03600085 CARTERS CREEK AT PETTY LANE NEAR CARTERS CREEK, TN

LOCATION.--Lat 35°43'39", long 86°59'19", Maury County, Hydrologic Unit 06040003, at bridge on Petty Lane, 0.8 mile north of Carters Creek, and at mile 4.7.

DRAINAGE AREA.--16.6 mi^2.

PERIOD OF RECORD.--October 1986 to current year

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd recoverable, ug/L (01007)
OCT													
29...	0925	80020	9.8	750	--	--	8.3	382	16.5	K5000	--	E1	17.5
MAR													
04...	0900	80020	40	746	12.3	104	7.8	321	7.0	78	120	<2	11.1
MAY													
28...	0930	80020	11	748	9.2	94	7.6	361	15.5	490	390	<2	15.6
JUL													
22...	0915	80020	3.4	745	6.4	74	7.4	346	21.0	K900	--	<2	18.6

Date	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recoverable, ug/L (01034)	Copper, water, unfltrd recoverable, ug/L (01042)	Cyanide water unfltrd mg/L (00720)	Lead, water, unfltrd recoverable, ug/L (01051)	Mercury water, unfltrd recoverable, ug/L (71900)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, unfltrd recoverable, ug/L (01092)	Oil and grease, water, unfltrd freon extract mg/L (00556)	1,2-Diphenylhydrazine, water, unfltrd ug/L (82626)	2,4,6-Trichlorophenol, water, unfltrd ug/L (34621)
OCT													
29...	<0.2	<0.8	E.9	<0.01	<1	E.01	<2.0	<3	<0.3	E20	<7	<1	<3
MAR													
04...	<0.2	<0.8	<1.0	<0.01	<1	<0.02	<2.0	<3	<0.3	<20	<7	--	--
MAY													
28...	<0.2	<0.8	6.7	<0.01	<1	<0.02	<2.0	<3	<0.3	E20	17	<1	<3
JUL													
22...	<0.2	<0.8	<1.0	<0.01	<1	<0.02	<2.0	<3	<0.3	<20	<7	--	--

Date	2,4-Dichlorophenol, water, unfltrd ug/L (34601)	2,4-Dimethylphenol, water, unfltrd ug/L (34606)	2,4-Dinitrophenol, water, unfltrd ug/L (34616)	2,4-Dinitrotoluene water unfltrd ug/L (34611)	2,6-Dinitrotoluene water unfltrd ug/L (34626)	2-Chloronaphthalene, water, unfltrd ug/L (34581)	2-chlorophenol, water, unfltrd ug/L (34586)	2-Methyl-4,6-dinitrophenol, wat unf ug/L (34657)	2-nitrophenol, water unfltrd ug/L (34591)	3,3-Di'chlorobenzidine, water, unfltrd ug/L (34631)	4-Bromophenyl phenyl ether, wat unf ug/L (34636)	4-Chloro-3-methylphenol, wat unf ug/L (34452)	4-Chlorophenyl phenyl ether, wat unf ug/L (34641)
OCT													
29...	<2	<2.0	<3	<3	<2	<2	<2	<2	<1	<0.9	<2	<3	<2
MAR													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
28...	<2	<2.0	<3	<3	<2	<2	<2	<2	<1	<0.9	<2	<3	<2
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	4-Nitrophenol, water, unfltrd ug/L (34646)	9H-Fluorene, water, unfltrd ug/L (34381)	Acenaphthene, water, unfltrd ug/L (34205)	Acenaphthylene, water, unfltrd ug/L (34200)	Anthracene, water, unfltrd ug/L (34220)	Benzidine, water, unfltrd ug/L (39120)	Benzo[a]anthracene, water, unfltrd ug/L (34526)	Benzo[a]pyrene, water, unfltrd ug/L (34247)	Benzo[b]fluoranthene water unfltrd ug/L (34230)	Benzo[g,h,i]perylene, water, unfltrd ug/L (34521)	Benzo[k]fluoranthene water unfltrd ug/L (34242)	Benzyl n-butyl phthalate, water, unfltrd ug/L (34292)	Bis(2-chloroethoxy) methane water unfltrd ug/L (34278)
OCT													
29...	<4	<2	<2	<2	<2	<1,000	<2	<1	<2	<2	<1	<2	<3
MAR													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
28...	<4	<2	<2	<2	<2	<1,000	<2	<1	<2	<2	<1	<2	<3
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

E--Estimated
K--Results based on non-ideal colony count.

03600085 CARTERS CREEK AT PETTY LANE NEAR CARTERS CREEK, TN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Bis(2-chloroethyl) ether, water, unfltrd ug/L (34273)	Bis(2-chloroisopropyl) ether, wat unf ug/L (34283)	Bis(2-ethylhexyl) phthalate, wat unf ug/L (39100)	Chrysene, water, unfltrd ug/L (34320)	Dibenzo-[a,h]-anthracene, wat unf ug/L (34556)	Diethyl phthalate, water, unfltrd ug/L (34336)	Dimethyl phthalate, water, unfltrd ug/L (34341)	Di-n-butyl phthalate, water, unfltrd ug/L (39110)	Di-n-octyl phthalate, water, unfltrd ug/L (34596)	Fluoranthene water unfltrd ug/L (34376)	Hexachlorobenzene water unfltrd ug/L (39700)	Hexachlorocyclopentadiene, wat unf ug/L (34386)	Indeno-[1,2,-3-cd]-pyrene, water, unfltrd ug/L (34403)
OCT													
29...	<2	<2	<2	<3	<1	<2	<1	<2	<2	<2	<2	<1	<3
MAR													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
28...	<2	<2	<2	<3	<1	<2	<1	<2	<2	<2	<2	<1	<3
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Isophorone water unfltrd ug/L (34408)	Nitrobenzene water unfltrd ug/L (34447)	N-NItroso-di-methylamine, wat unf ug/L (34438)	N-NItroso-di-n-propylamine, wat unf ug/L (34428)	N-NItroso-di-phenylamine, wat unf ug/L (34433)	Pentachlorophenol, water, unfltrd ug/L (39032)	Phenanthrene, water, unfltrd ug/L (34461)	1,2,4-Trichlorobenzene water unfltrd ug/L (34551)	1,2-Dichlorobenzene water unfltrd ug/L (34536)	1,3-Dichlorobenzene water unfltrd ug/L (34566)	1,4-Dichlorobenzene water unfltrd ug/L (34571)	Hexachlorobutadiene, water, unfltrd ug/L (39702)	Hexachloroethane, water, unfltrd ug/L (34396)
OCT													
29...	<2	<1	<3	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2
MAR													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
28...	<2	<1	<3	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Naphthalene, water, unfltrd ug/L (34696)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
OCT				
29...	<2	77	11	0.29
MAR				
04...	--	91	7	0.75
MAY				
28...	<2	88	5	0.14
JUL				
22...	--	90	7	0.06

03600086 CARTERS CREEK TRIBUTARY NEAR CARTERS CREEK, TN

LOCATION.--Lat 35°43'34", long 86°59'19", Maury County, Hydrologic Unit 06040003, at culvert on Carters Creek Road, 0.7 mile north of Carters Creek.

DRAINAGE AREA.--2.94 mi^2.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd recoverable, ug/L (01007)
OCT													
29...	1020	80020	8.3	750	--	--	7.8	577	18.0	K11000	--	<2	25.5
MAR													
04...	0950	80020	7.6	746	12.1	107	7.9	693	9.0	K13	15	<2	13.5
MAY													
28...	1015	80020	2.0	748	8.5	91	7.6	625	17.5	36	42	<2	15.7
JUL													
22...	1000	80020	2.2	745	6.3	74	7.3	388	22.0	2,100	--	E1	12.0

Date	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recoverable, ug/L (01034)	Copper, water, unfltrd recoverable, ug/L (01042)	Cyanide water unfltrd mg/L (00720)	Lead, water, unfltrd recoverable, ug/L (01051)	Mercury water, unfltrd recoverable, ug/L (71900)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, unfltrd recoverable, ug/L (01092)	Oil and grease, water, unfltrd freon extract mg/L (00556)	1,2-Diphenylhydrazine, water, unfltrd ug/L (82626)	2,4,6-Trichlorophenol, water, unfltrd ug/L (34621)
OCT													
29...	<0.2	E.6	1.4	<0.01	<1	<0.02	E1.1	<3	<0.3	<20	<7	<1	<3
MAR													
04...	<0.2	<0.8	E.7	<0.01	<1	<0.02	<2.0	<3	<0.3	<20	<7	--	--
MAY													
28...	<0.2	<0.8	<1.0	<0.01	<1	<0.02	<2.0	<3	<0.3	<20	<7	<1	<3
JUL													
22...	<0.2	<0.8	<1.0	<0.01	<1	<0.02	<2.0	<3	<0.3	<20	<7	--	--

Date	2,4-Dichlorophenol, water, unfltrd ug/L (34601)	2,4-Dimethylphenol, water, unfltrd ug/L (34606)	2,4-Dinitrophenol, water, unfltrd ug/L (34616)	2,4-Dinitrotoluene water unfltrd ug/L (34611)	2,6-Dinitrotoluene water unfltrd ug/L (34626)	2-Chloronaphthalene, water, unfltrd ug/L (34581)	2-chlorophenol, water, unfltrd ug/L (34586)	2-Methyl-4,6-dinitrophenol, wat unf ug/L (34657)	2-nitrophenol, water unfltrd ug/L (34591)	3,3-Di'chlorobenzidine, water, unfltrd ug/L (34631)	4-Bromophenyl phenyl ether, wat unf ug/L (34636)	4-Chloro-3-methylphenol, wat unf ug/L (34452)	4-Chlorophenyl phenyl ether, wat unf ug/L (34641)
OCT													
29...	<2	<2.0	<3	<3	<2	<2	<2	<2	<1	<0.9	<2	<3	<2
MAR													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
28...	<2	<2.0	<3	<3	<2	<2	<2	<2	<1	<0.9	<2	<3	<2
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	4-Nitrophenol, water, unfltrd ug/L (34646)	9H-Fluorene, water, unfltrd ug/L (34381)	Acenaphthene, water, unfltrd ug/L (34205)	Acenaphthylene, water, unfltrd ug/L (34200)	Anthracene, water, unfltrd ug/L (34220)	Benzidine, water, unfltrd ug/L (39120)	Benzo-[a]-anthracene, water, unfltrd ug/L (34526)	Benzo-[a]-pyrene, water, unfltrd ug/L (34247)	Benzo-[b]-fluoranthene water unfltrd ug/L (34230)	Benzo-[g,h,i]-perylene, water, unfltrd ug/L (34521)	Benzo-[k]-fluoranthene water unfltrd ug/L (34242)	Benzyl n-butyl phthalate, water, unfltrd ug/L (34292)	Bis(2-chloroethoxy) methane water unfltrd ug/L (34278)
OCT													
29...	<4	<2	<2	<2	<2	<1,000	<2	<1	<2	<2	<1	<2	<3
MAR													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
28...	<4	<2	<2	<2	<2	<1,000	<2	<1	<2	<2	<1	<2	<3
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

K--Results based on non-ideal colony count.
E--Estimated

03600086 CARTERS CREEK TRIB NEAR CARTERS CREEK, TN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Bis(2-chloroethyl) ether, water, unfltrd ug/L (34273)	Bis(2-chloroisopropyl) ether, wat unf ug/L (34283)	Bis(2-ethylhexyl) phthalate, wat unf ug/L (39100)	Chrysene, water, unfltrd ug/L (34320)	Dibenzo-[a,h]-anthracene, wat unf ug/L (34556)	Diethyl phthalate, water, unfltrd ug/L (34336)	Dimethyl phthalate, water, unfltrd ug/L (34341)	Di-n-butyl phthalate, water, unfltrd ug/L (39110)	Di-n-octyl phthalate, water, unfltrd ug/L (34596)	Fluoranthene water unfltrd ug/L (34376)	Hexachlorobenzene water unfltrd ug/L (39700)	Hexachlorocyclopentadiene, wat unf ug/L (34386)	Indeno-[1,2,-3-cd]-pyrene, water, unfltrd ug/L (34403)
OCT													
29...	<2	<2	<2	<3	<1	<2	<1	<2	<2	<2	<2	<1	<3
MAR													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
28...	<2	<2	<2	<3	<1	<2	<1	<2	<2	<2	<2	<1	<3
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Isophorone water unfltrd ug/L (34408)	Nitrobenzene water unfltrd ug/L (34447)	N-NItroso-dimethylamine, wat unf ug/L (34438)	N-NItroso-di-n-propylamine, wat unf ug/L (34428)	N-NItroso-diphenylamine, wat unf ug/L (34433)	Pentachlorophenol, water, unfltrd ug/L (39032)	Phenanthrene, water, unfltrd ug/L (34461)	1,2,4-Trichlorobenzene water unfltrd ug/L (34551)	1,2-Dichlorobenzene water unfltrd ug/L (34536)	1,3-Dichlorobenzene water unfltrd ug/L (34566)	1,4-Dichlorobenzene water unfltrd ug/L (34571)	Hexachlorobutadiene, water, unfltrd ug/L (39702)	Hexachloroethane, water, unfltrd ug/L (34396)
OCT													
29...	<2	<1	<3	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2
MAR													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
28...	<2	<1	<3	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Naphthalene, water, unfltrd ug/L (34696)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
OCT				
29...	<2	94	48	1.1
MAR				
04...	--	91	3	0.06
MAY				
28...	<2	78	3	0.02
JUL				
22...	--	12	51	0.30

03600088 CARTERS CREEK AT BUTLER ROAD AT CARTERS CREEK, TN

LOCATION.--Lat 35°43'02", long 86°59'45", Maury County, Hydrologic Unit 06040003, on left bank at end of Butler Road bridge, 0.1 mi west of Carters Creek, 0.3 mi upstream from Terrell Branch, 3.7 mi upstream from Rutherford Creek, and at mile 3.7.

DRAINAGE AREA.--20.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1986 to current year. Occasional low-flow measurements, water year 1986.

REVISED RECORD.--WDR TN-97-1: 1992-96 (M): 1992-96(P).

