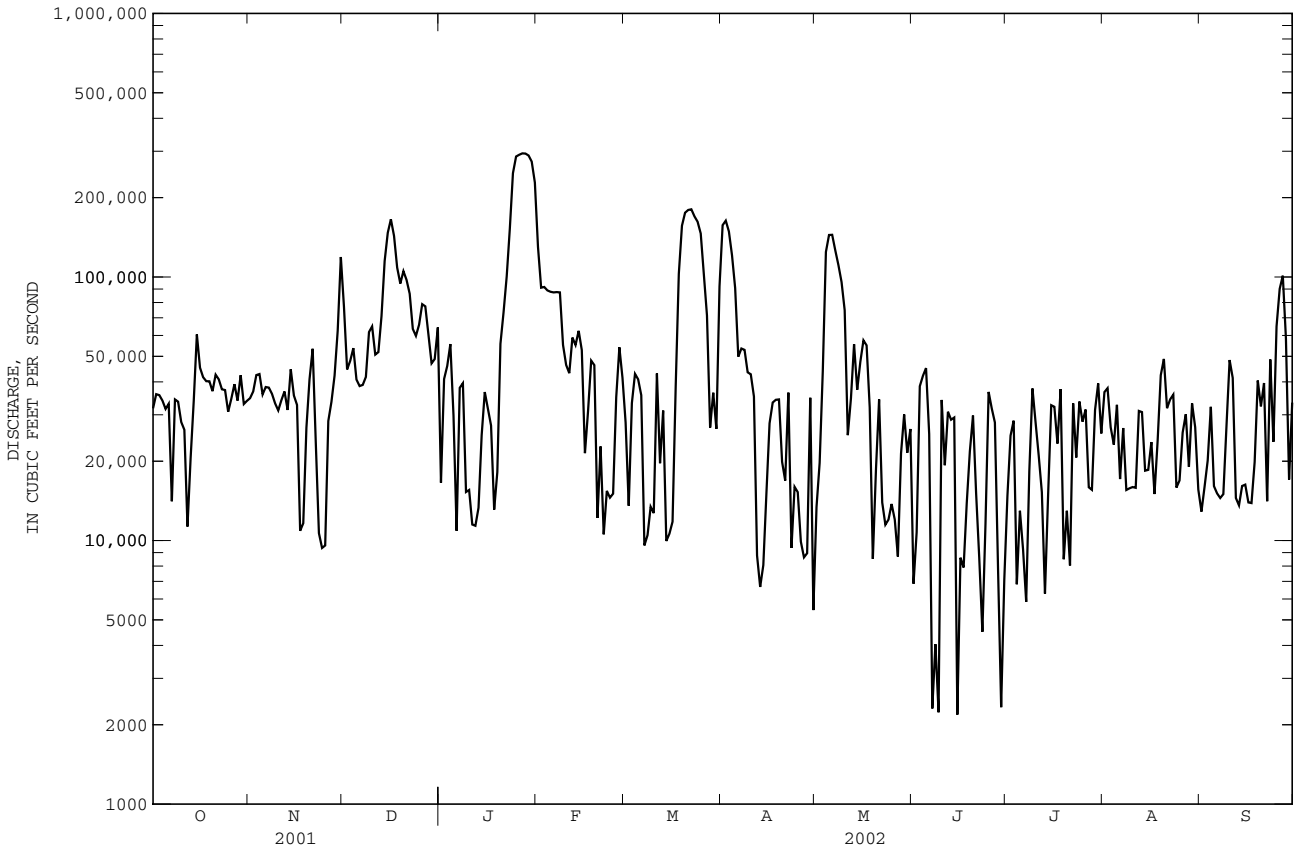
03593500 TENNESSEE RIVER AT SAVANNAH, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2002, BY WATER YEAR (WY)

MEAN	36220	46730	71370	88430	92320	85260	55290	47350	40160	38050	37260	34550
MAX	97010	147000	160100	223100	228100	185600	172300	140400	112900	84810	64740	71700
(WY)	1990	1958	1992	1974	1957	1973	1994	1984	1997	1989	1967	1950
MIN	18820	20510	26850	23710	30610	19840	11150	8977	10490	12910	15910	15800
(WY)	1955	1954	1981	1986	2000	1988	1986	1988	1988	1988	1988	1968

