03430550 MILL CREEK NEAR NOLENSVILLE, TN

LOCATION.--Lat 36°00'32", long 86°42'05", Davidson County, Hydrologic Unit 05130202, near left bank on downstream side of bridge on US Highway 31A, 800 ft upstream from Holt Creek, 0.6 mi upstream from Owl Creek, 4.6 mi northwest of Nolensville, and at mile 19.6.

DRAINAGE AREA.--40.5 mi^2.

PERIOD OF RECORD.--March 1992 to September 2004 (discontinued).

REVISED RECORD.--WRD TN-94-1: 1992 (M), WRD TN-03-1: 2001-02 (P).

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 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	1345	*8,180	*16.22	Mar 5	2045	4,260	12.58

Minimum daily discharge, 0.72 ft^3/s, Oct. 10.

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	8.3	4.0	58	67	40	183	73	34	41	52	3.9	3.6
2	6.2	4.5	45	76	75	255	62	104	27	41	3.1	20
3	4.5	4.7	39	66	166	125	54	87	38	21	2.6	17
4	3.5	4.9	40	58	101	96	46	75	23	23	3.0	11
5	2.8	8.1	35	82	3,310	820	40	57	17	18	339	7.7
6	2.6	3.7	e26	72	689	447	36	44	13	13	57	6.2
7	1.5	2.3	e23	62	232	171	32	35	10	33	29	5.5
8	0.99	1.8	e20	55	155	119	31	28	11	18	18	4.2
9	0.76	1.4	21	55	121	94	25	24	17	12	13	3.7
10	0.72	1.5	63	46	105	77	23	30	14	25	9.2	4.2
11	1.4	1.4	58	41	88	67	22	66	8.6	17	7.4	4.4
12	3.1	2.7	46	37	88	59	173	31	139	14	14	4.2
13	3.3	4.8	41	33	80	52	582	41	155	8.8	11	6.3
14	5.9	4.3	e60	30	73	48	240	41	66	7.0	8.1	12
15	8.0	5.5	e54	27	66	44	142	322	44	5.6	6.6	9.7
16	9.5	25	e48	24	59	46	103	129	32	4.7	5.5	31
17	9.2	26	51	23	55	38	81	89	46	4.4	4.5	102
18	6.9	e273	44	284	49	37	67	69	43	3.8	4.1	36
19	6.0	e174	39	132	46	32	58	56	26	3.0	3.7	17
20	5.4	91	33	90	43	68	51	44	19	2.4	8.7	11
21	5.4	62	29	72	40	114	48	34	15	1.8	11	7.6
22	5.0	46	26	61	36	73	62	27	12	1.8	7.7	6.2
23	4.7	35	70	51	34	60	130	21	11	1.7	6.2	6.1
24	3.4	175	98	46	31	52	96	17	9.6	2.3	6.8	5.4
25	2.9	91	71	378	28	44	68	14	9.0	1.9	5.8	4.6
26	5.0	65	58	154	42	39	56	12	8.8	3.8	5.1	4.0
27	5.4	57	49	103	46	35	45	10	6.9	3.6	4.9	3.8
28	4.5	249	41	79	39	32	37	9.3	5.7	2.5	4.9	3.6
29	4.4	109	72	66	37	101	31	8.5	5.2	2.0	4.8	3.4
30	4.6	75	133	57	---	121	31	7.9	7.9	1.9	4.1	3.2
31	4.5	---	85	47	---	89	---	145	---	4.3	3.9	---
TOTAL	140.37	1,608.6	1,576	2,474	5,974	3,638	2,545	1,711.7	880.7	354.3	616.6	364.6
MEAN	4.53	53.6	50.8	79.8	206	117	84.8	55.2	29.4	11.4	19.9	12.2
MAX	9.5	273	133	378	3,310	820	582	322	155	52	339	102
MIN	0.72	1.4	20	23	28	32	22	7.9	5.2	1.7	2.6	3.2
CFSM	0.11	1.32	1.25	1.97	5.08	2.90	2.09	1.36	0.72	0.28	0.49	0.30
IN.	0.13	1.48	1.45	2.27	5.48	3.34	2.34	1.57	0.81	0.33	0.57	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

MEAN	23.2	44.6	79.7	112	141	164	74.5	80.9	50.5	16.4	8.86	14.6
MAX	146	122	159	225	302	372	209	241	210	58.8	35.0	102
(WY)	(1996)	(1996)	(1997)	(1999)	(2003)	(1997)	(1994)	(2003)	(1998)	(1992)	(1995)	(2003)
MIN	0.39	1.67	28.4	38.3	40.3	51.4	20.3	8.40	4.00	2.35	1.03	0.85
(WY)	(2001)	(1999)	(2000)	(2003)	(2002)	(2003)	(1992)	(1992)	(2002)	(2000)	(2000)	(2000)