GAGE.--Data collection platform, crest-stage gage and concrete weir. Datum of gage is 605.94 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuation caused by industrial development upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 14	1600	1,590	9.96	May 7	1230	*2,700	*13.74
Feb 15	1600	2,560	13.25	Jun 7	0115	1,910	11.04
Feb 22	0400	2,100	11.67	Jun 16	1930	1,410	9.38
May 5	0645	2,230	12.11	Aug 6	1645	2,150	11.83
May 5	1900	1,820	10.73	Sep 22	0800	2,520	13.11
May 6	0830	974	7.84				

Minimum discharge, 1.2 ft^3/s, Sept. 13, 14, 20, 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	17	10	31	27	70	20	7.2	8.2	28	8.2	1.5
2	21	14	9.2	30	29	59	18	9.4	8.0	23	9.5	3.8
3	14	14	8.4	30	77	49	16	6.9	16	14	11	13
4	24	17	53	28	187	43	15	5.9	10	11	6.9	14
5	36	123	115	27	76	38	20	657	7.5	8.9	47	4.5
6	25	92	60	24	61	37	22	382	59	8.6	333	3.2
7	41	66	41	23	58	32	64	848	514	13	83	2.6
8	38	46	32	23	49	30	43	210	105	9.4	44	2.2
9	23	35	27	22	44	27	33	119	70	9.1	30	1.9
10	160	81	49	19	44	24	30	83	55	12	21	1.7
11	148	110	77	16	42	23	26	100	52	9.4	14	1.5
12	112	63	56	14	40	21	23	66	45	6.3	11	1.4
13	88	44	94	14	38	20	20	50	35	5.2	16	1.2
14	56	36	88	13	704	18	17	40	29	4.5	21	13
15	39	89	64	12	1,200	17	15	34	31	4.1	12	2.9
16	27	98	51	13	565	16	14	30	139	3.6	9.2	1.9
17	23	65	44	11	207	15	19	46	89	3.1	7.3	1.6
18	20	48	39	10	126	15	14	45	55	2.8	6.0	1.6
19	17	42	128	11	98	71	12	37	52	2.6	5.0	1.4
20	17	33	103	11	119	40	11	33	46	2.4	4.4	1.4
21	14	28	65	13	111	30	33	32	37	7.1	3.9	2.7
22	11	24	50	12	578	26	17	29	30	7.3	3.5	764
23	8.5	21	40	10	215	23	13	25	25	5.3	3.3	94
24	7.9	19	201	9.5	124	20	12	21	20	3.6	2.8	54
25	6.2	20	90	10	89	18	16	20	17	3.1	2.4	38
26	6.1	19	66	9.9	85	21	12	19	14	2.7	2.2	29
27	9.0	16	53	9.4	104	17	9.9	15	16	2.5	6.2	24
28	8.2	15	44	9.5	86	16	8.6	13	12	7.8	2.7	19
29	27	13	37	31	---	38	7.7	12	10	19	2.0	15
30	28	12	33	37	---	27	8.1	10	22	8.5	1.9	13
31	20	---	30	30	---	23	---	9.2	---	6.8	1.9	---
TOTAL	1,091.9	1,320	1,857.6	563.3	5,183	924	589.3	3,014.6	1,628.7	254.7	732.3	1,129.0
MEAN	35.2	44.0	59.9	18.2	185	29.8	19.6	97.2	54.3	8.22	23.6	37.6
MAX	160	123	201	37	1,200	71	64	848	514	28	333	764
MIN	6.1	12	8.4	9.4	27	15	7.7	5.9	7.5	2.4	1.9	1.2
CFSM	1.75	2.19	2.98	0.90	9.21	1.48	0.98	4.84	2.70	0.41	1.18	1.87
IN.	2.02	2.44	3.44	1.04	9.59	1.71	1.09	5.58	3.01	0.47	1.36	2.09

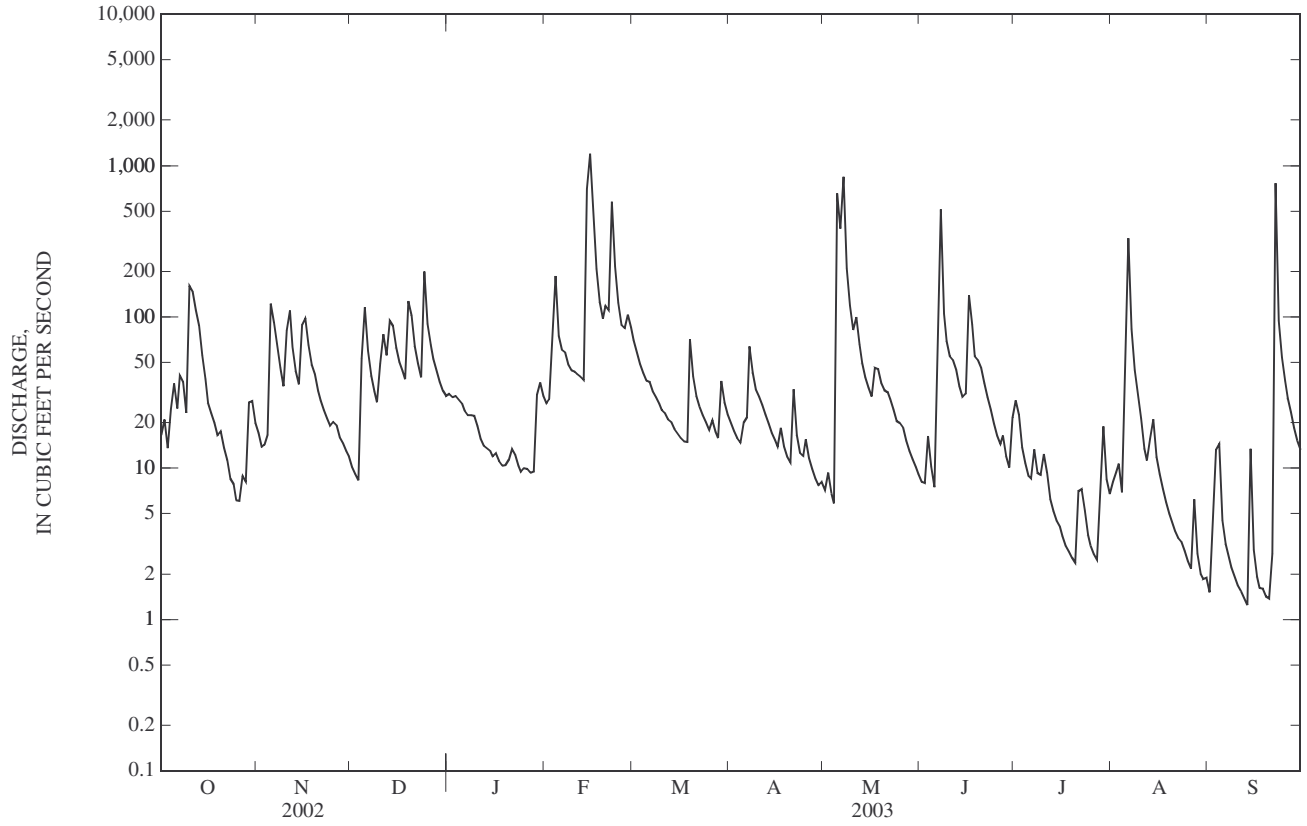
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2003, BY WATER YEAR (WY)

MEAN	10.0	29.0	55.4	58.6	77.8	66.2	36.3	32.8	18.3	9.28	5.21	7.83
MAX	44.8	64.7	126	119	185	138	98.7	97.2	54.3	45.5	23.6	37.6
(WY)	(1990)	(1989)	(1991)	(1999)	(2003)	(1994)	(1994)	(2003)	(2003)	(1989)	(2003)	(2003)
MIN	0.29	1.35	9.79	18.2	20.8	20.5	13.9	3.11	0.51	0.54	0.47	0.64
(WY)	(2001)	(1999)	(2000)	(2003)	(1995)	(1988)	(1992)	(1988)	(1988)	(1988)	(1987)	(1999)

03600088 CARTERS CREEK AT BUTLER ROAD AT CARTERS CREEK, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1987 - 2003	
ANNUAL TOTAL	14,011.32		18,288.4			
ANNUAL MEAN	38.4		50.1		33.7	
HIGHEST ANNUAL MEAN					50.1	2003
LOWEST ANNUAL MEAN					17.4	1988
HIGHEST DAILY MEAN	963	Mar 17	1,200	Feb 15	1,430	Feb 3, 1990
LOWEST DAILY MEAN	0.22	Aug 7	1.2	Sep 13	0.12	Aug 15, 1987
ANNUAL SEVEN-DAY MINIMUM	0.22	Aug 7	1.8	Sep 7	0.15	Jun 25, 1988
MAXIMUM PEAK FLOW			2,700	May 7	3,300	May 3, 1993
MAXIMUM PEAK STAGE			13.74	May 7	15.90	May 3, 1993
INSTANTANEOUS LOW FLOW			a1.2	Sep 13	b0.11	Aug 15, 1987
ANNUAL RUNOFF (CFSM)	1.91		2.49		1.68	
ANNUAL RUNOFF (INCHES)	25.93		33.85		22.77	
10 PERCENT EXCEEDS	88		93		70	
50 PERCENT EXCEEDS	16		21		13	
90 PERCENT EXCEEDS	0.66		4.0		0.78	

a Also occurred Sept. 14, 20, 21.
b Also occurred Aug. 16, 1987, June 26, 1988.



03600088 CARTERS CREEK AT BUTLER ROAD AT CARTERS CREEK, TN—Continued

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd recoverable, ug/L (01007)
OCT													
29...	1110	80020	29	750	--	--	7.8	390	17.5	K6800	--	<2	20.7
MAR													
04...	1020	80020	46	746	12.5	109	8.0	380	8.5	51	K61	<2	11.9
MAY													
28...	1045	80020	13	748	9.9	103	7.8	404	16.5	240	260	<2	15.8
JUL													
22...	1045	80020	6.6	745	7.1	82	7.6	359	21.5	790	--	<2	16.1

Date	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recoverable, ug/L (01034)	Copper, water, unfltrd recoverable, ug/L (01042)	Cyanide water unfltrd mg/L (00720)	Lead, water, unfltrd recoverable, ug/L (01051)	Mercury water, unfltrd recoverable, ug/L (71900)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, unfltrd recoverable, ug/L (01092)	Oil and grease, water, unfltrd freon extract mg/L (00556)	1,2-Diphenylhydrazine, water, unfltrd ug/L (82626)	2,4,6-Trichlorophenol, water, unfltrd ug/L (34621)
OCT													
29...	<0.2	<0.8	E.6	<0.01	<1	E.01	<2.0	<3	<0.3	<20	<7	<1	<3
MAR													
04...	<0.2	<0.8	<1.0	<0.01	<1	<0.02	<2.0	<3	<0.3	<20	<7	--	--
MAY													
28...	<0.2	<0.8	<1.0	<0.01	<1	--	<2.0	<3	<0.3	<20	<7	<1	<3
JUL													
22...	<0.2	<0.8	<1.0	<0.01	<1	<0.02	<2.0	<3	<0.3	10	<7	--	--

Date	2,4-Dichlorophenol, water, unfltrd ug/L (34601)	2,4-Dimethylphenol, water, unfltrd ug/L (34606)	2,4-Dinitrophenol, water, unfltrd ug/L (34616)	2,4-Dinitrotoluene water unfltrd ug/L (34611)	2,6-Dinitrotoluene water unfltrd ug/L (34626)	2-Chloronaphthalene, water, unfltrd ug/L (34581)	2-chlorophenol, water, unfltrd ug/L (34586)	2-Methyl-4,6-dinitrophenol, wat unf ug/L (34657)	2-nitrophenol, water unfltrd ug/L (34591)	3,3-Di'chlorobenzidine, water, unfltrd ug/L (34631)	4-Bromophenyl phenyl ether, wat unf ug/L (34636)	4-Chloro-3-methylphenol, wat unf ug/L (34452)	4-Chlorophenyl phenyl ether, wat unf ug/L (34641)
OCT													
29...	<2	<2.0	<3	<3	<2	<2	<2	<2	<1	<0.9	<2	<3	<2
MAR													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
28...	<2	<2.0	<3	<3	<2	<2	<2	<2	<1	<0.9	<2	<3	<2
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	4-Nitrophenol, water, unfltrd ug/L (34646)	9H-Fluorene, water, unfltrd ug/L (34381)	Acenaphthene, water, unfltrd ug/L (34205)	Acenaphthylene, water, unfltrd ug/L (34200)	Anthracene, water, unfltrd ug/L (34220)	Benzidine, water, unfltrd ug/L (39120)	Benzo[a]anthracene, water, unfltrd ug/L (34526)	Benzo[a]pyrene, water, unfltrd ug/L (34247)	Benzo[b]fluoranthene water unfltrd ug/L (34230)	Benzo[g,h,i]perylene, water, unfltrd ug/L (34521)	Benzo[k]fluoranthene water unfltrd ug/L (34242)	Benzyl n-butyl phthalate, water, unfltrd ug/L (34292)	Bis(2-chloroethoxy) methane water unfltrd ug/L (34278)
OCT													
29...	<4	<2	<2	<2	<2	<1,000	<2	<1	<2	<2	<1	<2	<3
MAR													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
28...	<4	<2	<2	<2	<2	<1,000	<2	<1	<2	<2	<1	<2	<3
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

K--Results based on non-ideal colony count.
E--Estimated

03600088 CARTERS CK AT BUTLER RD AT CARTERS CK, TN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Bis(2-chloro-ethyl) ether, water, unfltrd ug/L (34273)	Bis(2-chloro-iso-propyl) ether, wat unf ug/L (34283)	Bis(2-ethyl-hexyl) phthal-ate, wat unf ug/L (39100)	Chrys-ene, water, unfltrd ug/L (34320)	Di-benzo-[a,h]-anthra-cene, wat unf ug/L (34556)	Di-ethyl phthal-ate, water, unfltrd ug/L (34336)	Di-methyl phthal-ate, water, unfltrd ug/L (34341)	Di-n-butyl phthal-ate, water, unfltrd ug/L (39110)	Di-n-octyl phthal-ate, water, unfltrd ug/L (34596)	Fluor-anthene water unfltrd ug/L (34376)	Hexa-chloro-benzene water unfltrd ug/L (39700)	Hexa-chloro-cyclo-penta-diene, wat unf ug/L (34386)	Indeno-[1,2,-3-cd]-pyrene, water, unfltrd ug/L (34403)
OCT													
29...	<2	<2	<2	<3	<1	<2	<1	<2	<2	<2	<2	<1	<3
MAR													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
28...	<2	<2	<2	<3	<1	<2	<1	<2	<2	<2	<2	<1	<3
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Iso-phorone water unfltrd ug/L (34408)	Nitro-benzene water unfltrd ug/L (34447)	N-NItroso-di-methyl-amine, wat unf ug/L (34438)	N-NItroso-di-n-propyl-amine, wat unf ug/L (34428)	N-NItroso-di-phenyl-amine, wat unf ug/L (34433)	Penta-chloro-phenol, water, unfltrd ug/L (39032)	Phenan-threne, water, unfltrd ug/L (34461)	1,2,4-Tri-chloro-benzene water unfltrd ug/L (34551)	1,2-Di-chloro-benzene water unfltrd ug/L (34536)	1,3-Di-chloro-benzene water unfltrd ug/L (34566)	1,4-Di-chloro-benzene water unfltrd ug/L (34571)	Hexa-chloro-buta-diene, water, unfltrd ug/L (39702)	Hexa-chloro-ethane, water, unfltrd ug/L (34396)
OCT													
29...	<2	<1	<3	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2
MAR													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
28...	<2	<1	<3	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Naphth-alene, water, unfltrd ug/L (34696)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment load, tons/d (80155)
OCT				
29...	<2	87	21	1.6
MAR				
04...	--	89	6	0.74
MAY				
28...	<2	86	2	0.07
JUL				
22...	--	76	7	0.13

03601990 DUCK RIVER AT HIGHWAY 100 AT CENTERVILLE, TN

LOCATION.--Lat 35°47'03", long 87°27'36", Hickman County, Hydrologic Unit 06040003, on downstream right bank side of bridge on US Highway 48/100, at Defeated Creek, 0.43 mi northeast of public square in Centerville, 3.5 mi downstream from Swan Creek and at mile 72.6.

