03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN

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

DRAINAGE AREA.-- 1,687 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Data logger.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48,000 ft^3/s, Sept. 9, gage height 26.17 ft; minimum discharge, 666 ft^3/s, Oct. 26.

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	1,100	927	2,380	2,450	1,680	2,260	3,550	2,210	4,660	1,970	1,750	1,210
2	1,000	869	2,150	2,220	1,610	3,440	4,010	2,140	3,810	1,860	1,680	1,030
3	949	849	2,000	2,130	2,480	4,460	3,340	2,360	2,490	1,910	1,620	2,250
4	902	835	2,010	2,070	3,010	4,110	2,980	2,400	2,130	2,090	1,870	2,560
5	848	848	2,880	3,380	2,800	3,600	2,810	2,150	1,890	1,950	1,560	1,670
6	839	1,350	3,420	4,400	4,830	6,340	2,600	1,980	1,940	2,190	1,370	1,330
7	817	2,380	3,100	4,200	9,810	6,300	2,390	1,880	1,670	2,130	1,300	1,170
8	774	2,240	2,490	3,800	9,400	5,790	2,290	1,770	1,490	1,870	1,170	5,850
9	747	1,550	2,220	2,660	6,230	4,690	2,240	1,650	1,390	1,640	1,090	37,300
10	763	1,230	2,480	2,480	4,160	3,560	2,150	1,820	1,490	1,460	1,040	12,800
11	1,090	1,120	3,010	2,260	3,510	3,190	2,020	2,440	1,850	1,660	977	5,780
12	1,480	1,060	4,110	2,070	3,230	2,870	2,020	1,860	1,670	2,060	1,040	3,930
13	1,180	1,020	3,080	2,020	3,250	2,660	3,780	1,810	2,940	1,690	1,120	3,070
14	1,080	983	2,680	1,970	3,040	2,450	8,400	1,670	3,410	1,800	1,370	2,570
15	967	973	2,780	1,880	3,090	2,350	7,390	1,640	3,720	1,500	1,180	2,230
16	938	929	2,730	1,820	4,380	2,510	5,580	1,610	2,850	1,280	1,010	2,000
17	962	982	2,960	1,740	4,080	2,920	4,000	1,620	3,050	1,200	957	4,380
18	894	1,070	3,300	1,820	3,610	3,150	3,370	1,560	2,290	1,180	930	36,900
19	819	7,110	3,250	2,370	3,020	3,320	3,000	1,580	1,960	1,840	893	17,900
20	800	24,900	2,950	2,550	2,800	3,480	2,730	1,640	1,610	1,600	871	7,490
21	779	12,000	2,590	2,140	2,680	3,340	2,550	1,520	1,840	1,270	870	5,150
22	751	7,040	2,310	1,920	2,640	2,970	2,400	1,400	2,250	1,120	1,000	4,040
23	727	4,140	2,270	1,840	2,640	2,660	2,250	1,300	2,280	1,050	984	3,360
24	711	3,150	2,730	1,770	2,480	2,410	2,120	1,380	2,830	1,010	1,140	2,930
25	700	2,840	4,600	1,800	2,380	2,290	2,010	1,600	3,310	1,010	1,050	2,620
26	681	2,600	4,050	2,350	2,330	2,190	2,290	1,440	5,020	2,640	1,240	2,360
27	753	2,320	3,190	2,430	2,370	2,090	3,400	1,630	5,550	4,510	1,090	2,200
28	944	2,490	2,750	2,130	2,650	2,000	3,540	2,130	3,990	5,140	955	2,580
29	1,330	3,020	2,520	1,960	2,480	1,950	2,730	1,930	2,710	3,320	869	8,190
30	1,130	2,870	2,600	1,780	---	1,990	2,390	1,720	2,250	2,230	874	4,720
31	992	---	2,660	1,800	---	2,370	---	3,230	---	1,820	1,480	---
TOTAL	28,447	95,695	88,250	72,210	102,670	99,710	96,330	57,070	80,340	60,000	36,350	191,570
MEAN	918	3,190	2,847	2,329	3,540	3,216	3,211	1,841	2,678	1,935	1,173	6,386
MAX	1,480	24,900	4,600	4,400	9,810	6,340	8,400	3,230	5,550	5,140	1,870	37,300
MIN	681	835	2,000	1,740	1,610	1,950	2,010	1,300	1,390	1,010	869	1,030

