03431599 WHITES CREEK NEAR BORDEAUX, TN

LOCATION.--Lat 36°13'03", long 86°49'12", Davidson County, Hydrologic Unit 05130202, on right bank on downstream side of bridge on Buena Vista Pike, 0.4 mi downstream from Ewing Creek, 1.8 mi northeast of Bordeaux, 2.1 mi above Drakes Branch, and at mile 6.1.

DRAINAGE AREA.--51.3 mi^2.

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

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

REMARKS.--Records good except for estimated daily discharges, which are fair. Peak discharge of 12,200 ft^3/s, Feb. 23, 1975, gage height 17.06 ft, occurred at Tucker Road near Bordeaux site. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 5	1400	7,420	15.95	Apr 23	1530	3,700	11.74
Apr 22	0645	*7,820	*16.34	Aug 5	0300	3,190	11.05

Minimum discharge, 1.6 ft^3/s, Aug. 17, 18, 20.

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	13	8.2	20	84	39	436	72	67	e64	5.5	20	4.3
2	12	7.9	15	259	91	378	57	243	e39	5.4	11	13
3	9.3	8.1	12	153	315	212	47	269	e37	5.1	7.9	12
4	7.9	8.0	18	108	156	152	41	200	e32	6.9	9.3	7.7
5	7.7	24	17	132	3,000	474	36	131	e28	5.7	685	5.7
6	9.3	17	15	103	874	683	31	90	e25	10	38	4.6
7	7.6	13	12	81	394	289	29	65	e21	34	14	3.9
8	6.6	10	10	61	240	199	28	55	e17	e12	8.0	3.5
9	6.3	8.0	9.3	55	188	147	27	51	12	e6.0	5.6	3.0
10	7.4	7.6	55	41	155	103	26	49	12	4.0	4.6	3.0
11	8.0	7.4	47	29	120	81	26	48	11	16	3.7	2.6
12	7.0	10	32	26	115	64	256	47	20	11	3.6	2.8
13	6.5	14	26	22	95	53	624	47	28	6.9	3.1	4.8
14	28	12	213	19	82	46	413	48	18	17	2.7	5.5
15	22	15	102	17	73	41	236	742	13	7.4	2.3	3.6
16	12	31	132	15	58	42	167	235	10	5.2	2.0	12
17	9.5	25	118	14	49	36	115	144	9.6	4.3	1.8	31
18	8.1	375	86	229	42	33	85	97	13	3.7	1.9	10
19	7.2	198	67	132	37	30	64	67	11	3.1	2.0	6.0
20	6.5	84	49	89	36	72	51	57	7.8	3.3	23	4.2
21	6.0	47	33	62	33	113	209	52	6.5	2.8	83	3.8
22	6.0	26	24	48	29	69	2,240	50	6.2	3.0	15	4.0
23	5.9	17	104	32	27	52	1,080	48	6.6	3.0	11	3.9
24	6.2	161	159	25	25	43	551	46	6.3	2.9	36	3.7
25	5.8	70	97	710	25	37	310	45	6.7	5.2	28	3.7
26	40	42	64	331	25	34	249	43	7.4	12	19	3.6
27	21	35	47	185	24	32	181	42	6.1	8.7	10	3.6
28	14	58	32	115	23	28	123	41	5.6	6.1	8.4	3.8
29	11	40	169	87	21	76	91	41	5.3	4.5	6.2	3.7
30	9.3	27	261	67	---	88	77	39	5.2	3.9	10	3.6
31	8.7	---	127	51	---	92	---	315	---	86	5.7	---
TOTAL	335.8	1,406.2	2,172.3	3,382	6,391	4,235	7,542	3,514	490.3	310.6	1,081.8	180.6
MEAN	10.8	46.9	70.1	109	220	137	251	113	16.3	10.0	34.9	6.02
MAX	40	375	261	710	3,000	683	2,240	742	64	86	685	31
MIN	5.8	7.4	9.3	14	21	28	26	39	5.2	2.8	1.8	2.6
CFSM	0.21	0.91	1.37	2.13	4.30	2.66	4.90	2.21	0.32	0.20	0.68	0.12
IN.	0.24	1.02	1.58	2.45	4.63	3.07	5.47	2.55	0.36	0.23	0.78	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

MEAN	17.2	58.3	106	129	164	182	134	96.6	47.4	16.5	16.8	23.3
MAX	68.5	151	286	288	427	530	286	277	264	48.3	87.2	122
(WY)	(2003)	(2002)	(1973)	(1999)	(2003)	(1975)	(1994)	(1995)	(1998)	(1967)	(1972)	(1974)
MIN	2.05	6.30	8.18	25.2	36.3	46.0	18.8	20.1	4.70	1.11	1.79	0.98
(WY)	(1970)	(1999)	(1966)	(1966)	(1968)	(1966)	(1967)	(2001)	(1966)	(1966)	(1999)	(1999)

