03408500 NEW RIVER AT NEW RIVER, TN

LOCATION.--Lat 36°23'07", long 84°33'17", Scott County, Hydrologic Unit 05130104, on left bank at town of New River, 700 ft downstream from Phillips Creek, 1,000 ft downstream from bridge on U.S. Highway 27, 1.7 mi downstream from Brimstone Creek, and at mile 8.6.

DRAINAGE AREA.--382 mi^2.

PERIOD OF RECORD.--August 1934 to September 1991, October 1991 to September 1998, as stage only. October 1998 to current year. Gage-height records collected in this vicinity 1908-52 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 1436: Drainage area. WDR TN-73: 1939(M), 1951(M), 1970(M).

GAGE.--Water-stage recorder. Datum of gage is 1,092.67 ft above NGVD of 1929.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 63,700 ft^3/s, May 27, 1973, gage height, 37.91 ft, from high water mark in gage well, from rating curve extended above 27,000 ft^3/s on basis of slope-area and contracted-opening measurements of peak flow; no flow part of each day Aug. 12-14, 1944.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 23, 1929, reached a stage of 41.2 ft, discharge, 74,700 ft^3/s, estimated, based on field survey at old U.S. Weather Bureau gage, 1,200 ft upstream at datum 3.41 ft higher.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 6	1730	26,100	22.81	Sep 17	1830	*42,800	*30.21
Mar 6	1400	28,100	23.78				

Minimum discharge, 38 ft^3/s, Aug. 20, 21.

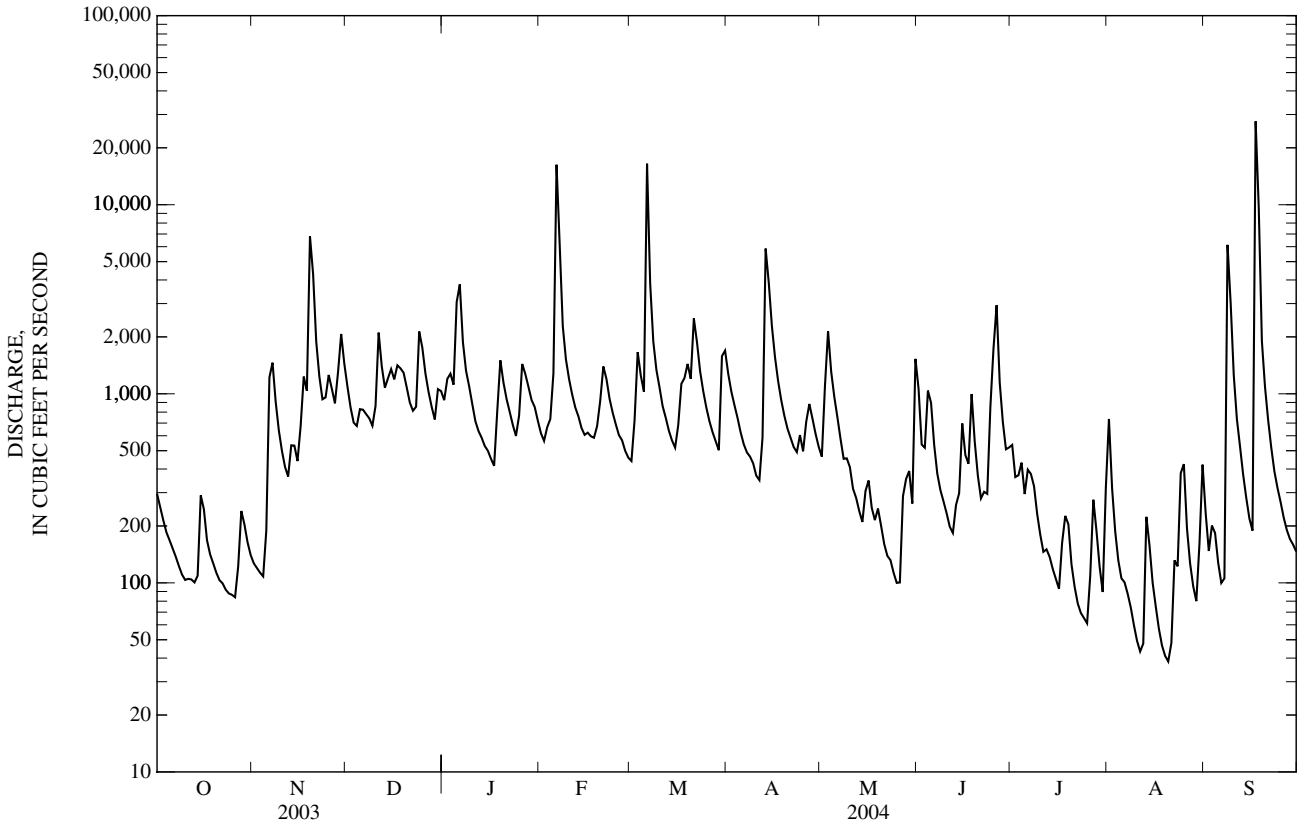
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	127	1,090	925	618	441	1,280	465	1,060	537	736	233
2	252	120	847	1,200	564	725	1,030	1,100	539	363	318	147
3	214	113	704	1,280	665	1,660	871	2,150	519	371	188	201
4	185	108	676	1,120	736	1,250	745	1,310	1,040	432	131	184
5	168	189	829	3,060	1,280	1,030	624	963	896	295	106	128
6	152	1,220	823	3,790	16,300	16,500	540	751	537	397	101	100
7	137	1,460	780	1,870	6,200	3,830	490	576	378	376	88	106
8	123	909	741	1,320	2,280	1,890	465	453	309	324	74	6,130
9	111	643	678	1,090	1,520	1,340	429	456	269	232	60	3,030
10	104	500	862	883	1,200	1,080	369	409	233	180	49	1,250
11	105	410	2,110	716	993	860	350	315	198	146	43	734
12	104	365	1,400	635	847	745	586	282	184	150	48	527
13	101	534	1,080	586	760	638	5,860	239	258	137	224	374
14	109	532	1,210	530	660	566	3,870	210	298	118	158	282
15	290	441	1,350	500	606	519	2,290	307	696	105	100	219
16	245	674	1,190	453	623	684	1,560	348	474	93	75	189
17	168	1,230	1,410	416	597	1,130	1,170	250	427	163	57	27,600
18	141	1,040	1,360	808	586	1,210	925	215	996	226	47	9,600
19	127	6,800	1,290	1,500	675	1,440	765	247	558	204	41	1,900
20	113	4,290	1,080	1,150	920	1,200	655	200	368	125	38	1,090
21	103	1,890	898	938	1,390	2,500	585	160	280	95	48	728
22	99	1,240	813	802	1,200	1,880	523	139	303	78	132	520
23	92	935	854	684	941	1,320	491	132	296	69	122	390
24	88	957	2,130	598	793	1,030	605	113	848	65	381	318
25	86	1,260	1,750	765	689	846	496	100	1,730	61	424	268
26	84	1,060	1,280	1,440	604	716	712	100	2,940	109	194	221
27	122	890	1,020	1,270	568	626	883	287	1,150	275	127	190
28	240	1,310	852	1,090	499	560	739	354	709	189	96	171
29	204	2,070	732	927	459	503	614	391	509	122	80	159
30	164	1,440	1,060	852	---	1,580	524	263	520	89	161	146
31	140	---	1,030	721	---	1,690	---	1,530	---	317	422	---
TOTAL	4,667	34,757	33,929	33,919	45,773	51,989	31,046	14,815	19,522	6,443	4,869	57,135
MEAN	151	1,159	1,094	1,094	1,578	1,677	1,035	478	651	208	157	1,904
MAX	296	6,800	2,130	3,790	16,300	16,500	5,860	2,150	2,940	537	736	27,600
MIN	84	108	676	416	459	441	350	100	184	61	38	100
CFSM	0.39	3.03	2.87	2.86	4.13	4.39	2.71	1.25	1.70	0.54	0.41	4.99
IN.	0.45	3.38	3.30	3.30	4.46	5.06	3.02	1.44	1.90	0.63	0.47	5.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2004, BY WATER YEAR (WY)