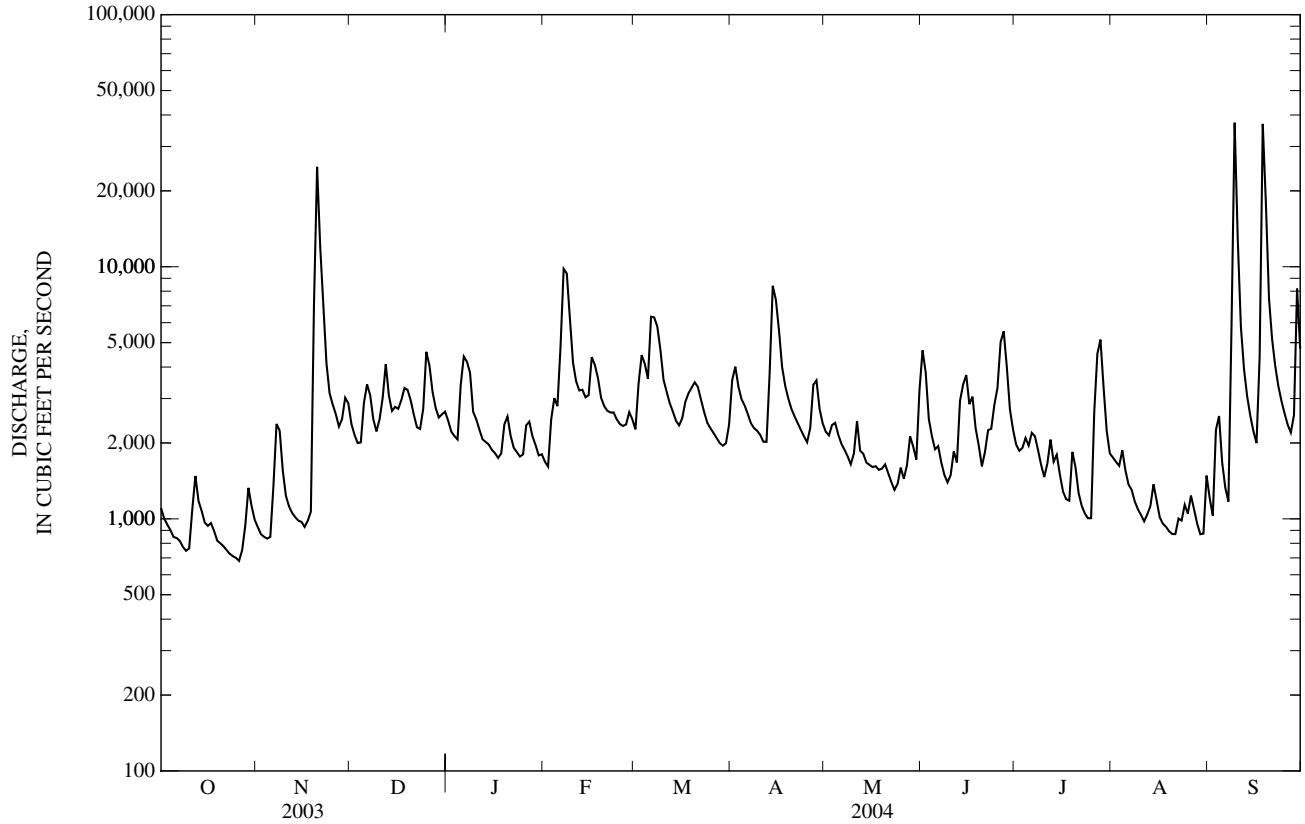
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	704	1,360	1,786	2,673	3,504	3,620	3,518	2,592	1,845	1,587	1,261	1,729
MAX	944	3,190	3,209	4,077	6,166	6,211	5,946	4,148	2,678	2,429	2,538	6,386
(WY)	(1997)	(2004)	(2003)	(1998)	(2003)	(1997)	(1998)	(1998)	(2004)	(2003)	(2003)	(2004)
MIN	458	535	653	1,268	1,784	2,515	1,673	1,398	775	679	422	556
(WY)	(2001)	(1999)	(2001)	(2001)	(2002)	(2000)	(1999)	(2002)	(2002)	(2002)	(2002)	(1998)

03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL TOTAL	1,111,616		1,008,642			
ANNUAL MEAN	3,046		2,756		2,327	
HIGHEST ANNUAL MEAN					2,995	2003
LOWEST ANNUAL MEAN					1,441	2002
HIGHEST DAILY MEAN	24,900	Nov 20	37,300	Sep 9	37,300	Sep 9, 2004
LOWEST DAILY MEAN	681	Oct 26	681	Oct 26	212	Sep 16, 2002
ANNUAL SEVEN-DAY MINIMUM	729	Oct 21	729	Oct 21	231	Sep 11, 2002
MAXIMUM PEAK FLOW			48,000	Sep 9	48,000	Sep 9, 2004
MAXIMUM PEAK STAGE			26.17	Sep 9	26.17	Sep 9, 2004
INSTANTANEOUS LOW FLOW			666	Oct 26	a208	Sep 13, 2002
10 PERCENT EXCEEDS	5,690		4,170		4,450	
50 PERCENT EXCEEDS	2,500		2,220		1,700	
90 PERCENT EXCEEDS	988		971		586	

a Also occurred Sept. 15, 16, 2002.



