03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN

LOCATION.--Lat 36°17'49", long 86°39'31", Davidson County, Hydrologic Unit 05130202, at right bank in powerhouse, at Old Hickory Dam, 2.0 mi west of Hendersonville, and at mile 216.2.

DRAINAGE AREA.--11,673 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to September 1942, October 1947 to current year. Prior to July 1953, published as "at dam 3, near Old Hickory". July 1953 to September 1986 published as "below Old Hickory".

GAGE.--Datum of gage is NGVD of 1929.

REMARKS.--Flow regulated by six lakes or reservoirs (see p. 194).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 173,000 ft^3/s, Jan. 29, 1937; maximum gage height, 438.80 ft, Mar. 14, 1975; minimum daily discharge, 86 ft^3/s, Aug. 15, 1936; minimum gage height since filling of Cheatham Lake on Oct. 1, 1956, 383.49 ft, Sept. 10, 1962, at present datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1793, 437.4 ft Dec. 31, 1926, at present datum, from profile by U.S. Army Corps of Engineers, discharge, 200,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 98,100 ft^3/s, Feb. 7; minimum daily, 5,750 ft^3/s, Nov. 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11,200	16,600	36,300	27,700	14,700	23,600	22,500	22,300	29,200	20,400	28,300	18,600
2	12,400	16,100	24,600	31,300	15,200	34,200	23,600	19,700	27,300	18,300	21,600	18,000
3	14,700	14,600	24,000	32,500	21,400	32,500	14,700	23,400	18,700	16,200	14,400	15,200
4	12,300	13,700	25,000	28,400	27,600	22,800	16,900	25,800	17,400	12,200	15,900	14,300
5	12,200	12,400	24,000	27,100	52,500	21,300	15,400	15,800	24,000	14,700	16,400	10,900
6	15,800	11,300	22,700	26,500	94,700	57,800	17,500	16,600	24,500	13,400	18,000	10,900
7	16,700	12,400	21,300	32,900	98,100	56,000	16,600	20,500	18,800	22,500	13,800	9,790
8	18,300	11,700	23,700	23,900	85,700	41,900	19,500	27,600	17,600	22,100	13,900	8,970
9	18,300	11,300	24,200	20,100	71,500	39,000	19,500	22,700	19,900	22,000	13,400	9,610
10	18,300	5,800	22,900	19,700	55,500	35,400	19,500	18,900	19,900	21,900	15,200	10,400
11	18,300	5,760	20,200	16,700	40,800	35,100	14,300	19,100	20,000	18,400	17,900	10,500
12	13,800	5,750	22,300	15,800	41,400	36,300	11,400	19,800	15,400	17,400	19,200	9,030
13	12,600	9,050	20,900	16,900	44,200	35,500	28,100	16,000	18,000	16,800	19,300	10,100
14	17,100	10,200	18,100	18,300	44,000	35,400	47,700	15,500	20,800	18,800	19,500	10,600
15	18,000	9,260	21,100	18,300	43,900	32,000	39,900	24,200	19,500	19,400	19,600	16,100
16	17,800	8,670	19,200	18,700	42,500	35,100	25,000	18,900	18,600	19,400	18,300	16,600
17	17,000	8,430	17,200	20,400	38,300	33,900	23,600	12,300	19,500	19,400	18,300	22,800
18	15,600	11,500	20,900	25,200	30,600	28,100	24,600	10,400	19,500	19,400	18,300	33,200
19	13,700	26,700	22,700	34,400	32,900	32,500	22,700	9,720	19,600	19,400	19,500	27,600
20	14,100	28,800	19,600	35,300	36,300	24,000	22,300	13,000	18,700	20,100	19,500	13,200
21	17,000	25,800	21,400	27,500	29,900	25,000	24,900	10,800	15,800	20,500	19,500	12,200
22	15,600	23,900	25,100	25,300	20,800	32,600	31,000	10,300	14,400	20,200	19,000	17,200
23	15,600	14,600	23,800	25,500	25,800	25,900	43,400	7,680	12,400	18,300	19,600	18,900
24	18,300	16,000	20,700	23,500	29,000	24,300	40,400	8,420	12,400	15,900	19,400	18,800
25	19,800	20,400	28,300	22,600	28,100	25,300	27,100	8,700	13,500	17,300	19,600	18,600
26	12,900	22,800	24,900	33,000	21,000	27,400	19,800	9,250	14,600	15,300	19,500	19,400
27	15,000	26,100	20,300	35,600	21,700	23,500	19,200	10,000	18,100	11,100	19,500	18,000
28	18,600	25,100	21,000	27,500	25,400	17,800	25,000	12,400	25,200	16,300	17,100	18,100
29	19,500	33,700	23,900	27,900	23,600	16,700	21,100	13,500	22,400	16,700	14,500	16,800
30	19,500	41,000	22,200	27,800	---	17,900	22,100	11,000	20,400	14,700	12,200	14,600
31	17,700	---	26,300	17,900	---	19,500	---	21,200	---	16,400	12,500	---
TOTAL	497,700	499,420	708,800	784,200	1,157,100	948,300	719,300	495,470	576,100	554,900	552,700	469,000
MEAN	16,050	16,650	22,860	25,300	39,900	30,590	23,980	15,980	19,200	17,900	17,830	15,630
MAX	19,800	41,000	36,300	35,600	98,100	57,800	47,700	27,600	29,200	22,500	28,300	33,200
MIN	11,200	5,750	17,200	15,800	14,700	16,700	11,400	7,680	12,400	11,100	12,200	8,970