DRAINAGE AREA.--2,048 mi^2.

PERIOD OF RECORD.--April 1919 to September 1955, published as "at Centerville." May 2001 to current year.

GAGE.--Data collection platform. Datum of gage is 447.76 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good except for discharge below 1,500 ft^3/s, 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.--Flood of Feb. 14, 1948, (from graph through bi-hourly gage readings) at site downstream, 03602000 Duck River at Centerville, TN, 37.58 ft (discharge 97,700 ft/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 26	0730	20,900	18.03	May 8	2300	*54,400	*33.10
Feb 16	1930	51,800	32.01	Sep 23	1330	27,000	20.97
Feb 24	1000	31,900	23.34				

Minimum discharge, 445 ft^3/s, Sept. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,190	2,790	1,230	3,740	4,370	15,600	2,320	2,090	1,510	1,850	1,310	556
2	1,910	2,340	1,140	3,560	3,510	11,400	2,050	1,750	1,380	2,380	1,260	566
3	1,680	2,020	998	3,320	3,130	9,000	1,840	1,780	1,380	3,980	1,330	1,350
4	1,490	1,860	1,060	2,870	5,670	7,560	1,700	1,830	1,360	3,230	1,140	1,680
5	1,560	2,050	3,230	2,810	8,460	6,210	1,790	4,710	1,260	2,180	1,190	1,160
6	1,680	7,630	8,880	2,700	7,720	4,640	2,670	17,000	1,430	1,650	2,930	1,020
7	3,610	13,900	9,160	2,440	5,620	3,980	6,890	39,200	4,330	1,490	5,320	1,220
8	6,080	9,580	5,740	2,170	5,940	3,560	9,910	53,200	7,640	1,380	3,200	976
9	4,920	5,920	4,500	2,060	5,950	3,030	8,890	53,200	4,560	1,800	2,300	793
10	3,810	4,070	3,840	1,930	4,980	2,630	7,990	51,000	3,170	1,810	1,650	664
11	6,280	5,730	7,530	1,790	4,460	2,390	6,190	48,700	3,230	1,420	1,280	593
12	6,700	13,800	17,800	1,640	4,240	2,210	5,070	41,300	3,400	1,220	1,060	555
13	4,680	13,700	15,200	1,450	3,890	2,070	4,350	16,100	3,500	1,940	953	538
14	3,420	7,470	11,700	1,310	5,970	1,990	3,550	7,870	3,110	3,610	1,010	518
15	2,740	5,060	13,600	1,220	34,700	1,850	3,040	6,040	2,850	2,250	953	524
16	2,360	6,680	9,980	1,170	50,700	1,740	2,670	5,040	3,740	1,550	850	527
17	2,060	9,500	7,090	1,160	50,100	1,660	2,490	4,650	5,570	1,240	778	503
18	1,780	7,380	5,650	1,080	45,900	1,600	2,240	5,720	4,100	1,140	746	491
19	1,610	5,150	4,930	1,050	36,800	2,010	1,940	6,150	3,630	951	702	487
20	1,490	4,120	6,480	1,040	15,200	4,910	1,750	5,260	3,870	866	643	467
21	1,380	3,470	7,660	1,030	11,800	7,410	1,930	4,710	3,670	791	612	469
22	1,250	2,990	6,670	1,080	21,300	4,970	1,990	4,540	2,860	804	612	6,720
23	1,140	2,600	5,190	1,070	31,200	3,700	1,700	4,470	2,220	877	614	24,800
24	1,060	2,260	7,560	1,010	31,400	3,080	1,500	4,130	1,860	819	602	10,100
25	1,010	2,080	16,100	1,000	22,400	2,690	1,480	3,650	1,590	863	562	4,560
26	971	1,920	19,200	977	12,900	2,530	1,480	3,810	1,400	991	546	2,870
27	935	1,780	10,800	931	12,100	2,340	1,420	3,390	1,330	946	572	2,130
28	902	1,660	7,000	904	15,800	2,160	1,400	2,680	1,250	941	548	1,680
29	896	1,460	5,540	1,000	---	2,250	1,470	2,370	1,170	1,340	545	1,380
30	1,560	1,220	4,650	1,580	---	2,520	2,900	2,120	1,440	1,380	528	1,210
31	2,840	---	4,050	4,390	---	2,470	---	1,780	---	1,270	573	---
TOTAL	75,994	152,190	234,158	55,482	466,210	126,160	96,610	410,240	83,810	48,959	36,919	71,107
MEAN	2,451	5,073	7,553	1,790	16,650	4,070	3,220	13,230	2,794	1,579	1,191	2,370
MAX	6,700	13,900	19,200	4,390	50,700	15,600	9,910	53,200	7,640	3,980	5,320	24,800
MIN	896	1,220	998	904	3,130	1,600	1,400	1,750	1,170	791	528	467
(†)	-600	-4,800	-1,900	2,100	2,200	3,000	5,700	3,000	-400	100	-1,600	-300
MEAN(‡)	2,432	4,913	7,492	1,857	16,730	4,166	3,410	13,330	2,780	1,583	1,139	2,360
CFSM(†)	1.19	2.40	3.66	0.91	8.17	2.03	1.67	6.51	1.36	0.77	0.56	1.15
IN. (‡)	1.37	2.68	4.22	1.05	8.51	2.35	1.86	7.50	1.51	0.89	0.64	1.29

CAL YR 2002 MEAN(‡) 4,514 CFSM(‡) 2.20 IN.(‡) 29.92
WTR YR 2003 MEAN(‡) 5,108 CFSM(‡) 2.49 IN.(‡) 33.85

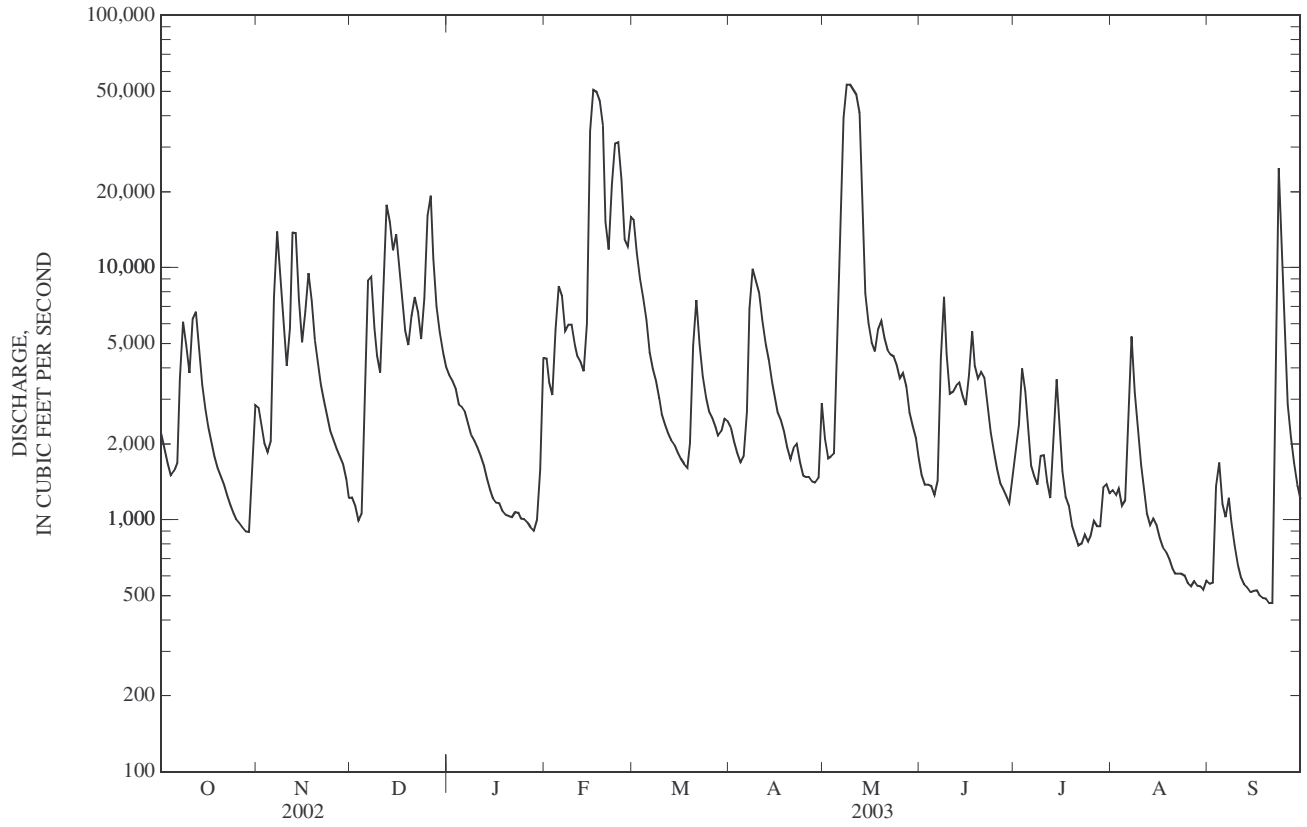
(†) Change in contents, in cfs-days in Normandy Lake.
(‡) Adjusted for chage in content.
NOTE.--Contents (cfs-days) for adjustments furnished by Tennessee Valley Authority.

03601990 DUCK RIVER AT HIGHWAY 100 AT CENTERVILLE, TN—Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)												
MEAN	2,267	3,838	7,114	6,658	9,900	7,409	4,557	6,141	1,660	1,089	1,253	1,440
MAX	2,451	5,073	7,553	11,530	16,650	10,750	5,893	13,230	2,794	1,579	1,984	2,370
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2002)	(2002)	(2003)	(2003)	(2003)	(2001)	(2003)
MIN	2,083	2,602	6,674	1,790	3,150	4,070	3,220	1,077	758	802	584	737
(WY)	(2002)	(2002)	(2002)	(2003)	(2002)	(2003)	(2003)	(2001)	(2002)	(2002)	(2002)	(2001)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	1,647,399		1,857,839			
ANNUAL MEAN	4,513		5,090		4,647	
HIGHEST ANNUAL MEAN					5,090	2003
LOWEST ANNUAL MEAN					4,204	2002
HIGHEST DAILY MEAN	53,100	Jan 26	53,200	May 8	53,200	May 8, 2003
LOWEST DAILY MEAN	424	Sep 14	467	Sep 20	424	Sep 14, 2002
ANNUAL SEVEN-DAY MINIMUM	440	Sep 9	495	Sep 15	440	Sep 9, 2002
MAXIMUM PEAK FLOW			54,400	May 8	54,400	May 8, 2003
MAXIMUM PEAK STAGE			33.10	May 8	33.10	May 8, 2003
INSTANTANEOUS LOW FLOW			445	Sep 21	407	Sep 14, 2002
10 PERCENT EXCEEDS	9,590		10,000		9,500	
50 PERCENT EXCEEDS	1,520		2,300		1,740	
90 PERCENT EXCEEDS	573		873		602	



03602219 PINEY RIVER AT CEDAR HILL, TN

LOCATION.--Lat 35°59'43", long 87°26'22", Dickson County, Hydrologic Unit 06040003, on right bank 300 ft upstream of Interstate Highway 40 bridge, 0.2 mi southeast of Cedar Hill, 0.5 mi upstream from Double Branch, and at mile 22.

DRAINAGE AREA.--46.6 mi^2.

PERIOD OF RECORD.--October 1987 to current year, discharge for stage of 7.00 ft and below only.