03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN—Continued

WATER-QUALITY RECORDS

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

DRAINAGE AREA.--1,687 mi^2.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	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)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)
NOV													
05...	1130	824	4.7	735	10.5	110	8.3	200	16.0	76	82	4	5.44
JAN													
23...	1200	1,820	--	741	13.9	105	8.2	241	2.5	87	106	--	7.03
FEB													
18...	1115	3,650	28	744	12.5	103	8.0	242	6.0	89	109	--	7.00
MAR													
24...	1100	2,180	6.5	746	11.2	101	8.0	210	10.0	82	100	--	6.64
APR													
19...	1115	2,950	25	741	9.2	96	7.9	181	16.0	69	84	--	4.93
MAY													
14...	1130	1,640	14	739	7.9	92	8.0	207	21.5	78	95	--	5.66
JUN													
09...	1145	1,340	17	738	8.8	104	8.2	203	22.0	82	100	--	5.59
JUL													
28...	1100	5,140	340	735	7.2	86	7.4	150	22.5	49	60	--	4.34

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	E coli, m-TEC MF, water, col/ 100 mL (31633)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)
NOV													
05...	9.1	<.04	.27	<.008	E.005	.019	--	K10	<.006	E.007	<.006	<.005	<.005
JAN													
23...	16.1	<.04	.86	<.008	<.006	.022	10	10	<.006	E.006	<.006	<.005	<.005
FEB													
18...	20.1	E.02	.84	E.005	.024	.083	200	--	--	--	--	--	--
MAR													
24...	12.9	<.04	.64	.022	<.006	.024	15	--	<.006	E.008	<.006	<.005	<.005
APR													
19...	10.1	<.04	.64	E.006	.007	.054	53	--	<.006	E.008	<.006	<.005	<.005
MAY													
14...	9.4	E.02	.68	.057	.015	.051	--	--	<.006	E.010	<.006	<.005	<.005
JUN													
09...	9.6	<.04	.77	E.006	.028	.062	56	--	<.006	E.010	<.006	<.005	<.005
JUL													
28...	8.3	E.03	.52	E.005	.070	.33	3,500	--	<.006	E.006	E.005	<.005	<.005

K--Results based on non-deal colony count.

03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Atrazine, water, fltrd, ug/L (39632)	Azinphos-methyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Diazinon, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)
NOV													
05...	.009	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02
JAN													
23...	.008	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02
FEB													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
24...	.009	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02
APR													
19...	.028	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02
MAY													
14...	.035	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02
JUN													
09...	.049	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	.006	<.009	<.02
JUL													
28...	.032	<.050	<.010	<.004	E.025	<.020	<.005	<.006	<.018	<.003	<.005	<.009	<.02

Date	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethalfluralin, water, fltrd 0.7u GF ug/L (82663)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	p,p-' DDE, water, fltrd, ug/L (34653)
NOV													
05...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	E.007	<.006	<.003	<.007	<.003
JAN													
23...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	E.011	<.006	<.003	<.007	<.003
FEB													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
24...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	E.007	<.006	<.003	<.007	<.003
APR													
19...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	E.009	<.006	<.003	<.007	<.005
MAY													
14...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.016	<.006	<.003	<.007	<.003
JUN													
09...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.085	<.006	<.003	<.007	<.003
JUL													
28...	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	.020	.022	<.003	<.007	<.003

E--Estimated

03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate water fltrd 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Terbufos, water, fltrd 0.7u GF ug/L (82675)
NOV													
05...	<.010	<.004	<.022	<.011	M	<.004	<.025	<.011	<.02	.006	<.02	<.034	<.02
JAN													
23...	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02
FEB													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
24...	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.008	<.02	<.034	<.02
APR													
19...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.009	E.01	<.034	<.02
MAY													
14...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.017	E.01	<.034	<.02
JUN													
09...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.025	<.02	<.034	<.02
JUL													
28...	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02

Date	Thiobencarb water fltrd 0.7u GF ug/L (82681)	Triallate, water, fltrd 0.7u GF ug/L (82678)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Suspended sediment concentration mg/L (80154)
NOV				
05...	<.010	<.002	<.009	13
JAN				
23...	<.010	<.002	<.009	39
FEB				
18...	--	--	--	30
MAR				
24...	<.010	<.002	<.009	8
APR				
19...	<.010	<.002	<.009	31
MAY				
14...	<.010	<.002	<.009	19
JUN				
09...	<.010	<.002	<.009	22
JUL				
28...	<.010	<.002	<.009	247

E--Estimated

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