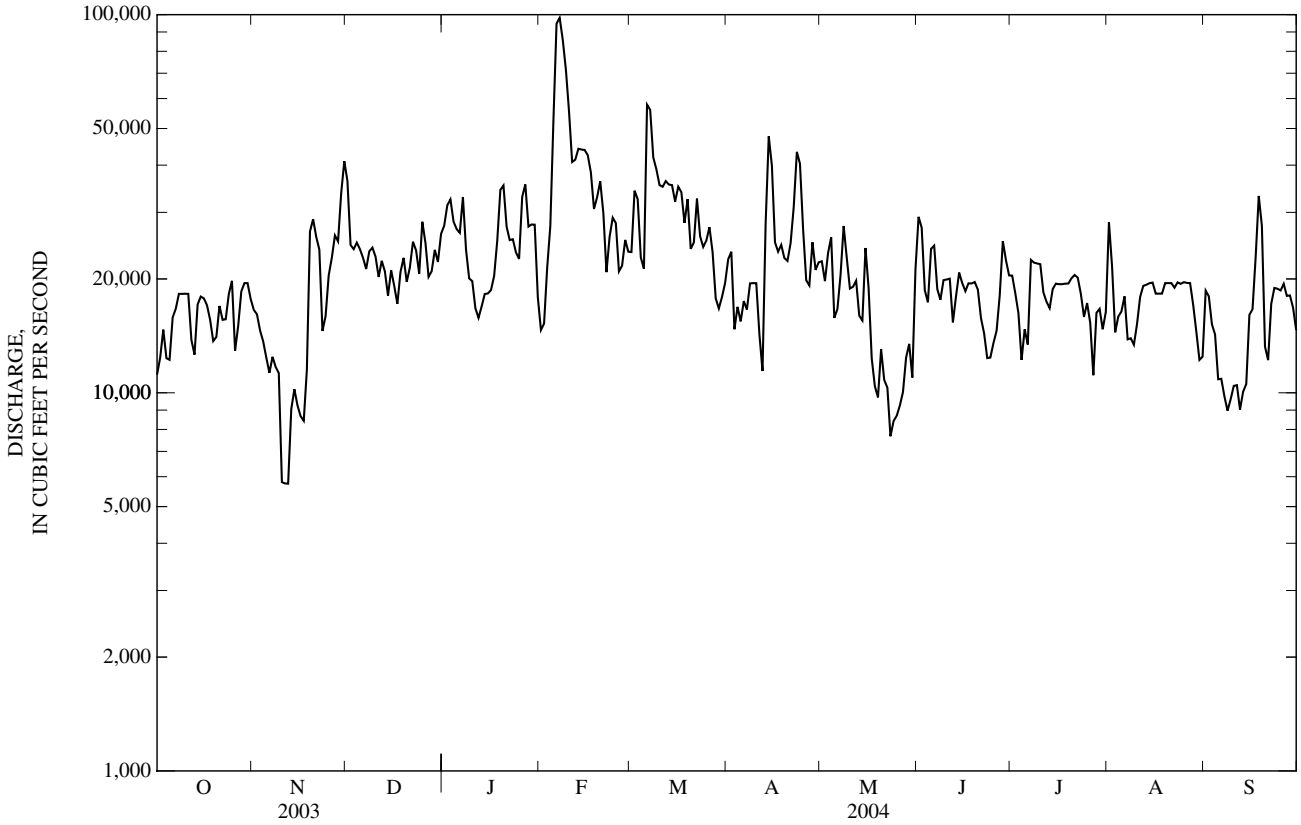
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004, BY WATER YEAR (WY)

MEAN	9,191	12,150	21,450	27,640	27,840	31,210	28,290	20,700	15,780	12,780	12,250	10,190
MAX	29,430	29,530	43,590	79,580	61,700	73,880	74,400	65,100	40,510	28,410	21,400	27,600
(WY)	(1990)	(1980)	(1979)	(1974)	(1957)	(1975)	(1994)	(1984)	(1997)	(1967)	(1982)	(1979)
MIN	2,660	3,449	3,974	4,656	8,524	6,778	6,963	5,465	6,048	4,211	4,991	2,723
(WY)	(1969)	(1981)	(1981)	(1981)	(1981)	(1981)	(1986)	(1988)	(1988)	(1974)	(1975)	(1968)

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		*WATER YEARS 1957 - 2004	
ANNUAL TOTAL	8,881,660		7,962,990			
ANNUAL MEAN	24,330		21,760		19,090	
HIGHEST ANNUAL MEAN					28,560	1974
LOWEST ANNUAL MEAN					8,780	1988
HIGHEST DAILY MEAN	91,600	Feb 17	98,100	Feb 7	146,000	Mar 14, 1975
LOWEST DAILY MEAN	5,750	Nov 12	5,750	Nov 12	200	Nov 3, 1957
ANNUAL SEVEN-DAY MINIMUM	7,780	Nov 10	7,780	Nov 10	1,070	Oct 28, 1969
10 PERCENT EXCEEDS	42,900		33,400		40,500	
50 PERCENT EXCEEDS	19,800		19,500		13,800	
90 PERCENT EXCEEDS	12,200		12,200		5,360	

* Regulated period only.



03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1979 to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1979 to September 2004 (discontinued).
pH: April 1979 to September 2004 (discontinued).
WATER TEMPERATURE: April 1979 to September 2004 (discontinued).
DISSOLVED OXYGEN: April 1979 to September 2004 (discontinued).
TURBIDITY: October 1992 to September 2004 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1979.