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		*WATER YEARS 1946 - 2002	
ANNUAL TOTAL	16030450		16812970			
ANNUAL MEAN	43920		46060		55940	
HIGHEST ANNUAL MEAN					86550 1973	
LOWEST ANNUAL MEAN					23090 1988	
HIGHEST DAILY MEAN	170000	Feb 21	294000	Jan 27	495000	Mar 18 1973
LOWEST DAILY MEAN	7360	Apr 26	2190	Jun 15	60	Apr 23 1966
ANNUAL SEVEN-DAY MINIMUM	10400	May 20	13200	Jun 28	5890	May 20 1986
MAXIMUM PEAK FLOW					507000 Mar 18 1973	
MAXIMUM PEAK STAGE					a96.11 Mar 20 1973	
10 PERCENT EXCEEDS	79400		100000		107000	
50 PERCENT EXCEEDS	36400		33100		42200	
90 PERCENT EXCEEDS	10700		10700		21200	

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



03595100 LITTLE DUCK RIVER SOUTHEAST OF MANCHESTER, TN

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

DRAINAGE AREA.--13.0 mi².

PERIOD OF RECORD.--February 2002 to September 2002. Occasional low-flow measurements, water year 1953-54, 1956-57, 1962, 1964-65, 1970.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 935 ft³/s, Mar. 18, gage height, 9.05 ft; minimum discharge, 0.50 ft³/s, Sept. 9, gage height, 3.15 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	e8.7	4.8	232	75	5.0	2.0	1.7	1.2
2	---	---	---	---	e8.5	5.1	131	77	4.1	2.1	1.6	1.2
3	---	---	---	---	e8.3	6.1	82	155	3.6	1.8	1.4	1.1
4	---	---	---	---	e8.0	5.0	38	342	4.0	1.9	1.4	1.1
5	---	---	---	---	e7.8	4.0	24	142	3.7	1.8	1.3	1.0
6	---	---	---	---	e8.0	3.8	18	71	3.8	1.8	1.4	1.0
7	---	---	---	---	e12	3.5	13	32	3.2	1.8	1.3	0.94
8	---	---	---	---	e9.0	3.2	10	21	2.9	1.8	1.3	0.99
9	---	---	---	---	e8.5	4.2	9.2	16	2.8	1.8	1.2	0.90
10	---	---	---	---	e8.0	4.4	8.0	15	2.7	1.8	1.3	0.91
11	---	---	---	---	e9.0	4.2	7.4	15	3.9	1.8	1.2	0.83
12	---	---	---	---	e13	21	7.0	11	2.6	1.8	1.2	0.88
13	---	---	---	---	24	36	6.9	11	3.4	24	1.1	0.84
14	---	---	---	---	41	19	6.7	11	2.9	5.2	1.0	1.5
15	---	---	---	---	16	12	6.2	8.3	2.8	2.2	1.1	2.4
16	---	---	---	---	7.2	56	5.7	6.7	2.8	2.1	2.9	1.3
17	---	---	---	---	5.9	323	5.3	8.3	2.7	1.9	1.3	1.1
18	---	---	---	---	4.9	642	4.8	16	2.6	1.9	3.3	3.6
19	---	---	---	---	4.7	215	4.5	9.7	2.5	2.0	2.3	1.4
20	---	---	---	---	18	132	4.3	6.6	2.5	1.8	1.9	6.5
21	---	---	---	---	23	89	4.0	5.4	2.4	7.1	1.7	3.9
22	---	---	---	---	14	44	5.6	4.7	2.5	2.1	1.6	6.1
23	---	---	---	---	8.6	29	5.4	4.2	2.5	15	1.8	2.6
24	---	---	---	---	6.7	22	5.7	3.8	2.3	4.9	1.6	1.8
25	---	---	---	---	5.3	18	11	3.8	2.4	2.2	1.5	6.1
26	---	---	---	---	5.8	42	9.9	4.6	3.6	2.0	3.4	47
27	---	---	---	---	5.2	42	7.0	3.7	2.4	1.8	1.5	39
28	---	---	---	---	5.0	28	5.8	3.5	2.2	1.8	1.4	7.0
29	---	---	---	---	---	55	4.9	5.0	2.2	1.7	1.3	2.9
30	---	---	---	---	---	439	4.3	8.1	2.1	1.7	1.2	2.3
31	---	---	---	---	---	402	---	6.2	---	1.6	1.2	---
TOTAL	---	---	---	---	304.1	2714.3	687.6	1102.6	89.1	105.2	49.4	149.39
MEAN	---	---	---	---	10.86	87.56	22.92	35.57	2.970	3.394	1.594	4.980
MAX	---	---	---	---	41	642	232	342	5.0	24	3.4	47
MIN	---	---	---	---	4.7	3.2	4.0	3.5	2.1	1.6	1.0	0.83
CFSM	---	---	---	---	0.84	6.74	1.76	2.74	0.23	0.26	0.12	0.38
IN.	---	---	---	---	0.87	7.77	1.97	3.16	0.25	0.30	0.14	0.43

e Estimated

03596100 CRUMPTON CREEK AT RUTLEDGE FALLS, TN

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

DRAINAGE AREA.--28.1 mi².