GAGE.--Data collection platform. Datum of gage is 552.20 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good. The City of Dickson diverts water for municipal water supply at confluence of West Piney River, 1.6 mi upstream from gage. 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, not determined; maximum gage height, 19.78 ft, May 27, 1991; minimum discharge, 6.8 ft^3/s, Oct. 2, 3, 4, 5, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; maximum gage height, 12.05 ft, May 5; minimum discharge, 15 ft^3/s, Aug. 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	32	40	92	63	149	93	133	34	25	33	19
2	56	31	40	87	61	136	87	112	34	25	50	24
3	45	32	37	89	65	122	80	90	36	24	83	---
4	51	32	68	84	101	113	76	79	33	22	41	129
5	49	113	189	82	85	105	99	---	32	22	40	68
6	42	145	129	75	82	98	98	---	36	22	46	52
7	40	100	102	68	80	90	245	---	41	21	37	44
8	35	79	87	66	72	84	195	---	34	21	31	39
9	33	68	77	64	70	79	157	337	32	22	28	36
10	132	109	74	59	70	74	145	206	33	22	27	33
11	201	179	75	55	67	70	128	---	45	22	24	31
12	122	112	68	52	65	67	110	220	40	21	23	29
13	84	89	104	50	62	65	96	152	34	27	36	28
14	66	77	122	48	226	62	86	120	34	32	34	26
15	62	130	105	45	327	60	77	101	33	21	24	25
16	53	175	93	46	294	59	73	86	34	22	22	24
17	46	131	83	44	293	58	89	84	35	20	21	24
18	42	105	75	42	263	56	75	76	31	19	20	23
19	40	89	138	42	224	92	67	68	44	19	19	23
20	40	78	240	41	271	85	63	60	37	18	19	22
21	37	72	183	42	269	76	128	57	32	18	18	25
22	34	65	138	41	---	71	90	53	29	19	18	---
23	32	60	111	39	---	68	78	49	28	18	17	154
24	31	56	134	38	370	65	74	46	27	17	17	82
25	30	52	123	37	262	64	77	46	26	17	17	61
26	30	50	102	37	221	129	71	44	26	17	16	52
27	29	47	94	37	194	109	65	41	27	16	16	45
28	28	44	87	37	168	101	60	39	25	22	17	41
29	42	42	81	65	---	121	162	38	24	66	16	37
30	37	41	75	67	---	109	176	36	24	25	17	35
31	34	---	73	65	---	100	---	35	---	58	26	---
MEAN	53.4	81.2	102	56.0	---	88.3	104	---	32.7	23.9	27.5	---
MAX	201	179	240	92	---	149	245	---	45	66	83	---
MIN	28	31	37	37	---	56	60	---	24	16	16	---

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03602500 PINEY RIVER AT VERNON, TN

LOCATION.--Lat 35°52'17", long 87°30'00", Hickman County, Hydrologic Unit 06040003, on left bank upstream from county highway bridge, 375 ft upstream from Pretty Creek, 0.2 mi northwest of Vernon, 2.3 mi downstream from Mill Creek, 6.5 mi north of Centerville, and at mile 8.3.

DRAINAGE AREA.--193 mi^2.

PERIOD OF RECORD.--July 1925 to December 1993. January 1994 to October 2000, crest-stage partial record station. November 2000 to current year.

REVISED RECORDS.--WSP 758: 1927(M). WSP 823: Drainage area. WSP 1306: Drainage area at site used Feb. 9, 1931, to May 10, 1934. WSP 1436: 1926(M), 1927, 1929, 1930-31(M), 1932, 1934(M).

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 461.72 ft above NGVD of 1929. Prior to May 11, 1934, nonrecording gage; July 3, 1925, to Feb. 8, 1931, at site 350 ft upstream at datum 3.17 ft higher; Feb. 9, 1931, to May 10, 1934, at site 0.4 mi downstream at datum 0.40 ft higher. May 11, 1934, to Sept. 30, 1970, water-stage recorder at site 350 ft upstream; prior to June 29, 1965, at datum 3.17 ft higher, and 2.17 ft higher thereafter.

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.--Flood of March 1897 reached a stage of 20.7 ft, present site and datum, discharge, 37,000 ft^3/s, from reports by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 14	2145	9,300	12.68	May 6	0730	6,870	11.35
Feb 15	1515	13,800	14.78	May 7	1600	*17,100	*16.02
Feb 22	1615	7,260	11.58	Sep 3	1115	7,240	11.57
May 5	1000	14,900	15.23	Sep 22	1200	4,490	9.76

Minimum discharge, 86 ft^3/s, Oct. 28, 29, Nov. 2, 3

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	95	113	360	274	654	335	356	168	131	254	140
2	250	88	107	359	261	599	320	349	167	131	187	186
3	181	91	102	363	262	537	303	301	175	122	313	2,950
4	175	95	149	348	402	495	290	275	160	120	248	1,290
5	207	343	634	341	386	466	337	7,190	151	116	302	784
6	167	774	558	315	364	439	318	5,050	159	118	308	523
7	150	490	433	287	354	401	721	8,950	198	117	364	378
8	129	369	357	275	314	373	771	3,630	168	115	251	295
9	118	304	301	269	297	351	634	1,660	154	114	220	239
10	610	369	278	251	299	326	560	1,100	145	123	194	202
11	1,130	557	275	228	283	309	494	1,480	163	117	175	182
12	606	376	249	211	271	297	435	1,000	193	114	164	168
13	403	282	292	198	256	288	391	770	161	124	183	156
14	301	241	e470	189	2,800	274	356	642	162	165	237	146
15	277	322	e425	178	9,640	264	329	553	191	131	181	137
16	239	646	e398	179	5,720	256	310	476	165	124	159	129
17	198	509	e370	170	2,190	250	336	459	190	122	149	125
18	169	403	298	159	1,280	246	309	413	168	118	144	121
19	155	340	606	156	973	326	282	363	174	119	138	118
20	151	286	1,420	152	1,050	345	267	326	187	118	133	115
21	134	257	839	157	1,010	317	387	301	154	120	130	128
22	120	230	646	151	4,790	297	359	284	145	125	127	2,090
23	109	204	513	143	3,160	283	325	264	138	123	123	1,030
24	103	188	574	133	1,720	273	311	247	133	119	121	604
25	98	167	575	132	1,170	264	316	244	129	117	118	429
26	97	158	485	129	960	375	301	234	127	118	116	332
27	92	142	434	125	847	364	277	216	136	117	117	275
28	89	130	397	125	732	348	258	202	125	122	117	228
29	103	123	363	209	---	379	287	194	122	306	114	197
30	120	118	333	298	---	368	476	184	121	188	123	181
31	102	---	317	282	---	349	---	178	---	343	178	---
TOTAL	6,964	8,697	13,311	6,872	42,065	11,113	11,395	37,891	4,729	4,257	5,688	13,878
MEAN	225	290	429	222	1,502	358	380	1,222	158	137	183	463
MAX	1,130	774	1,420	363	9,640	654	771	8,950	198	343	364	2,950
MIN	89	88	102	125	256	246	258	178	121	114	114	115
CFSM	1.16	1.50	2.22	1.15	7.78	1.86	1.97	6.33	0.82	0.71	0.95	2.40
IN.	1.34	1.68	2.57	1.32	8.11	2.14	2.20	7.30	0.91	0.82	1.10	2.67

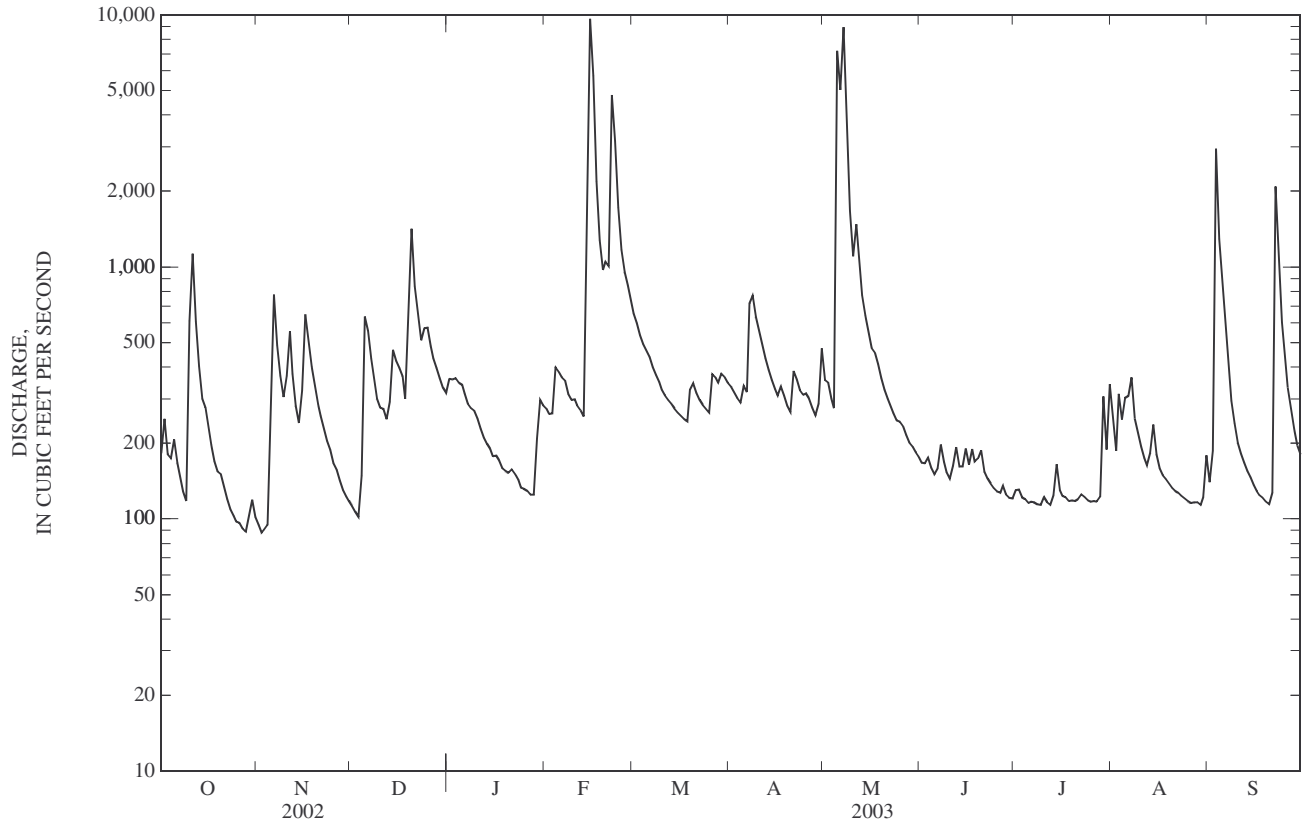
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2003, BY WATER YEAR (WY)

MEAN	105	179	361	490	578	616	497	406	212	139	114	111
MAX	272	749	2,535	1,930	1,704	2,091	1,393	1,715	1,041	340	258	685
(WY)	(2002)	(1958)	(1927)	(1937)	(1932)	(1975)	(1927)	(1983)	(1974)	(1972)	(1938)	(1979)
MIN	52.5	64.9	66.2	84.4	115	109	137	84.9	59.8	61.4	49.3	47.0
(WY)	(1932)	(1957)	(1936)	(1940)	(1941)	(1941)	(1967)	(1941)	(1941)	(1942)	(1936)	(1936)

03602500 PINEY RIVER AT VERNON, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1925 - 2003	
ANNUAL TOTAL	134,619		166,860			
ANNUAL MEAN	369		457		319	
HIGHEST ANNUAL MEAN					684	1927
LOWEST ANNUAL MEAN					102	1941
HIGHEST DAILY MEAN	9,720	Mar 18	9,640	Feb 15	31,200	Dec 21, 1926
LOWEST DAILY MEAN	63	Sep 13	88	Nov 2	38	Aug 19, 1936
ANNUAL SEVEN-DAY MINIMUM	65	Sep 9	98	Oct 28	38	Aug 19, 1936
MAXIMUM PEAK FLOW			17,100	May 7	49,400	May 27, 1991
MAXIMUM PEAK STAGE			16.02	May 7	24.42	May 27, 1991
INSTANTANEOUS LOW FLOW			a86	Oct 28	b35	Sep 19, 1936
ANNUAL RUNOFF (CFSM)	1.91		2.37		1.65	
ANNUAL RUNOFF (INCHES)	25.95		32.16		22.43	
10 PERCENT EXCEEDS	634		649		620	
50 PERCENT EXCEEDS	209		261		152	
90 PERCENT EXCEEDS	81		119		73	

a Also occurred Oct. 29, Nov. 2, 3.
b Also occurred Sept. 20, 1936.
e Estimated



03604000 BUFFALO RIVER NEAR FLAT WOODS, TN

LOCATION.--Lat 35°29'45", long 87°49'58", Perry County, Hydrologic Unit 06040004, on right bank 0.4 mi downstream from Little Opossum Creek, 0.5 mi downstream from bridge on State Highway 13, 1.3 mi north of Flat Woods, 3.9 mi upstream from Sinking Creek, and at mile 58.7.

DRAINAGE AREA.--447 mi^2.

PERIOD OF RECORD.--May 1920 to current year.

REVISED RECORDS.--WSP 758: 1933. WSP 803: 1935. WSP 823: Drainage area. WSP 1436: 1921(M), 1922-24, 1925(M), 1927(M), 1934(M), WRD TN-71: 1970.