REMARKS.--Flow regulated by Old Hickory Dam and other reservoirs above station. Periods of missing record were due to instrument malfunctions. Supersaturation of dissolved oxygen may occur due to local hydraulic conditions. All parameters affected by release from Old Hickory Dam. Records for water temperature and specific conductance are excellent, pH and turbidity are fair, and dissolved oxygen are poor

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 269 microsiemens, Jan. 3, 4, 2002; minimum, 137 microsiemens, March 14, 1994.
pH: Maximum, 9.8 units, March 26, 1988; minimum, 6.4 units, July 28, 1991, July 24, 25, 26, 1993.
WATER TEMPERATURE: Maximum, 27.6°C, August 8, 1988; minimum, 2.1°C, Dec. 24, 1989.
DISSOLVED OXYGEN: Maximum, 17.5 mg/L Dec. 6, 11, 2002; minimum, 2.9 mg/L, Sept. 5, 1988, July 8, 1993.
TURBIDITY: Maximum recorded, 250 NTU, Feb. 7, 2004, minimum, 1 NTU, many days during the 1996, Sept. 20, 1997, and many days during the 2000, 2001, and 2002 water years, Oct. 4, 5, 6, 2002, Sept. 8, 2003.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 233 microsiemens, Dec. 30, Jan. 11, 12; minimum, 171 microsiemens, July 8, 9.
pH: Maximum, 8.9 units, July 30; minimum, 7.2 units, Nov. 22, 23, Dec. 1, 2.
WATER TEMPERATURE: Maximum, 24.8°C, July 30; minimum, 6.0°C, Jan. 31, Feb. 1.
DISSOLVED OXYGEN: Maximum, 16.3 mg/L, Feb. 5; minimum, 5.7 mg/L, May 26, June 17.
TURBIDITY: Maximum, 250 NTU, Feb. 7; minimum, 2.0 NTU, many days.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	199	194	197	195	193	194	224	223	224	228	226	227
2	200	197	199	197	193	195	226	224	225	230	224	227
3	201	198	200	198	196	197	228	226	227	231	229	230
4	202	200	201	197	193	196	227	227	227	232	229	231
5	200	196	198	196	193	194	230	227	228	230	228	229
6	197	193	195	196	194	195	230	225	227	230	227	228
7	194	190	192	196	194	195	225	214	219	229	226	227
8	192	190	191	196	195	195	214	211	212	229	227	228
9	193	191	192	196	195	195	215	212	213	230	225	227
10	193	191	192	196	196	196	215	214	215	231	227	229
11	---	---	---	196	196	196	216	215	215	233	230	232
12	---	---	---	197	196	196	216	214	215	233	230	232
13	---	---	---	198	196	197	214	214	214	232	230	231
14	193	191	192	198	197	198	214	214	214	232	228	230
15	206	189	193	199	198	198	218	214	215	230	228	229
16	196	189	191	199	198	199	222	218	220	229	227	228
17	196	191	193	200	199	199	224	221	223	229	227	228
18	192	188	190	200	198	200	225	224	224	230	227	229
19	191	188	190	201	200	200	224	223	223	228	222	225
20	191	188	189	203	199	201	223	221	222	224	221	222
21	192	190	191	203	202	202	223	222	222	226	222	224
22	191	189	190	211	203	205	225	222	224	228	224	225
23	193	189	192	217	211	214	227	225	226	232	228	230
24	193	191	192	219	215	217	228	224	227	231	229	230
25	192	191	192	222	219	220	226	222	224	229	226	227
26	194	191	192	225	222	224	223	221	222	226	221	224
27	195	193	194	224	222	223	224	220	222	224	221	222
28	195	192	193	229	223	224	228	224	225	226	224	225
29	195	192	194	232	229	231	231	226	229	224	221	222
30	194	192	193	230	224	228	233	230	231	228	222	226
31	194	192	194	---	---	---	232	227	230	227	226	227
MONTH	206	188	193	232	193	204	233	211	222	233	221	227

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	226	225	226	201	197	199	200	198	199	199	193	197
2	226	222	224	199	197	198	201	197	199	193	187	189
3	223	221	222	201	197	199	199	196	197	188	183	186
4	223	220	221	207	201	204	197	196	197	186	183	184
5	225	219	221	210	206	209	197	195	196	188	186	187
6	228	195	218	213	203	207	195	193	194	190	187	188
7	195	177	184	219	209	214	195	193	193	193	190	191
8	196	187	192	209	196	199	193	193	193	196	193	195
9	188	174	178	208	199	203	193	192	193	197	196	196
10	179	174	177	214	208	211	193	192	192	197	195	196
11	177	174	175	213	201	209	193	192	192	195	193	194
12	184	175	178	202	191	195	194	192	193	193	192	193
13	194	184	189	192	187	190	194	190	192	193	192	192
14	201	194	197	190	186	188	190	187	189	193	192	193
15	202	200	201	192	189	191	194	186	189	195	192	193
16	202	200	201	193	190	191	199	194	197	196	194	195
17	202	200	201	191	189	190	204	198	202	197	195	196
18	202	200	201	189	186	188	208	204	206	196	195	195
19	204	201	202	187	184	185	210	208	209	200	196	197
20	203	199	201	187	185	186	211	209	210	198	197	197
21	201	199	200	186	184	185	212	209	211	199	196	197
22	201	199	200	189	185	187	209	200	203	199	198	198
23	201	199	200	191	189	190	200	196	197	200	199	199
24	201	196	200	193	189	191	199	196	198	201	199	201
25	202	198	200	198	192	195	197	196	196	202	201	201
26	201	197	200	201	197	199	198	195	196	203	202	202
27	201	199	200	201	200	201	199	198	198	203	201	202
28	201	199	200	202	201	202	200	198	199	202	201	201
29	201	199	200	201	199	200	201	199	200	201	200	201
30	---	---	---	199	198	199	200	199	200	202	201	202
31	---	---	---	199	195	196	---	---	---	201	198	200
MONTH	228	174	200	219	184	197	212	186	198	203	183	195
		JUNE			JULY			AUGUST			SEPTEMBER	
1	199	198	199	196	192	194	190	186	188	191	190	190
2	199	197	198	193	187	191	193	188	191	191	190	190
3	199	199	199	188	182	186	195	191	193	190	189	190
4	199	198	199	183	181	183	195	194	195	189	189	189
5	200	199	200	181	178	180	195	194	195	190	189	189
6	202	200	201	179	177	178	195	194	194	191	190	190
7	203	202	202	178	173	176	195	194	195	191	191	191
8	204	203	204	174	171	173	196	195	196	191	191	191
9	204	203	203	173	171	172	197	194	195	192	191	192
10	203	202	203	175	173	174	194	191	192	192	191	192
11	203	202	202	176	175	175	191	189	190	193	192	192
12	203	202	203	178	176	177	189	188	189	193	192	192
13	203	202	203	183	178	180	188	187	187	193	192	192
14	203	200	202	183	180	182	187	186	187	193	192	193
15	200	198	199	182	180	181	187	186	186	193	191	192
16	198	196	197	181	179	181	191	187	189	194	193	193
17	198	196	197	183	180	182	193	190	191	194	194	194
18	198	196	197	188	172	184	194	191	193	195	193	194
19	197	196	197	192	173	185	197	192	194	197	194	196
20	199	197	198	193	186	190	196	192	193	197	195	196
21	201	198	199	195	188	193	194	193	193	195	194	195
22	199	198	198	195	190	193	194	191	193	197	195	196
23	199	198	198	195	187	191	193	191	192	201	196	198
24	199	197	198	196	188	192	194	192	193	207	201	203
25	200	198	199	195	187	191	194	191	193	209	205	207
26	200	198	199	195	189	191	195	192	193	210	207	209
27	200	196	198	194	187	190	194	191	192	209	206	208
28	200	197	198	190	187	189	194	191	192	207	201	205
29	201	195	198	191	188	189	195	191	192	208	199	202
30	197	194	196	193	186	189	193	189	191	201	198	199
31	---	---	---	191	188	190	191	190	190	---	---	---
MONTH	204	194	199	196	171	185	197	186	192	210	189	195