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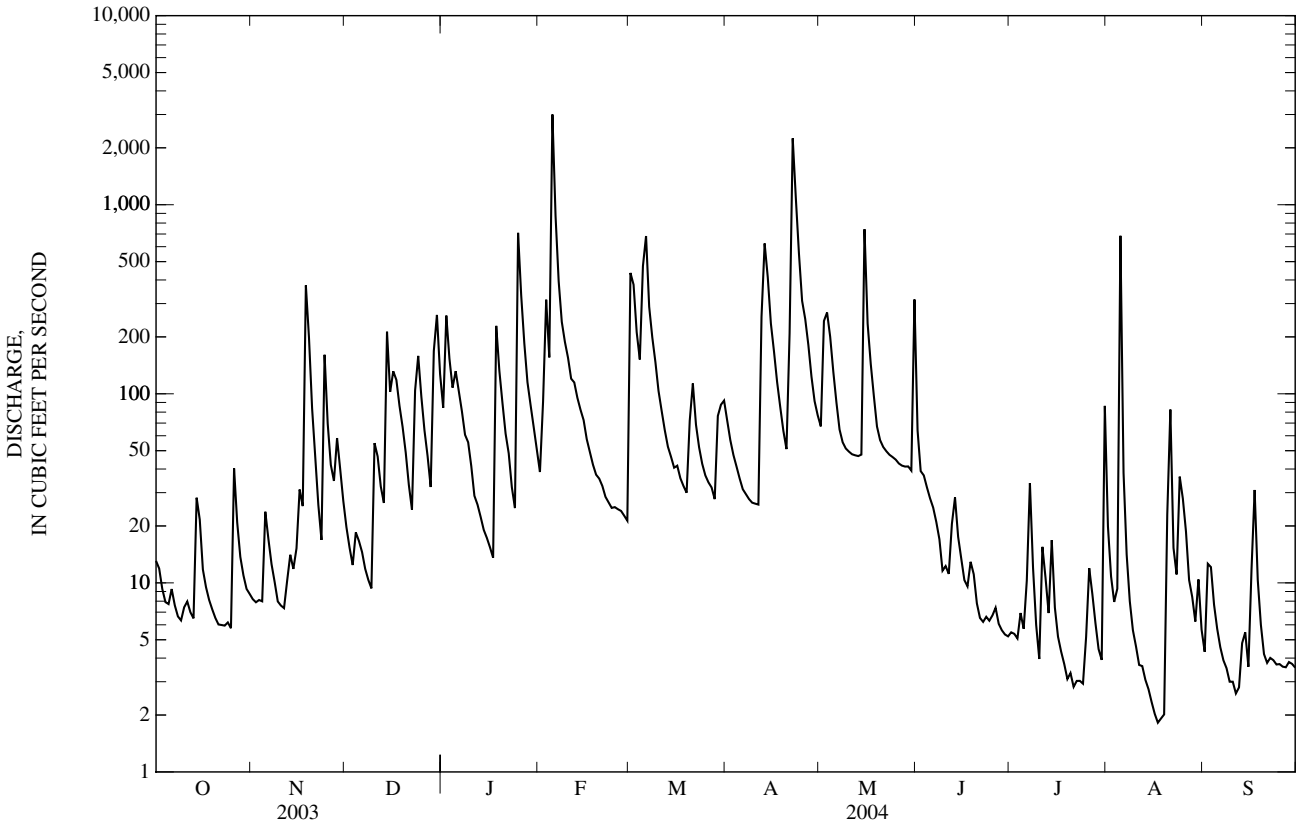
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004	
ANNUAL TOTAL	36,098.1		31,041.6			
ANNUAL MEAN	98.9		84.8		79.8	
HIGHEST ANNUAL MEAN					129	1994
LOWEST ANNUAL MEAN					35.2	1966
HIGHEST DAILY MEAN	2,820	May 7	3,000	Feb 5	5,100	Feb 23, 1975
LOWEST DAILY MEAN	3.7	Aug 26	1.8	Aug 17	0.19	Sep 12, 1999
ANNUAL SEVEN-DAY MINIMUM	4.3	Aug 20	2.3	Aug 13	0.30	Sep 7, 1999
MAXIMUM PEAK FLOW			7,820	Apr 22	a12,200	Feb 23, 1975
MAXIMUM PEAK STAGE			16.34	Apr 22	b19.18	Mar 17, 2002
INSTANTANEOUS LOW FLOW			c1.6	Aug 17	d0.07	Sep 10, 1999
ANNUAL RUNOFF (CFSM)	1.93		1.65		1.55	
ANNUAL RUNOFF (INCHES)	26.18		22.51		21.12	
10 PERCENT EXCEEDS	164		198		172	
50 PERCENT EXCEEDS	28		27		22	
90 PERCENT EXCEEDS	7.1		4.3		2.6	

a From rating curve extended above 6,900 ft^3/s on basis of contracted opening measurement of peak flow, see REMARKS.
b Current site and datum.
c Also occurred Aug. 18, 20.
d Also occurred Sept. 11, 1999.
e Estimated