GAGE.--Data collection platform. Datum of gage is 513.58 ft above NGVD of 1929, determined by levels run by Army Engineers December 1926 and July 1927, from BM-39, datum of 1929. Prior to May 27, 1934, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good, except for discharges below 2,100 ft^3/s, 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 May 27, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 25	0515	5,500	9.71	Apr 7	1545	5,850	10.05
Feb 16	0045	27,900	22.96	May 7	0215	*35,400	*25.08
Feb 23	0215	9,180	13.07				

Minimum daily discharge, 252 ft^3/s, Sept. 18, 19, 20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	454	487	384	902	647	1,760	687	892	593	687	564	282
2	440	436	356	883	611	1,480	662	757	572	673	452	279
3	394	410	351	843	587	1,280	632	711	583	574	393	441
4	384	419	381	802	2,060	1,110	601	637	582	500	371	720
5	701	486	763	765	2,180	1,000	661	701	543	462	909	542
6	735	1,300	1,030	726	1,430	937	950	13,500	520	438	791	406
7	884	1,560	900	684	1,220	864	4,690	28,800	594	421	655	351
8	1,250	1,110	802	649	1,080	786	3,530	14,800	2,130	419	532	326
9	886	909	733	600	941	729	2,120	3,850	1,250	413	450	310
10	816	804	684	568	874	684	1,530	2,270	885	401	405	297
11	1,420	816	793	541	825	645	1,240	2,220	746	420	374	287
12	1,710	1,230	979	516	767	612	1,060	2,500	742	396	352	281
13	1,300	906	910	493	699	599	923	1,600	719	372	342	274
14	1,010	753	1,130	479	2,680	595	821	1,250	656	364	387	273
15	847	708	1,260	466	23,800	577	728	1,060	619	381	413	270
16	725	936	1,090	457	22,100	558	648	949	821	361	373	262
17	608	1,210	964	462	7,140	547	624	1,020	1,210	358	358	255
18	515	966	888	449	3,090	549	615	1,990	1,000	351	365	252
19	451	837	863	433	2,130	604	570	1,870	913	337	341	252
20	417	771	1,260	425	1,690	1,090	540	1,490	1,010	330	323	252
21	403	702	1,420	429	1,540	933	789	1,260	866	328	310	274
22	384	642	1,150	447	5,730	812	750	1,210	721	363	301	2,240
23	360	588	1,000	437	6,830	742	639	1,120	614	505	310	2,840
24	342	544	2,570	413	3,300	683	594	972	554	486	316	1,130
25	329	516	4,220	395	2,210	644	635	880	515	410	295	778
26	322	498	2,150	398	1,740	642	711	828	482	371	284	582
27	323	478	1,500	391	1,820	641	674	780	474	350	307	490
28	323	457	1,210	383	2,170	599	616	725	483	338	319	433
29	323	437	1,030	405	---	624	575	680	456	408	290	389
30	373	423	909	612	---	771	706	651	511	493	283	357
31	552	---	832	695	---	727	---	618	---	488	294	---
TOTAL	19,981	22,339	34,512	17,148	101,891	24,824	30,521	92,591	22,364	13,198	12,459	16,125
MEAN	645	745	1,113	553	3,639	801	1,017	2,987	745	426	402	538
MAX	1,710	1,560	4,220	902	23,800	1,760	4,690	28,800	2,130	687	909	2,840
MIN	322	410	351	383	587	547	540	618	456	328	283	252
MED	454	705	964	479	1,780	684	680	1,060	617	408	358	318
CFSM	1.44	1.67	2.49	1.24	8.14	1.79	2.28	6.68	1.67	0.95	0.90	1.20
IN.	1.66	1.86	2.87	1.43	8.48	2.07	2.54	7.71	1.86	1.10	1.04	1.34

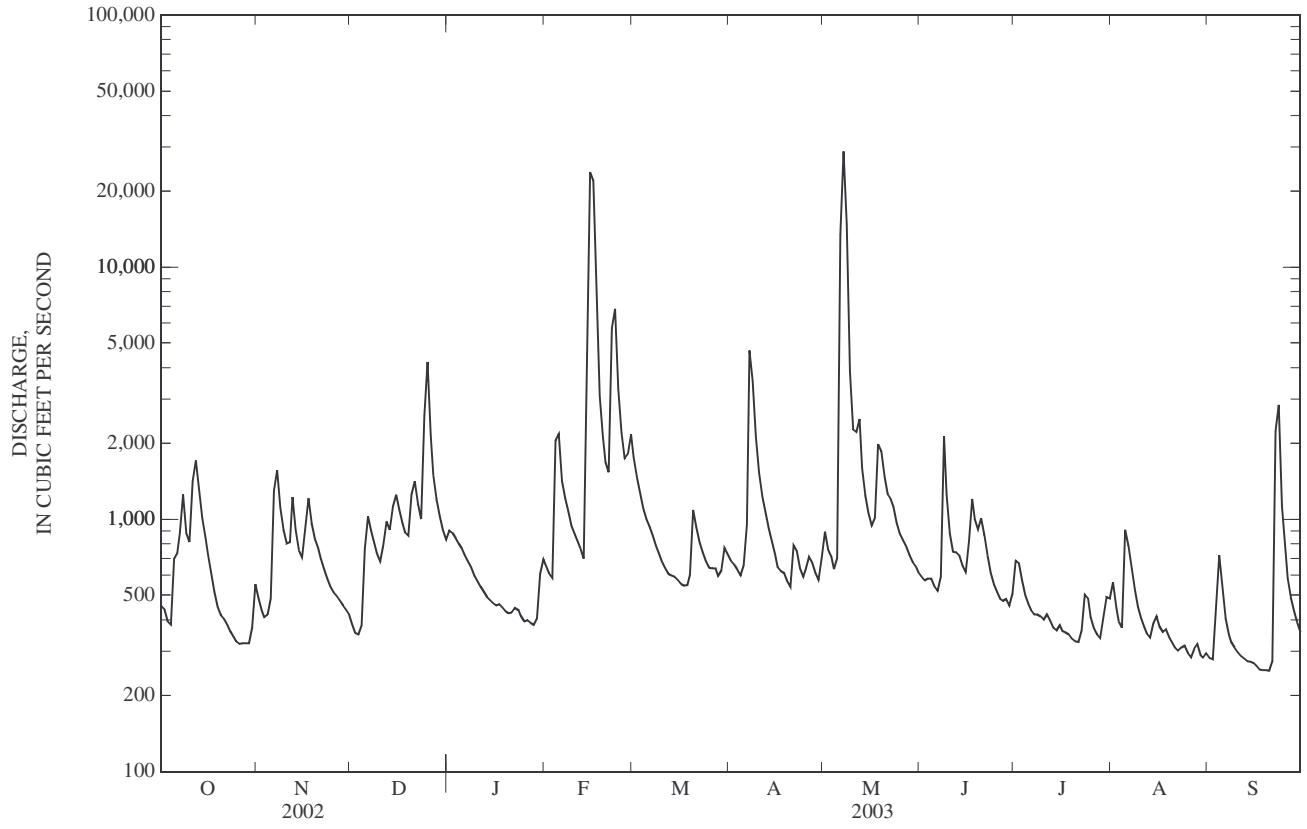
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2003, BY WATER YEAR (WY)

MEAN	293	531	931	1,210	1,390	1,469	1,172	905	467	370	290	277
MAX	1,418	2,554	3,568	3,854	4,901	4,405	3,034	5,227	1,642	1,824	1,008	1,286
(WY)	(1933)	(1958)	(1927)	(1937)	(1948)	(1973)	(1964)	(1991)	(1974)	(1932)	(1923)	(1979)
MIN	112	174	213	234	316	458	303	210	146	121	117	94.2
(WY)	(1932)	(1925)	(1964)	(1940)	(1926)	(1966)	(1986)	(1942)	(1941)	(1943)	(1925)	(1925)

03604000 BUFFALO RIVER NEAR FLAT WOODS, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1920 - 2003	
ANNUAL TOTAL	345,470		407,953			
ANNUAL MEAN	946		1,118		772	
HIGHEST ANNUAL MEAN					1,583	1973
LOWEST ANNUAL MEAN					323	1942
HIGHEST DAILY MEAN	25,400	Jan 24	28,800	May 7	75,800	May 27, 1991
LOWEST DAILY MEAN	172	Sep 13	a252	Sep 18	65	Sep 9, 1925
ANNUAL SEVEN-DAY MINIMUM	175	Sep 9	259	Sep 14	71	Sep 5, 1925
MAXIMUM PEAK FLOW			35,400	May 7	b96,300	May 27, 1991
MAXIMUM PEAK STAGE			25.08	May 7	c32.19	May 27, 1991
INSTANTANEOUS LOW FLOW			d250	Sep 20	65	Sep 9, 1925
ANNUAL RUNOFF (CFSM)	2.12		2.50		1.73	
ANNUAL RUNOFF (INCHES)	28.75		33.95		23.46	
10 PERCENT EXCEEDS	1,410		1,640		1,450	
50 PERCENT EXCEEDS	512		642		400	
90 PERCENT EXCEEDS	235		338		180	

a Also occurred Sept. 19, 20.
b From rating curve extended above 50,000 ft^3/s, on basis of slope-area and contracted opening measurements and rainfall runoff study.
c From high-water mark in gage house.
d Also occurred Sept. 21.



03605078 CYPRESS CREEK AT CAMDEN, TN

LOCATION.--Lat 36°02'49", long 88°04'33", Benton County, Hydrologic Unit 06040005, on left bank, adjacent to southwest corner of third sewage lagoon at Camden Sewage Treatment Plant, 1.5 mi southeast of Camden, and 1.4 mi upstream from Kentucky Lake.

DRAINAGE AREA.--27.3 mi^2.

PERIOD OF RECORD.--January 1992 to current year, discharge for stage of 4.30 ft and below only.

GAGE.--Data logger. Datum of gage is 360.00 ft above NGVD of 1929, determined by the city of Camden, Tennessee.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; maximum gage height, 11.41 ft, Sept. 27, 2002; minimum discharge, 0.0 ft^3/s, Sept. 2-19, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; maximum gage height, 11.17 ft, Dec. 19; minimum discharge, 3.1 ft^3/s, July 27-28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	10	12	---	18	52	36	60	7.7	24	9.7	5.8
2	13	9.3	11	85	16	45	31	43	9.1	15	6.1	---
3	20	12	11	68	16	38	27	28	16	14	14	---
4	31	16	---	38	39	34	24	20	9.9	11	8.2	---
5	15	---	---	34	18	32	56	---	8.3	7.3	65	47
6	8.8	---	51	27	19	34	41	---	---	6.8	---	26
7	8.5	37	30	23	28	30	---	---	---	6.5	---	18
8	7.3	27	22	22	18	26	59	---	24	6.4	24	14
9	6.5	21	18	19	17	23	45	---	15	6.1	12	12
10	---	---	31	14	21	20	---	---	11	6.1	7.7	8.5
11	---	---	46	12	27	19	62	---	---	6.3	7.0	7.4
12	59	49	26	10	31	19	48	---	---	5.5	6.2	6.7
13	29	34	---	11	22	20	38	---	54	5.5	7.1	6.3
14	20	28	67	11	---	19	30	---	32	5.3	8.1	5.7
15	17	---	34	9.4	---	18	25	---	27	5.0	6.5	5.6
16	14	---	27	10	---	18	21	---	---	4.7	5.8	5.3
17	11	59	21	9.5	---	18	47	---	---	4.2	8.9	5.0
18	9.8	41	17	8.1	73	19	29	---	39	3.9	11	4.9
19	13	33	---	8.4	---	---	22	---	32	4.5	6.1	4.8
20	19	28	---	10	---	55	19	---	21	4.2	5.4	4.9
21	12	25	---	14	---	38	---	---	16	3.9	5.1	9.1
22	9.8	21	53	12	---	28	42	---	14	5.3	4.7	---
23	8.7	19	34	9.5	---	23	26	43	11	5.0	12	31
24	8.9	18	---	6.7	---	21	25	15	8.9	4.1	5.8	16
25	9.6	17	---	6.8	90	21	45	16	7.8	4.0	4.9	12
26	9.2	18	41	7.5	90	---	30	17	7.4	3.5	4.4	10
27	9.1	17	32	6.8	94	40	21	14	9.8	3.2	4.8	8.3
28	8.6	15	28	7.1	66	31	17	11	7.2	3.2	4.7	6.3
29	23	14	24	---	---	---	15	10	6.5	49	4.0	5.7
30	16	14	27	34	---	66	---	9.1	41	9.2	4.6	5.4
31	11	---	---	21	---	46	---	8.3	---	14	12	---

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03606500 BIG SANDY RIVER AT BRUCETON, TN

LOCATION.--Lat 36°02'14", long 88°13'46", Carroll County, Hydrologic Unit 06040005, at bridge on U.S. Highway 70, 0.9 mi east of Bruceton and 2 mi east of Carroll-Benton County line, and at mile 31.6

DRAINAGE AREA.--205 mi^2.

PERIOD OF RECORD.--July 1929 to November 1988, January 2002 to current year.

REVISED RECORDS.--WSP 853: Drainage area. WSP 923: 1929-35.

GAGE.--Data collection platform. Datum of gage is 380.58 ft above NGVD of 1929. Prior to March 1, 1940, nonrecording gage at same site

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1897 reached a stage of 18 ft, discharge 25,000 ft^3/s, and flood in March 1919 reached a stage of 17 ft, discharge, 21,000 ft^3/s, from reports by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 20	2000	*9,140	*15.14	Feb 24	0845	2,180	12.21
Feb 16	1445	4,970	14.09	May 6	0630	4,420	13.86

Minimum discharge, 61 ft^3/s, July 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	e125	131	591	201	345	203	636	107	130	206	211
2	208	e124	131	455	186	307	183	382	108	124	143	329
3	165	139	138	436	178	269	172	222	166	103	181	1,460
4	270	e200	404	314	280	251	166	172	138	91	152	1,240
5	394	e430	1,120	265	207	245	324	1,940	120	86	166	505
6	208	e500	762	226	193	256	274	4,090	141	83	215	207
7	170	e300	334	201	256	230	563	3,750	491	83	256	158
8	150	203	230	201	201	215	397	3,160	231	82	145	136
9	128	165	194	198	187	206	249	2,400	149	79	122	126
10	770	856	216	183	212	189	394	1,860	124	80	110	122
11	1,390	1,210	278	165	253	184	315	1,350	235	102	104	114
12	1,150	583	218	156	281	183	e245	614	513	89	98	110
13	587	263	367	159	213	195	e199	309	215	85	196	106
14	208	194	649	162	1,170	200	172	233	153	82	281	102
15	162	463	418	153	2,550	187	158	214	202	80	160	99
16	141	655	256	157	4,550	183	151	195	205	72	119	96
17	130	360	212	162	3,540	180	290	368	396	68	107	94
18	121	236	191	143	2,190	186	252	360	260	66	110	94
19	120	203	2,260	146	878	429	184	243	180	74	100	94
20	180	185	7,390	173	850	426	165	194	256	79	93	96
21	152	173	5,800	206	866	248	586	227	153	e83	90	97
22	127	162	2,440	174	1,730	206	369	208	120	e84	89	415
23	117	150	755	144	2,050	188	195	169	109	e83	231	301
24	118	145	943	124	2,140	177	184	149	104	80	170	155
25	121	143	928	131	1,620	176	263	146	96	73	114	124
26	123	151	519	142	580	495	216	157	92	69	100	117
27	120	152	319	138	569	328	174	141	100	67	95	111
28	121	140	273	143	437	227	147	128	93	64	90	103
29	167	137	245	364	---	610	132	131	87	464	86	98
30	174	137	243	399	---	399	1,310	122	178	218	95	96
31	132	---	307	235	---	249	---	115	---	268	318	---
TOTAL	8,457	8,884	28,671	6,846	28,568	8,169	8,632	24,385	5,522	3,291	4,542	7,116
MEAN	273	296	925	221	1,020	264	288	787	184	106	147	237
MAX	1,390	1,210	7,390	591	4,550	610	1,310	4,090	513	464	318	1,460
MIN	117	124	131	124	178	176	132	115	87	64	86	94
CFSM	1.33	1.44	4.51	1.08	4.98	1.29	1.40	3.84	0.90	0.52	0.71	1.16
IN.	1.53	1.61	5.20	1.24	5.18	1.48	1.57	4.42	1.00	0.60	0.82	1.29