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.9	20.4	20.7	17.6	17.1	17.3	12.2	11.9	12.1	8.8	8.5	8.6
2	20.4	20.0	20.2	18.0	17.4	17.6	11.9	11.6	11.8	9.3	8.8	9.0
3	20.0	19.6	19.8	18.0	17.6	17.8	11.6	11.4	11.5	9.9	9.3	9.6
4	19.6	19.4	19.5	18.0	17.7	17.9	11.5	11.4	11.4	10.5	9.9	10.3
5	19.5	19.2	19.3	18.0	17.9	18.0	11.5	11.2	11.3	10.6	10.2	10.4
6	19.6	19.1	19.3	17.9	17.5	17.7	11.2	10.7	11.0	10.2	9.4	9.9
7	19.6	19.2	19.4	17.5	16.9	17.2	10.8	10.7	10.7	9.4	9.1	9.3
8	19.8	19.3	19.6	16.9	16.3	16.6	10.8	10.6	10.7	9.1	8.9	9.0
9	19.9	19.6	19.7	16.3	15.7	16.0	11.1	10.7	10.9	8.9	8.7	8.8
10	19.8	19.7	19.8	15.8	15.5	15.7	11.2	10.9	11.1	8.7	8.2	8.4
11	---	---	---	15.7	15.6	15.7	11.0	10.6	10.8	8.2	7.9	8.1
12	---	---	---	15.9	15.7	15.8	10.6	10.3	10.4	8.2	7.8	8.0
13	---	---	---	15.8	15.0	15.3	10.3	9.9	10.0	8.1	7.8	8.0
14	19.5	19.0	19.3	15.0	14.6	14.7	9.9	9.7	9.8	8.2	7.9	8.1
15	19.0	18.8	18.9	14.6	14.3	14.4	9.7	9.5	9.6	8.2	8.0	8.1
16	19.0	18.6	18.8	14.6	14.5	14.5	9.7	9.6	9.7	8.3	8.0	8.1
17	18.8	18.4	18.5	14.8	14.5	14.6	9.6	9.2	9.4	8.3	8.2	8.2
18	18.4	18.2	18.3	15.1	14.8	14.9	9.3	9.1	9.2	8.2	7.8	8.1
19	18.5	18.1	18.3	15.2	14.9	15.0	9.1	8.8	9.0	7.8	7.0	7.4
20	18.8	18.2	18.5	15.4	15.1	15.2	8.8	8.5	8.7	7.0	6.6	6.8
21	18.7	18.4	18.6	15.3	15.1	15.2	8.7	8.5	8.6	6.8	6.6	6.7
22	18.6	18.3	18.5	15.2	14.8	15.0	8.9	8.6	8.7	6.9	6.7	6.8
23	18.6	18.3	18.5	15.2	14.9	15.1	8.9	8.8	8.9	6.7	6.3	6.5
24	18.5	18.1	18.3	15.2	14.3	14.8	8.8	8.3	8.5	6.8	6.5	6.6
25	18.4	18.2	18.3	14.3	13.9	14.1	8.3	8.1	8.2	6.9	6.5	6.7
26	18.3	17.8	18.1	13.9	13.5	13.6	8.2	8.0	8.1	7.4	6.9	7.1
27	17.8	17.5	17.7	13.5	13.4	13.4	8.2	8.0	8.1	7.4	6.9	7.3
28	17.5	17.1	17.2	13.4	12.9	13.2	8.4	8.0	8.2	6.9	6.5	6.7
29	17.1	16.9	17.0	12.9	12.4	12.6	8.5	8.2	8.3	6.5	6.3	6.4
30	17.1	16.7	16.9	12.4	12.1	12.2	8.6	8.3	8.4	6.5	6.3	6.4
31	17.3	16.8	17.0	---	---	---	8.7	8.3	8.5	6.4	6.0	6.3
MONTH	20.9	16.7	18.7	18.0	12.1	15.4	12.2	8.0	9.7	10.6	6.0	7.9
		FEBRUARY			MARCH			APRIL			MAY	
1	6.4	6.0	6.2	8.3	8.0	8.2	12.7	12.5	12.6	16.5	16.0	16.2
2	6.4	6.3	6.4	8.6	8.2	8.4	12.6	12.3	12.4	16.4	15.7	16.0
3	6.4	6.2	6.3	8.7	8.4	8.5	12.6	12.2	12.4	16.4	16.0	16.1
4	6.6	6.2	6.4	9.3	8.6	8.9	12.7	12.3	12.5	16.3	15.7	16.0
5	6.7	6.5	6.6	9.7	9.3	9.5	12.9	12.4	12.6	16.4	15.9	16.2
6	6.8	6.3	6.6	10.5	9.6	10.1	13.2	12.6	12.8	17.3	16.2	16.6
7	6.4	6.2	6.3	10.6	10.2	10.4	13.9	12.9	13.3	17.4	16.4	16.8
8	6.8	6.3	6.6	10.6	10.4	10.5	13.8	13.3	13.5	18.3	17.4	18.0
9	6.9	6.7	6.8	10.6	10.3	10.5	14.2	13.3	13.8	18.5	17.8	18.1
10	7.2	6.9	7.1	10.3	9.9	10.1	14.3	14.0	14.1	18.5	17.7	18.0
11	7.3	7.1	7.2	9.9	9.8	9.8	14.0	13.7	13.8	18.7	17.7	18.1
12	7.5	7.3	7.4	10.0	9.8	9.9	13.9	13.3	13.6	18.7	17.7	18.2
13	7.4	7.3	7.4	9.9	9.6	9.8	13.3	12.3	12.8	18.5	18.0	18.2
14	7.3	7.1	7.2	9.8	9.3	9.6	12.3	11.9	12.1	18.9	18.0	18.4
15	7.2	6.9	7.1	9.3	9.1	9.2	12.3	11.7	12.0	18.9	18.0	18.4
16	6.9	6.7	6.8	9.3	9.0	9.2	13.0	12.2	12.5	19.1	18.8	18.9
17	7.1	6.8	7.0	9.3	9.1	9.2	13.5	12.4	12.9	19.6	18.6	19.1
18	7.3	7.0	7.1	9.8	9.3	9.5	14.0	13.2	13.6	19.6	18.6	19.1
19	7.4	6.9	7.2	10.6	9.6	10.1	14.5	13.6	14.0	19.8	18.5	19.2
20	7.4	7.2	7.3	10.8	10.3	10.6	15.0	14.2	14.6	20.0	18.5	19.1
21	7.4	7.2	7.3	10.7	10.3	10.5	14.9	14.4	14.6	19.8	18.4	19.2
22	7.6	7.1	7.3	10.5	10.1	10.2	15.0	14.6	14.8	20.6	19.2	19.7
23	7.6	7.3	7.5	10.4	9.9	10.2	15.0	14.6	14.8	21.1	19.6	20.2
24	8.0	7.6	7.8	10.8	10.0	10.4	15.5	14.9	15.2	20.7	19.7	20.2
25	7.9	7.7	7.8	11.5	10.6	11.0	15.5	15.1	15.3	21.3	19.7	20.4
26	7.7	7.5	7.6	12.1	11.3	11.7	15.7	15.2	15.4	21.1	19.8	20.4
27	7.6	7.3	7.4	12.5	11.8	12.2	15.9	15.6	15.7	22.1	20.2	21.2
28	7.8	7.3	7.5	13.1	12.3	12.7	16.2	15.7	15.9	22.0	20.7	21.3
29	8.2	7.6	7.9	13.1	12.4	12.6	16.3	15.6	16.0	22.8	21.2	22.1
30	---	---	---	13.2	12.6	12.9	16.3	15.8	16.0	23.2	21.8	22.3
31	---	---	---	13.0	12.7	12.8	---	---	---	23.0	21.6	22.3
MONTH	8.2	6.0	7.1	13.2	8.0	10.3	16.3	11.7	13.9	23.2	15.7	18.8