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,720 ft³/s, Mar. 31, gage height, 6.72 ft; minimum discharge, 4.3 ft³/s, July 6, 7, gage height, 3.71 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	e10	324	e9.5	12	6.6	6.0	6.0
2	---	---	---	---	---	e12	134	e90	12	5.6	6.0	6.0
3	---	---	---	---	---	e14	84	e200	12	5.6	5.8	6.0
4	---	---	---	---	---	e13	65	e470	11	5.6	5.6	6.1
5	---	---	---	---	---	e12	53	e180	11	5.6	5.6	6.1
6	---	---	---	---	---	e9.0	46	e80	11	5.5	5.6	6.0
7	---	---	---	---	---	e8.5	42	e55	9.7	5.0	5.4	6.1
8	---	---	---	---	---	e9.0	39	e47	9.4	5.4	5.4	5.9
9	---	---	---	---	---	e14.0	35	e42	9.1	5.3	5.3	5.8
10	---	---	---	---	---	e13	33	e36	8.8	5.3	5.4	6.1
11	---	---	---	---	---	e20	30	e33	8.5	5.1	5.3	6.2
12	---	---	---	---	---	e37	29	e31	8.5	5.1	5.0	6.2
13	---	---	---	---	---	e53	28	e29	9.3	18	5.2	6.4
14	---	---	---	---	---	e32	27	e26	8.8	9.8	5.3	6.8
15	---	---	---	---	---	e23	25	e23	8.3	7.0	5.2	7.4
16	---	---	---	---	---	e100	23	e21	7.9	6.1	5.7	7.2
17	---	---	---	---	---	e400	22	e30	7.9	6.8	5.6	7.0
18	---	---	---	---	---	e1000	21	e50	7.6	6.5	13	11
19	---	---	---	---	---	400	20	e30	7.4	6.5	5.9	6.6
20	---	---	---	---	---	218	18	e20	7.4	6.5	5.7	11
21	---	---	---	---	---	140	e19	e17	7.4	8.2	5.7	10
22	---	---	---	---	---	94	e24	e14	7.1	6.7	5.7	7.2
23	---	---	---	---	---	68	e21	e12	7.1	10	6.3	6.4
24	---	---	---	---	---	51	e22	e11	7.3	7.0	6.2	6.0
25	---	---	---	---	---	40	e32	e9.0	7.4	6.3	6.1	8.5
26	---	---	---	---	---	56	e25	e38	8.1	6.3	6.1	24
27	---	---	---	---	---	50	e20	e16	7.7	6.2	5.8	53
28	---	---	---	---	---	42	e16	e14	7.4	6.1	5.8	11
29	---	---	---	---	---	51	e12	e13	7.3	6.1	6.1	9.3
30	---	---	---	---	---	492	e10	e12	7.2	6.0	6.0	8.4
31	---	---	---	---	---	858	---	13	---	5.9	5.9	---
TOTAL	---	---	---	---	---	4339.5	1299	1671.5	261.6	207.7	183.7	279.7
MEAN	---	---	---	---	---	140.0	43.30	53.92	8.720	6.700	5.926	9.323
MAX	---	---	---	---	---	1000	324	470	12	18	13	53
MIN	---	---	---	---	---	8.5	10	9.0	7.1	5.0	5.0	5.8
CFSM	---	---	---	---	---	4.98	1.54	1.92	0.31	0.24	0.21	0.33
IN.	---	---	---	---	---	5.74	1.72	2.21	0.35	0.27	0.24	0.37

e Estimated

TENNESSEE RIVER BASIN

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

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

DRAINAGE AREA.--85.5 mi².

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 23	1715	*17,700	*19.89	Mar 30	0045	5,760	13.36
Jan 24	1200	8,820	15.79	Mar 30	1345	3,590	11.21
Mar 17	1300	10,800	17.05	Mar 31	1315	5,290	12.94
Mar 18	0845	7,930	15.10				

Minimum daily discharge, 2.8 ft³/s, Sept. 13, 14.