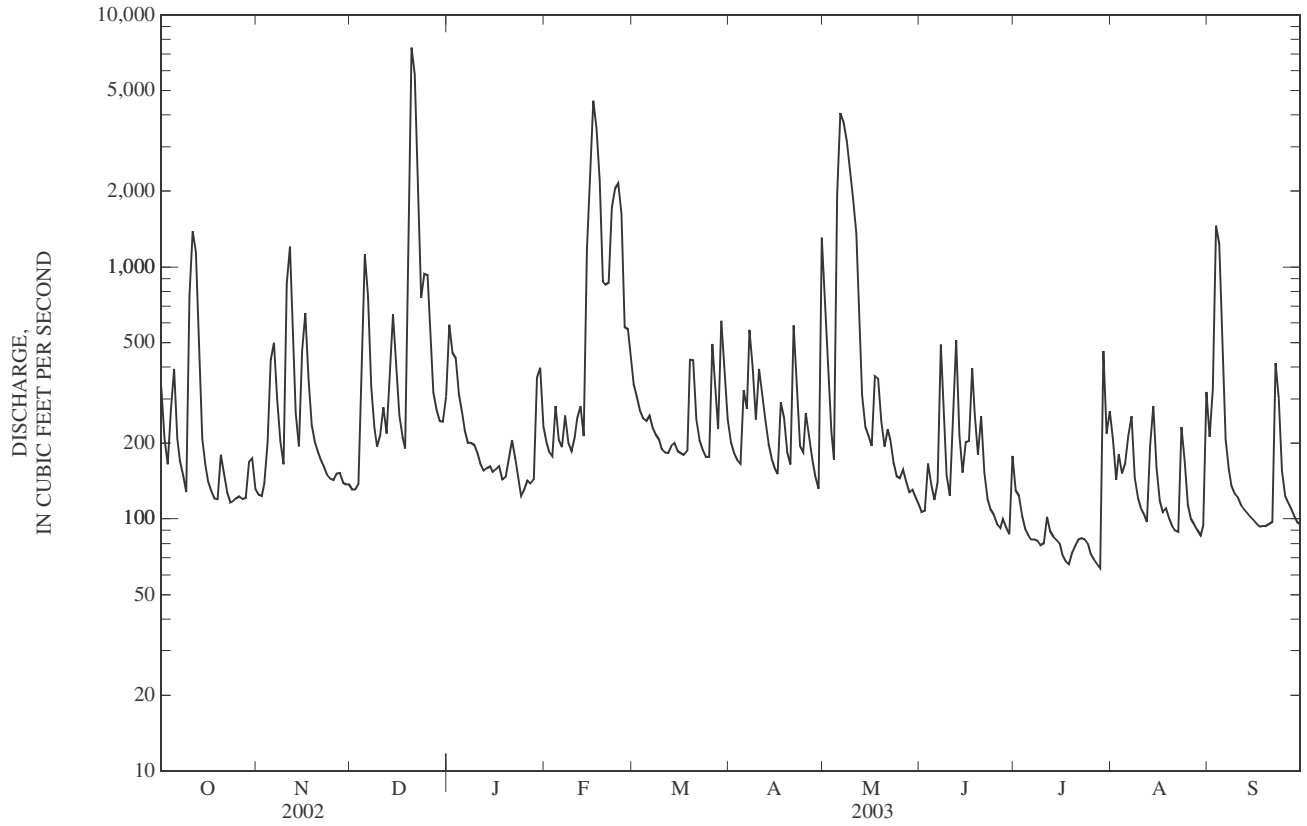
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2003, BY WATER YEAR (WY)

MEAN	124	260	363	504	453	499	395	312	181	152	127	149
MAX	534	995	1,011	2,712	1,235	1,478	1,292	1,423	956	929	613	885
(WY)	(1973)	(1958)	(1950)	(1937)	(1950)	(1975)	(1979)	(1983)	(1974)	(1972)	(1971)	(2002)
MIN	42.0	65.7	88.1	90.8	96.4	84.6	89.2	51.6	41.8	32.9	39.7	35.7
(WY)	(1944)	(1955)	(1964)	(1963)	(1941)	(1941)	(1967)	(1941)	(1941)	(1943)	(1956)	(1942)

03606500 BIG SANDY RIVER AT BRUCETON, TN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1929 - 2003	
ANNUAL TOTAL	148,645		143,083			
ANNUAL MEAN	407		392		292	
HIGHEST ANNUAL MEAN					632	1950
LOWEST ANNUAL MEAN					77.8	1941
HIGHEST DAILY MEAN	10,300	Sep 28	7,390	Dec 20	15,500	Jan 21, 1935
LOWEST DAILY MEAN	54	Sep 11	64	Jul 28	28	Aug 17, 1943
ANNUAL SEVEN-DAY MINIMUM	55	Sep 7	74	Jul 22	29	Aug 17, 1943
MAXIMUM PEAK FLOW			9,140	Dec 20	a19,600	Nov 29, 2001
MAXIMUM PEAK STAGE			15.14	Dec 20	b16.60	Nov 29, 2001
INSTANTANEOUS LOW FLOW			61	Jul 28	28	Aug 17, 1943
ANNUAL RUNOFF (CFSM)	1.99		1.91		1.42	
ANNUAL RUNOFF (INCHES)	26.97		25.96		19.33	
10 PERCENT EXCEEDS	666		695		647	
50 PERCENT EXCEEDS	160		187		126	
90 PERCENT EXCEEDS	71		95		53	

a From rating curve extended above 9,200 ft^3/s.
b Peak stage from crest-stage gage, outside period of recorded stage.
e Estimated



RESERVOIRS IN TENNESSEE RIVER BASIN

03468500 DOUGLAS LAKE.--Lat 35°57'40", long 83°32'20", Sevier County, Hydrologic Unit 06010107, at Douglas Dam on French Broad River, 6.5 mi north of Sevierville, and at mile 32.3. DRAINAGE AREA, 4,541 mi^2. PERIOD OF RECORD, February 1943 to current year. GAGE,water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir formed by concrete main dam and 10 saddle dams. Spillway equipped with 11 radial gates, each 32 ft high by 40 ft wide and 8 sluice gates 10 ft high by 5.67 ft wide. Closure of dam was made Feb. 19, 1943; water in reservoir first reached minimum pool elevation Feb. 25, 1943. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,002.00 ft, top of gates, is 743,600 cfs-days, of which 631,200 cfs-days is controlled storage above elevation 940.00 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 760,000 cfs-days, July 25, 1949, elevation, 1,001.79 ft; minimum after first filling, 1,000 cfs-days, Jan. 16, 1956, elevation, 883.7 ft, estimated.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 732,600 cfs-days, May 8, elevation, 1,001.74 ft; minimum, 107,500 cfs-days, Jan. 27, elevation, 940.33 ft.

03476000 SOUTH HOLSTON LAKE.--Lat 36°31'15", long 82°05'11", Sullivan County, Hydrologic Unit 06010102, 470 ft upstream from South Holston Dam on South Fork Holston River, 7.0 mi southeast of Bristol, Virginia-Tennessee, and at mile 49.8. DRAINAGE AREA, 703 mi^2. PERIOD OF RECORD, November 1950 to current year. GAGE, water-stage recorder. Datum of gage is sea level. Prior to May 11, 1951, non-recording gage at same site and datum.

REMARKS.--Reservoir is formed by rock and rolled earthfill dam. Spillway is uncontrolled morning-glory type, 128 ft in diameter with six piers, each 3 ft wide to guide flow spilling into a concrete-lined shaft and tunnel 34 ft in diameter.Closure of dam was made Nov. 20, 1950; water in reservoir first reached minimum pool elevation Jan. 25, 1951. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,742.00 ft, spillway crest, is 385,200 cfs-days, of which 220,800 cfs-days is controlled storage above elevation 1,675.00 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 363,800 cfs-days, May 10, 1984, elevation, 1,736.86 ft; minimum after first filling, 57,700 cfs-days, Jan. 13, 1956, elevation, 1,614.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximim contents, 340,400 cfs-days, July 10, elevation 1,731.26 ft: minimum, 237,000 cfs-days, Jan. 25, elevation, 1,701.40 ft.

03483500 WATAUGA LAKE.--Lat 36°19'20", long 82°07'16", Carter County, Hydrologic Unit 06010103, at Watauga Dam on Watauga River, 5 mi east of Elizabethton, and at mile 36.7. DRAINAGE AREA, 468 mi^2. PERIOD OF RECORD, December 1948 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by rock and rolled earthfill dam. Spillway is uncontrolled morning-glory type, 128 ft in diameter with six piers, each 3 ft wide to guide flow spilling into a concrete-lined shaft and tunnel 34 ft in diameter.Closure of dam was made Dec. 1, 1948; water in reservoir first reached minimum pool elevation Dec. 31, 1948. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,975.00 ft, spillway crest, is 341,300 cfs-days, of which 178,500 cfs-days is controlled storage above elevation 1,915.00 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 300,800 cfs-days, Apr. 19, 1987, elevation, 1,963.28 ft; minimum after first filling, 25,100 cfs-days, Jan. 13, 1956, elevation, 1,813.47 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 293,400 cfs-days, Apr. 21, elevation, 1,961.05 ft; minimum, 220,600 cfs-days, Jan. 28, elevation, 1,937.08 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	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)
	03468500 DOUGLAS LAKE			03476000 SOUTH HOLSTON LAKE			03483500 WATAUGA LAKE		
Sept. 30...	971.19	341,600	-	1,708.93	260,800	-	1,943.13	237,800	-
Oct. 31...	960.36	241,000	-100,600	1,703.27	242,800	-18,000	1,940.99	231,700	-6,100
Nov. 30...	954.59	195,500	-45,500	1,707.91	257,500	+14,700	1,943.00	237,500	+5,800
Dec. 31...	945.67	136,300	-59,200	1,706.73	253,700	-3,800	1,942.43	235,800	-1,700
CAL YR 2002	-	-	+22,900	-	-	+15,000	-	-	-12,200
Jan. 31...	945.66	136,200	-100	1,703.03	242,100	-11,600	1,937.80	222,700	-13,100
Feb. 28...	965.76	288,900	+152,700	1,720.69	300,900	+58,800	1,948.50	253,600	+30,900
Mar. 31...	970.30	332,700	+43,800	1,718.96	294,800	-6,100	1,952.17	264,800	+11,200
Apr. 30...	992.53	596,000	+263,300	1,729.19	332,400	+37,600	1,959.31	287,600	+22,800
May 31...	995.48	638,200	+42,200	1,729.14	332,200	-200	1,958.94	286,400	-1,200
June 30...	994.21	619,800	-18,400	1,729.19	332,400	+200	1,957.96	283,200	-3,200
July 31...	992.11	590,100	-29,700	1,727.51	326,000	-6,400	1,954.68	272,700	-10,500
Aug. 31...	984.14	485,800	-104,300	1,724.91	316,300	-9,700	1,953.78	269,800	-2,900
Sept. 30...	972.98	360,000	-125,800	1,716.04	284,600	-31,700	1,949.20	255,700	-14,100
WTR YR 2003	-	-	+18,400	-	-	+23,800	-	-	+17,900

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03486800 BOONE LAKE.--Lat 36°26'26", long 82°26'16", Sullivan County, Hydrologic Unit 06010102, at Boone Dam on South Fork Holston River, 0.7 mi northeast of Spurgeon, 1.3 mi downstream from Watauga River, and at mile 18.6. DRAINAGE AREA, 1,840 mi^2. PERIOD OF RECORD, December 1952 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by gravity nonover-flow type concrete dam. Spillway is equipped with five radial gates, each 35 ft high by 35 ft wide. Storage began Dec. 16, 1952; water in reservoir first reached minimum pool elevation Jan. 5, 1953. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,385.0 ft, top of gates, is 97,500 cfs-days, of which 74,800 cfs-days is controlled storage above elevation 1,330 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 99,100 cfs-days, May 19, 1964, elevation 1,384.99 ft; minimum after first filling, 21,300 cfs-days, Jan. 23, 1956, elevation, 1,327.06 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 95,900 cfs-days, Aug. 2, elevation, 1,384.27 ft; minimum, 48,600 cfs-days, Dec. 24, elevation, 1,356.18 ft.

03487000 FORT PATRICK HENRY LAKE.--Lat 36°29'53", long 82°30'32", Sullivan County, Hydrologic Unit 06010102, at Fort Patrick Henry Dam on South Fork Holston River, 0.2 mi upstream from bridge on U. S. Highway 23, 4.5 mi southeast of Kingsport, and at mile 8.2. DRAINAGE AREA, 1,903 mi^2. PERIOD OF RECORD, October 1953 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by gravity nonover-flow type concrete dam. Spillway is equipped with five radial gates, each 35 ft high by 35 ft wide. Storage began Oct. 27, 1953; water in reservoir first reached minimum pool elevation Dec. 8, 1953. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,263 ft, top of gates, is 13,600 cfs-days, of which 2,200 cfs-days is controlled storage above elevation 1,258 ft, normal minimum pool. Reservoir is used for navigation, flood control and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 14,000 cfs-days, Feb. 11, 1954, elevation, 1,263.80 ft, minimum after first filling, 2,300 cfs-days, Dec. 4, 2002, elevation, 1,223.86 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,600 cfs-days, Mar. 4, elevation, 1,262.99 ft; minimum, 2,300 cfs-days, Dec. 4, elevation, 1,223.86 ft.