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.2	22.1	22.7	21.6	21.1	21.3	24.6	22.7	23.7	23.2	22.6	22.9
2	22.8	21.9	22.4	21.2	20.3	20.9	24.4	22.8	23.5	23.1	22.7	22.9
3	21.9	21.6	21.7	22.2	19.8	20.8	23.8	22.8	23.3	23.0	22.4	22.7
4	22.1	21.4	21.8	20.4	19.9	20.2	23.7	22.7	23.3	22.9	22.3	22.5
5	22.8	21.8	22.4	20.6	19.8	20.1	23.5	22.6	23.1	22.6	22.1	22.5
6	22.7	22.2	22.5	21.1	20.1	20.5	23.7	23.0	23.5	22.7	22.3	22.6
7	23.4	22.5	22.8	21.4	20.3	20.8	23.7	23.4	23.6	22.5	22.1	22.3
8	23.1	22.3	22.5	21.7	20.2	20.8	23.6	23.1	23.3	23.5	22.4	23.0
9	23.0	22.1	22.6	21.9	20.7	21.2	23.5	22.7	23.0	23.4	23.1	23.2
10	22.9	22.0	22.4	22.3	21.4	21.7	22.9	22.3	22.6	23.6	22.9	23.2
11	22.7	22.0	22.5	22.0	21.2	21.7	22.9	22.1	22.5	23.3	22.5	22.9
12	22.6	22.2	22.4	22.4	21.8	22.0	23.0	22.2	22.7	22.9	22.4	22.6
13	23.8	22.4	22.8	22.4	21.4	22.1	22.6	22.0	22.4	23.2	22.5	22.8
14	23.1	22.4	22.8	23.1	21.4	22.4	22.1	21.9	22.0	23.4	22.8	23.1
15	22.7	21.9	22.2	23.2	22.6	23.0	22.1	21.8	21.9	24.1	23.0	23.4
16	22.3	21.8	22.1	23.2	22.7	22.9	22.5	21.9	22.2	23.5	22.9	23.1
17	21.9	21.5	21.7	23.2	22.4	22.9	22.5	22.1	22.3	23.0	22.8	22.9
18	21.8	21.3	21.5	22.9	22.4	22.7	22.8	21.9	22.4	22.8	22.2	22.6
19	21.5	21.1	21.3	23.1	22.8	23.0	22.8	22.1	22.5	22.2	21.7	21.9
20	22.3	21.4	21.9	23.2	22.4	22.8	22.7	22.4	22.6	22.0	21.6	21.8
21	22.5	21.6	21.9	23.1	22.2	22.5	22.4	21.7	22.0	22.1	21.7	21.8
22	22.4	21.4	21.8	22.6	21.9	22.3	22.4	22.0	22.1	22.1	21.7	21.8
23	21.9	21.1	21.5	22.8	21.9	22.5	22.5	21.7	22.1	22.1	21.8	21.9
24	22.9	21.3	21.9	23.2	22.0	22.6	22.4	21.6	22.0	22.4	21.7	21.9
25	22.6	21.3	21.8	23.1	22.7	22.9	22.4	21.7	22.0	22.4	21.8	22.0
26	22.3	21.5	21.8	23.0	22.3	22.7	22.6	21.7	22.1	22.3	21.8	22.1
27	23.1	21.9	22.4	22.7	22.1	22.5	22.4	21.9	22.1	22.1	21.4	21.9
28	22.6	22.0	22.4	24.2	22.5	23.5	22.4	21.9	22.2	21.7	21.3	21.5
29	22.4	21.6	22.1	24.1	22.3	23.4	22.5	21.8	22.2	21.4	21.1	21.2
30	22.1	21.1	21.8	24.8	22.1	23.3	22.2	21.8	21.9	21.2	20.9	21.0
31	---	---	---	23.2	22.4	22.7	22.8	21.9	22.4	---	---	---
MONTH	23.8	21.1	22.1	24.8	19.8	22.1	24.6	21.6	22.6	24.1	20.9	22.4