MEAN	138	505	1,073	1,373	1,483	1,526	1,090	680	361	272	163	164
MAX	1,035	2,683	3,359	4,206	3,891	4,371	2,564	3,095	2,850	1,986	1,159	1,904
(WY)	(1990)	(1958)	(1991)	(1937)	(1939)	(1975)	(1977)	(1973)	(1989)	(1967)	(1942)	(2004)
MIN	0.64	2.35	43.9	42.1	112	528	216	60.6	4.54	3.99	5.71	2.68
(WY)	(1953)	(1940)	(1966)	(1981)	(1941)	(2003)	(1942)	(1936)	(1936)	(1944)	(1936)	(1953)

03408500 NEW RIVER AT NEW RIVER, TN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1934 - 2004	
ANNUAL TOTAL	367,895		338,864			
ANNUAL MEAN	1,008		926		734	
HIGHEST ANNUAL MEAN					1,350	1973
LOWEST ANNUAL MEAN					341	1988
HIGHEST DAILY MEAN	24,800	Feb 16	27,600	Sep 17	a38,000	Dec 23, 1990
LOWEST DAILY MEAN	50	Aug 29	38	Aug 20	0.10	Aug 9, 1944
ANNUAL SEVEN-DAY MINIMUM	59	Aug 27	58	Aug 15	0.10	Aug 9, 1944
MAXIMUM PEAK FLOW			42,800	Sep 17	a63,700	May 27, 1973
MAXIMUM PEAK STAGE			30.21	Sep 17	b37.91	May 27, 1973
INSTANTANEOUS LOW FLOW			c38	Aug 20	d0.00	Aug 12, 1944
ANNUAL RUNOFF (CFSM)	2.64		2.42		1.92	
ANNUAL RUNOFF (INCHES)	35.83		33.00		26.11	
10 PERCENT EXCEEDS	1,830		1,470		1,620	
50 PERCENT EXCEEDS	509		537		262	
90 PERCENT EXCEEDS	120		105		17	

a Highest daily mean and instantaneous peak flows from rating curve extended above 27,000 ft^3/s on basis of slope-area and contracted opening measurements of peak flow.
b Maximum stage from high-water mark in gage well.
c Also occurred Aug. 21.
d Minimum discharge also occurred Aug. 13-15, 1944.