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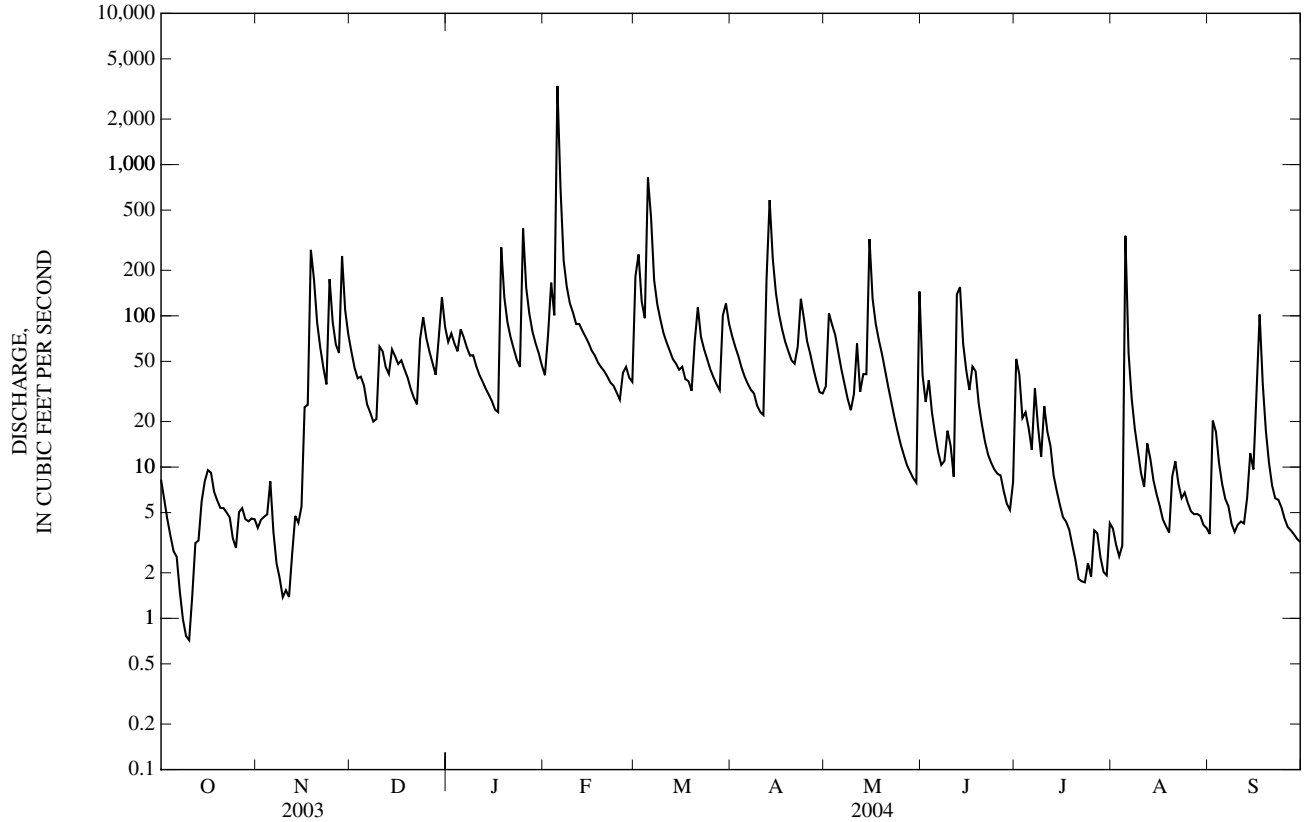
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1992 - 2004	
ANNUAL TOTAL	30,733.89		21,883.87			
ANNUAL MEAN	84.2		59.8		68.0	
HIGHEST ANNUAL MEAN					104	1994
LOWEST ANNUAL MEAN					41.3	1993
HIGHEST DAILY MEAN	2,630	Jun 7	3,310	Feb 5	4,070	Mar 27, 1994
LOWEST DAILY MEAN	0.60	Sep 13	0.72	Oct 10	0.08	Sep 13, 1993
ANNUAL SEVEN-DAY MINIMUM	0.98	Sep 7	1.5	Oct 5	0.10	Sep 9, 1993
MAXIMUM PEAK FLOW			8,180	Feb 5	13,000	Oct 5, 1995
MAXIMUM PEAK STAGE			16.22	Feb 5	17.88	May 25, 2000
INSTANTANEOUS LOW FLOW					0.14	Oct 30, 1999
ANNUAL RUNOFF (CFSM)	2.08		1.48		1.68	
ANNUAL RUNOFF (INCHES)	28.21		20.09		22.81	
10 PERCENT EXCEEDS	118		106		127	
50 PERCENT EXCEEDS	26		31		20	
90 PERCENT EXCEEDS	1.7		3.7		1.4	

e Estimated