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.5	7.5	8.0	10.7	9.6	10.3	11.9	10.1	10.8	13.1	11.6	12.9
2	9.8	7.5	8.6	10.3	9.8	10.1	10.3	10.1	10.2	13.1	12.8	12.9
3	9.6	8.8	9.2	10.4	9.5	10.1	10.8	10.0	10.4	12.8	11.5	12.5
4	9.3	8.2	8.7	10.5	10.0	10.2	10.2	9.6	9.9	12.7	11.4	12.4
5	9.3	8.2	8.7	10.1	9.5	9.7	9.8	9.6	9.7	12.6	11.3	12.0
6	9.1	8.4	8.7	9.6	9.1	9.4	9.9	9.7	9.8	12.7	12.5	12.6
7	9.4	8.2	8.7	9.4	8.6	8.9	9.8	9.6	9.7	12.6	12.5	12.5
8	9.4	8.3	8.7	9.0	8.5	8.8	9.7	9.5	9.6	12.5	12.4	12.5
9	9.1	7.8	8.5	9.5	8.7	9.2	9.7	9.5	9.6	12.5	12.3	12.4
10	8.8	7.7	8.4	9.6	9.0	9.3	10.0	9.7	9.8	12.6	12.3	12.4
11	---	---	---	9.9	9.2	9.5	10.2	9.8	10.0	12.7	12.3	12.4
12	---	---	---	10.0	9.4	9.6	10.3	10.1	10.2	12.7	12.5	12.6
13	---	---	---	9.8	9.3	9.5	10.4	10.2	10.3	12.8	12.4	12.6
14	8.6	6.8	7.5	10.1	9.6	9.8	10.5	10.3	10.4	12.9	12.7	12.8
15	7.6	6.7	7.2	10.1	9.8	10	10.6	10.4	10.5	13.1	12.8	12.9
16	7.9	7.1	7.4	9.8	9.5	9.7	10.5	10.3	10.4	13.2	12.9	13.1
17	9.8	7.0	7.7	9.8	9.1	9.6	10.8	10.4	10.6	13.2	12.9	13.1
18	9.0	7.6	8.2	9.6	9.0	9.3	10.8	10.6	10.7	13.2	13.0	13.1
19	8.4	7.7	8.2	9.4	9.1	9.2	11.0	10.8	10.9	13.5	13.1	13.3
20	8.9	8.1	8.4	9.5	9.1	9.3	11.1	10.8	11.0	13.6	13.4	13.5
21	8.8	8.0	8.4	9.5	9.1	9.3	11.2	11.0	11.1	13.6	12.8	13.4
22	8.8	7.7	8.3	9.6	9.2	9.4	11.2	10.8	11.0	13.5	12.5	12.9
23	9.0	7.9	8.6	9.5	9.1	9.3	11.1	10.9	11.0	12.7	12.4	12.6
24	9.1	8.5	8.9	9.5	9.2	9.4	11.2	10.1	10.6	12.8	12.5	12.7
25	9.4	7.9	8.8	9.8	9.2	9.6	10.4	10.0	10.2	13.3	12.6	12.7
26	9.1	8.1	8.5	9.8	9.7	9.8	10.3	10.0	10.2	---	---	---
27	9.3	8.3	8.9	9.8	9.6	9.7	10.4	10.1	10.2	---	---	---
28	9.2	8.2	8.7	10.2	9.6	9.9	11.9	10.3	11.6	---	---	---
29	10.4	8.1	8.8	10.4	9.9	10.1	12.4	11.6	11.9	---	---	---
30	10.8	10.2	10.4	12.0	9.9	11.2	12.9	12.3	12.6	---	---	---
31	10.5	9.1	10.2	---	---	---	12.8	11.6	12.4	---	---	---
MONTH	10.8	6.7	8.5	12.0	8.5	9.6	12.9	9.5	10.6	13.6	11.3	12.8
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	11.9	11.6	11.7	12.3	11.8	11.9	11.6	11.0	11.3
2	14.0	12.8	13.9	11.8	11.5	11.7	12.1	11.6	11.9	11.1	10.2	10.5
3	13.9	13.6	13.7	12.8	11.6	11.9	12.3	11.4	12.0	10.8	9.9	10.3
4	13.8	13.5	13.7	12.4	11.9	12.2	12.4	12.0	12.2	10.6	9.5	9.9
5	16.3	13.2	14.3	12.2	11.5	11.8	12.5	11.9	12.3	10.6	9.6	10.1
6	15.3	14.9	15.0	13.5	11.5	12.8	12.7	12.1	12.4	11.0	9.9	10.3
7	15.5	15.3	15.4	13.1	12.3	12.8	13.4	12.3	12.8	10.9	9.9	10.4
8	15.4	14.8	15.1	12.9	10.5	11.3	13.2	12.1	12.6	11.5	10.9	11.2
9	14.9	14.2	14.5	10.6	10.2	10.3	12.9	12.1	12.6	11.2	10.6	10.9
10	14.4	12.8	13.8	10.7	10.2	10.5	12.9	12.6	12.7	11.3	10.1	10.5
11	14.5	12.0	13.0	10.8	10.5	10.7	12.8	12.1	12.3	10.9	9.6	10.3
12	---	---	---	10.5	10.2	10.3	12.4	11.5	11.9	10.9	10.0	10.4
13	---	---	---	10.5	10.3	10.4	12.3	11.4	11.5	10.3	9.8	10.0
14	---	---	---	11.0	10.4	10.6	13.9	12.2	13.4	10.3	9.5	9.9
15	---	---	---	11.3	10.8	11.1	13.0	11.6	12.4	10.0	9.1	9.5
16	---	---	---	12.0	11.3	11.5	11.6	11.4	11.5	10.1	9.1	9.6
17	---	---	---	11.7	11.5	11.6	11.6	11.2	11.3	9.9	8.5	9.2
18	---	---	---	11.8	11.6	11.7	11.8	11.2	11.5	10.2	8.1	9.2
19	11.0	10.8	10.9	12.1	11.6	11.9	12.1	11.3	11.7	10.4	7.4	9.4
20	11.0	10.9	10.9	12.1	11.8	12.0	12.6	11.9	12.2	10.5	8.6	9.3
21	11.2	10.9	11.0	12.1	11.8	12.0	12.3	11.1	11.6	10.3	8.4	9.4
22	11.3	11.1	11.2	12.3	11.9	12.1	11.1	10.6	10.9	10.3	9.0	9.6
23	11.4	11.2	11.3	12.5	12.0	12.2	12.4	10.3	11.3	9.7	8.7	9.1
24	13.5	11.3	11.5	12.6	12.0	12.3	12.4	9.7	10.6	9.0	8.3	8.7
25	11.5	11.3	11.4	12.5	12.1	12.3	10.0	9.5	9.7	9.7	7.9	8.9
26	11.6	11.2	11.4	12.7	12.0	12.4	10.2	9.5	9.8	9.3	5.7	8.6
27	11.8	11.5	11.6	13.0	12.3	12.7	11.0	10.0	10.4	9.9	7.1	8.9
28	12.0	11.6	11.8	13.1	12.6	12.8	11.4	10.5	11.0	9.4	8.0	8.8
29	12.1	11.7	11.9	13.0	12.2	12.5	11.8	10.9	11.4	10.0	8.3	9.2
30	---	---	---	12.4	11.9	12.2	11.8	10.9	11.3	10.1	7.9	9.1
31	---	---	---	12.2	11.8	12.0	---	---	---	9.3	8.3	8.9
MONTH	16.3	10.8	12.7	13.5	10.2	11.8	13.9	9.5	11.7	11.6	5.7	9.7