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	6.3	13	112	41	242	41	1160	142	32	13	6.8	6.1
2	6.1	13	67	38	189	42	510	498	29	26	6.2	5.7
3	6.0	13	48	35	152	44	331	571	27	18	5.8	5.3
4	5.8	12	39	32	126	38	240	1380	25	27	5.3	4.8
5	6.0	11	33	31	101	35	189	538	24	16	5.1	4.3
6	13	11	29	40	122	35	155	305	64	13	4.6	3.9
7	18	11	32	48	182	33	133	197	36	11	4.1	3.6
8	12	11	245	43	172	33	120	135	28	11	3.9	3.3
9	9.4	11	276	42	150	35	111	105	24	10	3.5	3.3
10	8.1	11	207	46	133	35	95	94	22	9.9	3.5	3.3
11	7.2	11	275	52	112	32	87	85	20	9.9	3.5	3.1
12	9.0	11	174	54	97	113	81	70	19	22	3.7	2.9
13	16	11	267	53	86	122	76	914	19	71	3.1	2.8
14	364	10	612	49	75	96	71	466	22	34	3.0	2.8
15	148	10	296	45	69	81	68	214	20	19	3.1	2.9
16	66	10	180	40	64	89	61	138	18	14	4.4	4.2
17	42	10	247	38	58	6450	58	148	18	12	8.3	6.2
18	30	10	251	41	52	4340	54	275	17	10	11	12
19	24	10	176	515	50	956	52	149	16	11	15	22
20	21	12	123	407	83	533	50	108	14	12	14	13
21	18	13	93	250	80	375	49	86	14	9.7	9.7	129
22	16	12	77	162	64	265	48	71	13	8.9	7.2	94
23	15	12	236	9480	58	212	43	62	13	11	6.2	45
24	15	17	210	6260	54	174	43	56	13	11	7.8	21
25	24	36	145	1980	51	142	48	50	13	11	15	16
26	23	24	110	571	52	352	41	47	16	9.2	17	244
27	18	19	90	352	47	247	40	44	14	8.9	12	640
28	15	19	75	246	43	192	40	40	13	8.1	9.4	186
29	14	37	62	184	---	472	38	39	13	7.2	9.8	90
30	13	269	52	141	---	2620	35	40	12	7.6	8.5	56
31	13	---	46	115	---	2910	---	37	---	7.0	7.0	---
TOTAL	1001.9	680	4885	21431	2764	21144	4127	7104	628	469.4	227.5	1636.5
MEAN	32.32	22.67	157.6	691.3	98.71	682.1	137.6	229.2	20.93	15.14	7.339	54.55
MAX	364	269	612	9480	242	6450	1160	1380	64	71	17	640
MIN	5.8	10	29	31	43	32	35	37	12	7.0	3.0	2.8
CFSM	0.38	0.27	1.84	8.09	1.15	7.98	1.61	2.68	0.24	0.18	0.09	0.64
IN.	0.44	0.30	2.13	9.32	1.20	9.20	1.80	3.09	0.27	0.20	0.10	0.71

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

MEAN	58.31	100.4	271.2	314.2	298.7	358.3	200.8	121.2	72.22	45.26	32.10	39.63
MAX	285	296	825	691	793	726	503	261	294	127	92.1	240
(WY)	1996	1997	1991	2002	1991	1994	1994	1997	1997	1999	1996	1992
MIN	5.09	10.7	22.1	28.4	91.4	191	60.2	28.5	19.4	9.06	7.33	3.90
(WY)	2000	2000	2000	2000	2000	2001	1999	2001	2000	2000	1999	1999

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1990 - 2002	
ANNUAL TOTAL	41501.9		66098.3			
ANNUAL MEAN	113.7		181.1		158.9	
HIGHEST ANNUAL MEAN					233	
LOWEST ANNUAL MEAN					79.7	
HIGHEST DAILY MEAN	3520	Feb 16	9480	Jan 23	9480	Jan 23 2002
LOWEST DAILY MEAN	5.8	Oct 4	2.8	Sep 13	2.0	Sep 18 1999
ANNUAL SEVEN-DAY MINIMUM	6.6	Sep 29	3.0	Sep 9	2.1	Sep 14 1999
MAXIMUM PEAK FLOW			17700	Jan 23	17700	Jan 23 2002
MAXIMUM PEAK STAGE			19.89	Jan 23	19.89	Jan 23 4003
INSTANTANEOUS LOW FLOW			2.6	Aug 13	1.7	Sep 9 1999
ANNUAL RUNOFF (CFSM)	1.33		2.12		1.86	
ANNUAL RUNOFF (INCHES)	18.06		28.76		25.26	
10 PERCENT EXCEEDS	244		257		300	
50 PERCENT EXCEEDS	31		37		51	
90 PERCENT EXCEEDS	10		6.2		8.7	

a Also occurred Aug. 14, Sept. 13, 15.