03493500 CHEROKEE LAKE.--Lat 36°10'00", long 83°29'55", Jefferson County, Hydrologic Unit 06010104, at Cherokee Dam on Holston River, 0.3 mi upstream from bridge on State Highway 92, 2.7 mi upstream from Mill Spring Creek, 2.8 mi north of Jefferson City, and at mile 52.3. DRAINAGE AREA, 3,429 mi^2. PERIOD OF RECORD, December 1941 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with nine radial gates, each 32 ft high by 40 ft wide. Storage began Dec. 5, 1941; water in reservoir first reached minimum pool elevation Jan. 6, 1942. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,075.0 ft, top of gates, is 778,400 cfs-days, of which 580,300 cfs-days is controlled storage above elevation 1,020.0 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 779,400 cfs-days, May 11, 1944, maximum elevation, 1,074.47 ft May 30, 1973; minimum after first filling, 48,400 cfs-days, Jan. 7, 1954, elevation, 980.77 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 746,500 cfs-days, June 21, elevation, 1,072.98 ft; minimum, 250,200 cfs-days, Jan. 24, elevation, 1,027.78 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	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)
	03486800 BOONE LAKE			03487000 FORT PATRICK HENRY LAKE			03493500 CHEROKEE LAKE		
Sept. 30...	1,376.01	79,200	-	1,261.87	13,100	-	1,047.46	424,300	-
Oct. 31...	1,373.23	74,200	-5,000	1,261.32	12,800	-300	1,047.96	429,600	+5,300
Nov. 30...	1,364.99	60,800	-13,400	1,243.75	6,600	-6,200	1,045.07	399,800	-29,800
Dec. 31...	1,357.84	50,700	-10,100	1,226.94	2,800	-3,800	1,034.70	304,300	-95,500
CAL YR 2002	-	-	+10,700	-	-	-5,200	-	-	+22,700
Jan. 31...	1,362.40	57,000	+6,300	1,231.51	3,700	+900	1,031.07	275,000	-29,300
Feb. 28...	1,365.37	61,400	+4,400	1,261.17	12,800	+9,100	1,051.74	470,600	+195,600
Mar. 31...	1,374.23	75,900	+14,500	1,259.88	12,200	-600	1,051.44	467,300	-3,300
Apr. 30...	1,380.88	88,700	+12,800	1,261.04	12,700	+500	1,068.52	682,000	+214,700
May 31...	1,382.38	91,800	+3,100	1,261.57	12,900	+200	1,072.20	734,900	+52,900
June 30...	1,382.63	92,400	+600	1,262.05	13,100	+200	1,070.71	713,200	-21,700
July 31...	1,381.96	90,900	-1,500	1,261.08	12,700	-400	1,068.40	680,300	-32,900
Aug. 31...	1,382.06	91,100	+200	1,261.42	12,900	+200	1,066.63	655,700	-24,600
Sept. 30...	1,377.39	81,800	-9,300	1,261.82	13,000	+100	1,057.35	536,000	-119,700
WTR YR 2003	-	-	+2,600	-	-	-100	-	-	+111,700

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03499500 FORT LOUDOUN LAKE.--Lat 35°47'30", long 84°14'35", Loudon County, Hydrologic Unit 06010201, at Fort Loudoun Dam on Tennessee River, 1 mi northeast of Lenoir City, and at mile 602.3. DRAINAGE AREA, 9,550 mi^2. PERIOD OF RECORD, July 1943 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir formed by concrete dam with earth embankment. Spillway equipped with 14 radial gates, each 32 ft high by 40 ft wide. Closure of dam was made Aug. 2, 1943; water in reservoir first reached ordinary minimum pool elevation Sept. 4, 1943. Revised capacity table put into use Jan. 19, 1980. Total level pool capacity at elevation 815.00 ft, top of gates, is 424,000 cfs-days, of which 120,000 cfs-days is controlled flood storage above elevation 807.00 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and power. Tellico-Fort Loudoun canal was opened Jan. 19, 1980. Canal is 1,000 ft long, and interconnects Tellico and Fort Loudoun Lakes at the dam. Spillway gates of Tellico Dam were closed Feb. 7, 1980, diverting all flow from Little Tennessee River.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 815.87 ft, May 7, 2003; minimum after first filling, 805.54 ft, Jan. 18, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 205,800 cfs-days, May 6; maximum elevation, 815.87 ft, May 7; minimum contents, 148,600 cfs-days, Dec. 30, minimum elevation, 807.55 ft, Feb. 28. Contents based on backwater profile.

03519800 TELLICO LAKE.--Lat 35°46'53", long 84°15'10", Loudon County, Hydrologic Unit 06010201, at Tellico Dam on Little Tennessee River, 1.1 mi south of Lenoir City, and at mile 0.4. DRAINAGE AREA, 2,627 mi^2. PERIOD OF RECORD, December 1979 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir formed by concrete dam with earth embankment. Spillway equipped with 3 radial gates, each 42 ft high by 40 ft wide. Closure of dam was made Nov. 29, 1979; water in reservoir first reached ordinary minimum pool elevation Dec. 24, 1979. Total capacity at elevation 815.00 ft, top of gates, is 225,500 cfs-days, of which 63,800 cfs-days is controlled storage above elevation 807.00 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and indirectly, power. Tellico-Fort Loudoun canal was opened Jan. 19, 1980. Canal is 1,000 ft long, and interconnects Tellico and Fort Loudoun Lakes at the dam. Spillway gates of Tellico Dam were closed Feb. 7, 1980, diverting all flow from Little Tennessee River.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 228,700 cfs-days, May 8, 1984, elevation, 815.37 ft; maximum elevation, 816.04 ft, on May 8, 2003; minimum after first filling, 155,300 cfs-days, Feb. 17, 1997, elevation, 807.30 ft; minimum elevation, 806.96 ft, Jan. 14, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 222,700 cfs-days, May 8, elevation, 816.04 ft; minimum, 159,000 cfs-days, Feb. 28, elevation, 807.83 ft.

03532500 NORRIS LAKE.--Lat 36°13'29", long 84°05'29", Anderson County, Hydrologic Unit 06010205, at Norris Dam on Clinch River, 2.5 mi northwest of Norris, and at mile 79.8. DRAINAGE AREA, 2,912 mi^2. PERIOD OF RECORD, June 1935 to current year. GAGE, water-stage recorder. Datum of stage is 0.11 ft above sea level. Gage readings have been reduced to sea level.

REMARKS.--Reservoir is formed by concrete gravity dam with three drum gates, each 100 ft wide by 14 ft high. Some storage began in June 1935; dam was completely closed and placed in operation Mar. 4, 1936; water in reservoir first reached minimum pool elevation Mar. 24, 1936 Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,034.11 ft, top of gates, is 1,286,600 cfs-days, of which 969,000 cfs-days is controlled storage above elevation 960.11 ft normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,236,700 cfs-days, Feb. 11, 1937, elevation, 1,031.21 ft; minimum after first filling, 75,500 cfs-days, Jan. 24, 1956, elevation, 909.46 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,105,500 cfs-days, June 22, elevation, 1,024.51 ft; minimum, 538,400 cfs-days, Jan. 30, elevation, 984.59 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	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)
	*03499500 FORT LOUDOUN LAKE			03519800 TELLICO LAKE			03532500 NORRIS LAKE		
Sept. 30...	811.14	169,600	-	811.30	184,500	-	997.06	687,000	-
Oct. 31...	813.17	184,300	+14,700	813.31	200,100	+15,600	990.88	609,500	-77,500
Nov. 30...	810.58	166,100	-18,200	810.75	180,300	-19,800	992.48	628,600	+19,100
Dec. 31...	807.87	149,500	-16,600	808.03	160,400	-19,900	994.39	651,900	+23,300
CAL YR 2002	-	-	-5,000	-	-	-7,700	-	-	+71,400
Jan. 31...	810.47	165,000	+15,500	810.62	179,300	+18,900	985.02	543,100	-108,800
Feb. 28...	807.92	151,300	-13,700	808.11	161,000	-18,300	1,010.54	874,200	+331,100
Mar. 31...	809.49	158,200	+6,900	809.65	172,100	+11,100	1,005.13	794,600	-79,600
Apr. 30...	812.48	180,100	+21,900	812.80	196,100	+24,000	1,021.47	1,051,900	+257,300
May 31...	813.00	183,100	+3,000	813.15	198,800	+2,700	1,020.56	1,036,200	-15,700
June 30...	813.10	184,600	+1,500	813.09	198,300	-500	1,021.63	1,054,600	+18,400
July 31...	813.10	185,200	+600	813.17	199,000	+700	1,018.53	1,001,800	-52,800
Aug. 31...	813.10	184,000	-1,200	813.13	198,600	-400	1,012.51	904,500	-97,300
Sept. 30...	812.38	179,300	-4,700	812.49	193,600	-5,000	1,008.28	840,300	-64,200
WTR YR 2003	-	-	+9,700	-	-	+9,100	-	-	+153,300

* Contents based on backwater profile.

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03535900 MELTON HILL LAKE.--Lat 35°53'04", long 84°18'01", Loudon-Roane County line, Hydrologic Unit 06010207, 9 mi southwest of Oak Ridge, 19 mi west of Knoxville, 57 mi downstream from Norris Dam on Clinch River, and at mile 23.1. DRAINAGE AREA, 3,343 mi^2. PERIOD OF RECORD, August 1962 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with three radial gates, each 42 ft high by 40 ft wide. Dam completed and storage began May 1, 1963; water in reservoir first reached minimum pool elevation May 23, 1963. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 796 ft, top of gates, is 63,500 cfs-days, of which 16,100 cfs-days is controlled storage above elevation 790.0 ft, normal minimum pool. Reservoir is used for navigation, power, and recreation.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 64,900 cfs-days, Mar. 16, 1973, elevation, 796.45 ft; minimum after first filling, 35,100 cfs-days, Feb. 9, 1966, elevation, 784.10 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 64,200 cfs-days, Feb. 16, elevation, 796.21 ft; minimum, 48,400 cfs-days, Mar. 27, elevation, 790.42 ft.

03543000 WATTS BAR LAKE.--Lat 35°37'13", long 84°47'00", Rhea County, Hydrologic Unit 06010201, at Watts Bar Dam on Tennessee River, 6.5 mi southeast of Spring City, 72.4 mi downstream from Fort Loudoun Dam, and at mile 529.9. DRAINAGE AREA, 17,310 mi^2, approximately. PERIOD OF RECORD, October 1941 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with 20 radial gates, each 32 ft high by 40 ft wide, also one 2-section leaf trashway gate 16.3 ft high by 24 ft wide. Storage began with partial closure Dec. 12, 1941, and final closure Jan. 1, 1942; water in reservoir first reached minimum navigation pool elevation Feb. 17, 1942. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 745.0 ft, top of gates, is 592,400 cfs-days, of which 191,000 cfs-days is controlled flood storage above elevation 735.0 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 747.35 ft, May 7, 2003; minimum after first filling, 733.44 ft, Mar. 20, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 649,300 cfs-days, May 7; maximum elevation, 747.35 ft, May 7; minimum midnight contents, 418,000 cfs-days, Dec. 31; minimum elevation, 734.99 ft, Jan. 2. Contents based on backwater profile.

03564000 LAKE OCOEE.--Lat 35°05'40", long 84°38'53", Polk County, Hydrologic Unit 06020003, at Lake Ocoee Dam on Ocoee River at Parksville, 13.8 mi east of Cleveland, and at mile 11.9. DRAINAGE AREA, 595 mi^2. PERIOD OF RECORD, June 1914 to current year. Prior to October 1953, published as "Parksville (Ocoee No. 1) Reservoir," and October 1953 to September 1968, as "Parksville Lake." GAGE, nonrecording gage. Datum of gage is 6.89 ft above sea level. Gage readings have been reduced to sea level.

REMARKS.--Reservoir is formed by concrete dam with 347 ft of spillway. Spillway is equipped with four floodgates, each 6 ft high by 20 ft wide and 265 ft of flashboards about 5.7 ft high. Crest of spillway under gates is at elevation 830.82 ft; remainder of spillway is 1.0 ft higher. Dam completed and storage began in 1911. Capacity of reservoir has been considerably reduced by silting. Revised capacity table put into use Jan. 1, 1979.Total capacity at elevation 837.55 ft, about top of flashboards, is 42,300 cfs-days, of which 15,600 cfs-days is controlled storage above elevation 817.9 ft, normal minimum pool. Reservoir is used for power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum midnight contents observed, 53,300 cfs-days, July 9, 1916; maximum midnight elevation observed, 840.2 ft, Feb. 10, 1946; minimum contents observed, 27,300 cfs-days, Jan. 27, 1956, elevation, 817.7 ft; minimum midnight elevation observed, 814.8 ft, Dec. 14, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 44,300 cfs-days, May 7, elevation, 839.91 ft; minimum 32,400 cfs-days, Dec. 29, elevation, 826.89 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	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)
	03535900 MELTON HILL LAKE			*03543000 WATTS BAR LAKE			03564000 LAKE OCOEE		
Sept. 30...	793.96	57,500	-	739.90	487,900	-	834.99	39,400	-
Oct. 31...	793.87	57,300	-200	740.45	498,600	+10,700	834.69	39,100	-300
Nov. 30...	792.81	54,400	-2,900	737.64	447,300	-51,300	831.29	36,000	-3,100
Dec. 31...	793.26	55,600	+1,200	735.88	418,000	-29,300	827.19	32,600	-3,400
CAL YR 2002	-	-	+1,300	-	-	+4,600	-	-	-1,000
Jan. 31...	793.99	57,600	+2,000	737.91	451,300	+33,300	827.79	33,100	+500
Feb. 28...	792.63	53,900	-3,700	737.61	449,900	-1,400	828.52	33,700	+600
Mar. 31...	790.65	49,000	-4,900	738.96	470,200	+20,300	829.32	34,300	+600
Apr. 30...	793.56	56,400	+7,400	740.40	498,300	+28,100	835.08	39,500	+5,200
May 31...	793.38	55,900	-500	740.66	502,700	+4,400	830.22	35,100	-4,400
June 30...	792.46	53,500	-2,400	740.64	502,800	+100	835.37	39,800	+4,700
July 31...	793.84	57,200	+3,700	740.48	500,200	-2,600	835.15	39,600	-200
Aug. 31...	792.98	54,800	-2,400	740.02	490,800	-9,400	834.58	39,000	-600
Sept. 30...	792.38	53,300	-1,500	741.03	510,500	+19,700	833.89	38,400	-600
WTR YR 2003	-	-	-4,200	-	-	+22,600	-	-	-1,000

* Contents based on backwater profile.