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.3	8.5	8.9	9.7	8.6	9.1	11.7	9.0	10.6	9.1	8.2	8.7
2	9.9	8.3	9.0	9.8	8.9	9.3	11.4	9.0	10.1	8.9	8.3	8.6
3	8.8	8.4	8.5	10.6	8.4	9.4	9.5	8.2	9.2	9.1	7.6	8.4
4	9.3	8.2	8.8	9.2	8.7	8.9	9.2	7.8	8.5	8.9	7.5	8.0
5	9.9	8.6	9.2	9.0	8.7	8.8	8.4	7.6	8.0	8.5	7.3	7.9
6	9.3	8.0	8.5	9.5	8.6	8.9	8.7	7.8	8.2	8.2	7.6	7.9
7	10.6	8.6	9.4	10.0	8.3	9.3	9.2	8.4	8.8	7.8	7.0	7.3
8	9.5	8.1	8.6	10.2	9.2	9.5	9.5	8.1	8.7	8.5	6.6	7.7
9	9.7	8.3	9.0	10.3	9.2	9.7	9.5	7.7	8.5	8.8	7.8	8.3
10	8.8	7.7	8.4	10.4	9.3	9.7	9.2	8.1	8.6	9.1	7.8	8.3
11	8.7	8.1	8.4	9.7	8.9	9.4	9.1	8.1	8.6	8.9	7.6	8.1
12	8.3	7.2	7.8	9.6	8.9	9.3	9.1	8.4	8.8	8.6	7.3	7.9
13	8.9	7.3	8.0	9.4	8.2	8.8	9.0	8.4	8.7	8.9	7.4	8.2
14	9.0	7.7	8.3	9.4	8.2	8.8	8.9	8.4	8.6	9.2	8.0	8.5
15	8.7	7.6	8.1	9.4	8.8	9.2	9.0	8.4	8.6	9.8	7.1	8.4
16	8.0	5.9	7.5	9.5	8.6	9.0	9.6	8.3	8.9	8.6	7.1	8.1
17	7.8	5.7	6.7	9.5	8.6	8.9	10.1	8.6	9.4	8.8	7.9	8.3
18	8.5	6.9	7.9	9.6	8.6	9.1	10.3	8.5	9.4	11.7	8.2	10.3
19	8.3	7.5	7.8	10.0	9.2	9.6	9.5	8.7	9.1	11.3	8.7	9.7
20	8.9	7.6	8.3	10.4	9.2	9.7	9.0	8.5	8.8	9.2	8.2	8.7
21	9.2	7.8	8.5	10.6	9.0	9.6	8.5	7.6	8.0	10.3	8.6	9.3
22	9.1	8.2	8.6	10.0	9.3	9.6	9.1	8.0	8.5	10.5	9.3	9.9
23	8.4	7.8	8.1	9.8	9.1	9.5	10.0	8.2	8.9	10.5	9.0	9.8
24	9.4	7.4	8.3	9.8	8.6	9.2	9.8	8.6	9.1	10.5	8.7	9.6
25	8.5	7.4	7.9	9.3	8.3	9.0	9.8	8.5	9.2	10.5	8.2	9.2
26	8.5	7.5	7.9	9.2	8.4	8.9	9.4	8.4	8.9	10.1	8.4	9.3
27	9.5	8.0	8.6	9.1	8.1	8.8	9.2	8.3	8.7	9.4	7.6	8.8
28	9.4	8.7	9.0	10.8	8.9	10.1	9.1	8.2	8.6	9.0	7.5	8.4
29	9.9	8.8	9.4	10.9	9.5	10.3	8.7	7.8	8.4	9.6	7.5	8.7
30	10.1	9.1	9.6	10.8	9.4	9.9	8.2	7.3	7.5	9.7	8.0	8.9
31	---	---	---	9.8	8.8	9.3	8.7	7.5	8.1	---	---	---
MONTH	10.6	5.7	8.4	10.9	8.1	9.3	11.7	7.3	8.8	11.7	6.6	8.6

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN—Continued

TURBIDITY, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11	7	9	5	25	16	10	7	17	12	8	6
2	15	7	11	5	23	18	10	6	13	10	9	6
3	12	7	9	6	20	13	13	10	13	9	14	6
4	17	7	14	5	14	11	12	10	12	9	9	8
5	12	8	14	6	16	11	12	9	48	9	10	8
6	14	8	14	6	17	12	13	10	150	43	18	9
7	16	9	15	6	16	12	13	10	250	150	22	17
8	16	10	12	6	18	13	12	9	160	110	58	20
9	15	9	9	6	14	12	12	9	170	140	25	20
10	16	9	10	6	15	12	13	10	160	120	20	16
11	---	---	9	5	17	11	30	10	130	88	18	15
12	---	---	8	5	14	10	12	10	---	---	21	18
13	---	---	11	6	14	9	12	9	---	---	22	20
14	11	6	11	7	13	10	12	8	---	---	22	18
15	10	4	9	7	11	10	9	7	---	---	18	15
16	8	4	10	7	17	10	9	6	---	---	16	14
17	6	4	10	6	15	10	8	6	---	---	15	11
18	9	4	12	6	13	10	10	6	6	5	14	11
19	10	5	12	8	15	11	10	6	7	5	12	10
20	8	5	13	9	12	10	12	7	5	4	13	10
21	8	5	12	10	12	10	16	9	6	5	13	10
22	9	5	15	10	14	10	22	14	5	5	16	10
23	16	5	16	10	13	12	17	12	5	5	12	10
24	14	5	14	10	14	10	15	10	6	5	13	10
25	16	5	13	10	11	8	11	9	8	6	14	10
26	17	5	12	9	11	8	15	9	6	6	14	11
27	9	5	13	8	11	7	21	12	6	5	13	10
28	10	5	11	9	12	8	22	17	7	5	13	11
29	9	6	17	11	10	8	27	21	7	6	22	10
30	11	6	17	14	11	8	28	19	---	---	15	11
31	9	6	---	---	9	7	28	14	---	---	13	10
MONTH	17	4	17	5	25	7	30	6	250	4	58	6
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13	10	18	13	28	9	10	5	6	4	5	3
2	14	10	21	14	15	8	7	4	6	4	6	2
3	19	9	21	16	13	8	14	3	7	5	4	3
4	14	9	---	---	11	6	12	5	8	3	4	3
5	13	9	---	---	13	7	12	4	7	3	4	2
6	17	9	---	---	13	8	33	4	6	2	4	3
7	16	8	---	---	14	10	25	4	7	3	4	3
8	12	8	---	---	---	---	6	3	7	4	5	2
9	---	---	---	---	---	---	5	4	10	4	6	3
10	---	---	6	4	---	---	6	4	10	3	4	3
11	---	---	6	4	---	---	5	4	13	4	4	2
12	---	---	6	5	---	---	7	4	8	4	7	2
13	13	11	9	5	---	---	7	4	32	4	4	2
14	13	11	6	5	---	---	6	4	10	4	4	2
15	14	12	7	4	---	---	6	5	13	6	4	2
16	17	14	7	5	---	---	13	4	10	6	6	3
17	18	16	7	5	---	---	6	4	9	3	8	4
18	18	16	8	3	---	---	7	4	9	4	8	4
19	17	16	6	3	---	---	6	4	7	3	7	4
20	16	12	6	4	---	---	7	4	5	3	5	4
21	16	14	6	4	---	---	7	5	6	4	6	4
22	18	15	6	4	---	---	7	4	7	4	6	3
23	22	14	6	4	---	---	6	4	6	4	6	4
24	20	15	6	4	---	---	8	4	5	3	6	4
25	31	19	6	4	---	---	6	4	7	3	7	4
26	23	19	11	3	---	---	5	4	7	3	15	4
27	20	10	14	4	15	7	5	4	6	2	7	4
28	14	10	13	4	17	7	6	4	6	3	32	4
29	15	12	13	5	11	7	6	4	8	2	9	3
30	19	12	13	5	10	5	5	4	5	2	36	5
31	---	---	21	7	---	---	6	4	5	3	---	---
MONTH	31	8	21	3	28	5	33	3	32	2	36	2