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03566500 CHICKAMAUGA LAKE.--Lat 35°06'07", long 85°13'42", Hamilton County, Hydrologic Unit 06020001, at Chickamauga Dam on Tennessee River, 5.8 mi northeast of Chattanooga, 58.9 mi downstream from Watts Bar Dam, and at mile 471.0. DRAINAGE AREA, 20,790 mi^2, approximately. PERIOD OF RECORD, October 1939 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with eighteen 2-section lift gates, each 40.44 ft high by 40 ft wide. Storage began Feb. 6, 1940; water in reservoir first reached minimum navigation pool elevation Mar. 10, 1940. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 685.44 ft, top of gates, is 372,600 cfs-days, of which 175,000 cfs-days is controlled flood storage above elevation 675.0 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 687.13 ft, May 7, 2003; minimum after first filling, 673.27 ft, Jan. 21, 1942.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 425,800 cfs-days, May 7; maximum elevation, 687.13 ft, May 7; minimum midnight contents, 206,400 cfs-days, Jan. 4; minimum elevation, 675.28 ft, Jan. 4. Contents based on backwater profile.

03570520 NICKAJACK LAKE.--Lat 35°00'07", long 85°37'14", Marion County, Hydrologic Unit 06020001, at Nickajack Dam on Tennessee River, 2 mi upstream from Sequatchie River, 5 mi south of Jasper, 46.3 mi downstream from Chickamauga Dam, and at mile 424.7. DRAINAGE AREA, 21,870 mi^2, approximately. PERIOD OF RECORD, December 1967 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with earth embankments on each side. The spillway, with crest at elevation 595.0 ft, is equipped with 10 radial gates, each 40 ft high by 40 ft wide. A trash gate, 5.5 ft high by 15 ft wide, is located between the spillway and powerhouse. Dam was completed and storage began on Dec. 14, 1967. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 635.0 ft, top of gates, is 127,200 cfs-days, of which 16,200 cfs-days is controlled storage above elevation 632.0 ft, ordinary minimum. Reservoir is used for navigation and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 634.99 ft, Apr. 19, 1969; minimum after first filling, 630.82 ft, Feb. 20, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 198,100 cfs-days, May 7; maximum elevation, 634.66 ft, Apr. 7; minimum midnight contents, 114,900 cfs-days, Oct. 15; minimum elevation, 631.80 ft, May 11. Contents based on backwater profile.

03579000 WOODS RESERVOIR.--Lat 35°17'54", long 86°05'48", Franklin County, Hydrologic Unit 06030003, at Elk River Dam on Elk River, 1.2 mi upstream from Spring Creek, 2.5 mi northeast of Estill Springs, 6.8 mi upstream from bridge on U.S. Highway 41-A, and at mile 170.0. DRAINAGE AREA, 263 mi^2. PERIOD OF RECORD, May 1952 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete gravity and earthfill-type dam with riprapped embankments. Spillway equipped with three radial gates, each 25 ft high by 50 ft wide, and two sluice gates, each 6 ft high by 4 ft wide. Closure of dam was made May 1, 1952; water in reservoir first reached minimum pool elevation Feb. 6, 1953. Total capacity at elevation 962.0 ft, surcharge pool, is 44,400 cfs-days, of which 9,900 cfs- days is controlled storage above elevation 957.0 ft, normal minimum pool. Reservoir is used for cooling water, flood control, and recreational purposes.

COOPERATION.--Twice-daily gage readings (0600 and 2400 hours) furnished by U.S. Air Force.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 42,300 cfs-days, April 21 and 22, 1956, elevation, 960.98 ft; minimum after first filling, 26,300 cfs-days, Nov. 8-11, 1953, elevation, 951.93 ft.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 40,600 cfs-days, May 7, elevation, 960.18 ft; minimum midnight contents, 36,000 cfs-days, Mar. 1; elevation, 957.80 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	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)
	*03566500 CHICKAMAUGA LAKE			*03570520 NICKAJACK LAKE			03579000 WOODS RESERVOIR		
Sept. 30...	680.84	284,700	-	633.69	120,900	-	959.45	39,200	-
Oct. 31...	679.05	256,800	-27,900	633.04	117,100	-3,800	958.74	37,800	-1,400
Nov. 30...	677.36	232,900	-23,900	633.32	119,200	+2,100	958.08	36,500	-1,300
Dec. 31...	676.25	218,400	-14,500	632.65	118,900	-300	958.00	36,400	-100
CAL YR 2002	-	-	-46,600	-	-	-200	-	-	-100
Jan. 31...	675.86	209,600	-8,800	634.02	121,500	+2,600	958.02	36,400	0
Feb. 28...	676.67	240,900	+31,300	632.46	137,300	+15,800	958.02	36,400	0
Mar. 31...	676.09	212,700	-28,200	633.12	116,900	-20,400	959.62	39,500	+3,100
Apr. 30...	682.26	311,100	+98,400	633.53	119,800	+2,900	959.48	39,200	-300
May 31...	682.91	321,800	+10,700	633.76	122,300	+2,500	959.60	39,500	+300
June 30...	681.81	304,200	-17,600	632.79	120,100	-2,200	959.49	39,200	-300
July 31...	683.28	328,400	+24,200	633.87	123,200	+3,100	959.53	39,300	+100
Aug. 31...	681.48	297,400	-31,000	634.42	125,500	+2,300	959.51	39,300	0
Sept. 30...	681.31	292,700	-4,700	633.93	122,300	-3,200	959.49	39,200	-100
WTR YR 2003	-	-	+8,000	-	-	+1,400	-	-	0

* Contents based on backwater profile.

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03580740 TIMS FORD LAKE.--Lat 35°11'51", long 86°16'41", Franklin County, Hydrologic Unit 06030003, in intake tower near left bank at Tims Ford Dam on Elk River, 0.4 mi upstream from bridge on State Highway 50, 9.5 mi west of Winchester, and at mile 133.4. DRAINAGE AREA, 529 mi^2. PERIOD OF RECORD, December 1970 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with compacted rockfill impervious earth core embankments. Spillway equipped with three radial gates, each 42 ft high by 40 ft wide. Storage began Dec. 1, 1970; water in reservoir first reached minimum pool elevation Feb. 23, 1971, and first filling was completed June 3, 1971. Total capacity at elevation 895 ft, top of gates, is 306,500 cfs-days, of which 142,400 cfs-days is controlled storage above elevation 865 ft, normal minimum pool. Reservoir is used for flood control, power, and recreation.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 302,300 cfs-days, May 7, 2003, elevation, 894.27 ft; minimum after first filling 130,600 cfs-days, Dec. 1, 1997, elevation, 855.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 302,300 cfs-days, May 7, elevation, 894.27 ft; minimum, 186,700 cfs-days, Jan. 28, elevation, 870.78 ft.

03593000 PICKWICK LAKE.--Lat 35°04'16", long 88°15'04", Hardin County, Hydrologic Unit 06040001, at Pickwick Landing Dam on Tennessee River, 1.5 mi north of town of Pickwick Dam, 6.1 mi upstream from Lick Creek, 52.7 mi downstream from Wilson Dam, and at mile 206.7. DRAINAGE AREA, 38,820 mi^2, approximately. PERIOD OF RECORD, October 1937 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with twenty-two 2-section lift gates, each 40 ft high by 40 ft wide, one of which is used as a trash gate. Dam completed and storage began Feb. 8, 1938; water in reservoir first reached minimum pool elevation Feb. 18, 1938. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 418.0 ft, top of gates, is 557,100 cfs-days, of which 210,200 cfs-days is controlled flood storage above elevation 408.0 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 419.49 ft, Mar. 30, 1944; minimum after first filling, 407.12 ft, Dec. 18, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 676,900 cfs-days, May 8; maximum elevation, 416.90 ft; May 9, minimum midnight contents, 440,800 cfs-days, Nov. 24, minimum elevation, 407.87 ft, Jan. 23. Contents based on backwater profile.

03596460 NORMANDY LAKE.--Lat 35°27'55", long 86°14'55", Coffee County, Hydrologic Unit 06040002, at Normandy Dam on Duck River, 1.5 mi northeast of Normandy, 2.6 mi downstream from Riley Creek, 8 mi north of Tullahoma, and at mile 248.6. DRAINAGE AREA, 195 mi^2. PERIOD OF RECORD, January 1976 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete gravity dam with riprapped and rolled earthfill embankment on left side. Spillway is equipped with two radial gates, each 40 ft high by 36 ft wide. Storage began Jan. 5, 1976; water in reservoir first reached minimum pool elevation Mar. 22, 1976. Revised capacity table put into use Jan. 1, 1977. Total capacity at elevation 880 ft, top of gates, is 64,000 cfs-days, of which 30,400 cfs-days is controlled storage above elevation 859 ft, normal minimum pool. Reservoir is used for flood control, water supply, water-quality control, recreation, and shoreline development.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 63,800 cfs-days, Feb. 20, 1991, elevation, 880.12 ft; minimum after first filling, 26,800 cfs-days, Nov. 27, 1981, elevation, 853.12 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 62,900 cfs-days, May 6, elevation, 879.64 ft; minimum 39,300 cfs-days, Feb. 12, elevation, 863.92 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	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)
	03580740 TIMS FORD LAKE			*03593000 PICKWICK LAKE			03596460 NORMANDY LAKE		
Sept. 30...	883.88	245,800	-	410.08	484,000	-	869.72	47,300	-
Oct. 31...	880.07	227,200	-18,600	411.29	496,100	+12,100	869.33	46,700	-600
Nov. 30...	876.81	212,300	-14,900	410.23	475,800	-20,300	865.88	41,900	-4,800
Dec. 31...	873.33	197,200	-15,100	409.03	451,100	-24,700	864.45	40,000	-1,900
CAL YR 2002	-	-	-1,600	-	-	+4,300	-	-	+200
Jan. 31...	872.57	194,000	-3,200	409.63	459,900	+8,800	866.06	42,100	+2,100
Feb. 28...	884.09	246,800	+52,800	410.93	510,000	+50,100	867.63	44,300	+2,200
Mar. 31...	878.71	220,900	-25,900	412.88	535,700	+25,700	869.71	47,300	+3,000
Apr. 30...	885.07	251,800	+30,900	413.13	543,900	+8,200	873.55	53,000	+5,700
May 31...	888.05	267,500	+15,700	413.12	541,900	-2,000	875.43	56,000	+3,000
June 30...	888.00	267,200	-300	413.72	556,400	+14,500	875.20	55,600	-400
July 31...	888.09	267,700	+500	414.40	571,700	+15,300	875.22	55,600	0
Aug. 31...	884.33	248,000	-19,700	412.80	531,900	-39,800	874.21	54,100	-1,500
Sept. 30...	884.24	247,600	-400	411.11	494,800	-37,100	874.01	53,800	-300
WTR YR 2003	-	-	+1,800	-	-	+10,800	-	-	+6,500

* Contents based on backwater profile.

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03609000 KENTUCKY LAKE.--Lat 37°00'49", long 88°16'06", Marshall County, KY, Hydrologic Unit 06040006, at Kentucky Dam on Tennessee River at Gilbertsville, KY, and at mile 22.4. DRAINAGE AREA, 40,200 mi^2, approximately. PERIOD OF RECORD, July 1944 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with 24 lift gates 50 ft high by 40 ft wide. Storage began Aug. 16, 1944, and final closure was Aug. 30, 1944. Water in reservoir reached minimum pool elevation Apr. 7, 1945. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 375.0 ft, top of gates, is 3,090,000 cfs-days, of which 2,020,700 cfs-days is controlled storage above 354.0 ft, ordinary minimum pool. Reservoir is used for navigation, flood control, and power. Barkley-Kentucky Canal opened July 13, 1966, for navigation and power use. Canal is 1.75 miles 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 Kentucky reports.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 369.87 ft, May 24, 1983; minimum after first filling, 348.02 ft, Mar. 11, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 2,718,300 cfs-days May 12; maximum elevation, 367.32 ft, May 17; minimum midnight contents, 1,059,600 cfs-days, Jan. 26, minimum elevation, 353.69 ft, Jan. 27.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Elevation (feet)	Content (cfs-days)	Change contents (cfs-days)
	*03609000 KENTUCKY LAKE		
Sept. 30...	357.31	1,305,100	-
Oct. 31...	355.50	1,184,800	-120,300
Nov. 30...	354.70	1,130,300	-54,500
Dec. 31...	354.58	1,215,000	+84,700
CAL YR 2002	-	-	+77,700
Jan. 31...	354.63	1,116,800	-98,200
Feb. 28...	354.60	1,514,500	+397,700
Mar. 31...	355.72	1,183,300	-331,200
Apr. 30...	359.32	1,464,200	+280,900
May 31...	359.12	1,443,700	-20,500
June 30...	359.53	1,492,400	+48,700
July 31...	358.17	1,368,800	-123,600
Aug. 31...	356.49	1,239,700	-129,100
Sept. 30...	355.38	1,197,800	-41,900
WTR YR 2003	-	-	-107,300

* Contents based on backwater profile.

OTHER RESERVOIRS.--The following small reservoirs in the Tennessee River basin are described below, but records of contents are not published herein.

03466400 DAVY CROCKETT LAKE on Nolichucky River at Nolichucky Dam, with a total capacity of 1,300 cfs-days, none of which is controlled storage.

03517900 CALDERWOOD LAKE on Little Tennessee River at Calderwood, with a total capacity of 20,800 cfs-days of which 840 cfs-days is controlled storage.

03518200 CHILHOWEE LAKE on Little Tennessee River at Chilhowee Dam, with a total capacity of 24,800 cfs-days of which 3,400 cfs-days is controlled storage.

03562500 OCOEE NO. 3 LAKE on Ocoee River at Ocoee No. 3 Dam, 5.0 miles west of Ducktown, with a total capacity of 1,660 cfs-days, of which 1,550 cfs-days is controlled storage. Records of contents previous to 1971 water year published as Ocoee No. 3 Lake near Ducktown, TN.

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