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. 12-15, 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)
Nov 12	1530	12,300	15.25	Dec 9	2230	16,200	17.38
Dec 1	0930	*26,400	*22.93				

Minimum discharge, 14 ft^3/s, Sept. 27.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	662	17,800	408	692	1,010	1,280	3,400	118	69	87	375
2	120	549	3,730	399	642	889	7,490	1,790	110	124	75	209
3	112	454	1,940	427	1,490	810	4,650	1,210	123	93	66	138
4	106	2,890	1,330	391	1,300	737	2,320	912	160	152	59	102
5	97	2,730	1,030	381	1,060	689	1,520	727	126	149	49	80
6	88	1,410	980	465	888	594	1,140	628	121	105	58	65
7	82	1,010	3,890	730	758	527	979	526	160	84	51	54
8	76	763	3,440	3,140	718	741	1,170	445	118	70	51	46
9	72	576	7,080	2,510	633	809	1,020	380	117	81	350	40
10	71	467	7,470	1,560	607	753	878	341	117	61	193	36
11	71	403	7,060	1,840	541	717	764	315	137	49	118	32
12	70	6,300	3,250	5,500	480	669	699	280	116	44	88	29
13	91	3,490	1,960	2,670	561	589	826	241	114	93	71	25
14	293	1,670	1,360	5,020	1,450	520	2,180	213	169	1,890	181	23
15	183	1,140	1,050	2,590	2,200	444	1,680	279	124	1,870	166	21
16	155	893	874	1,660	1,540	435	1,220	243	112	703	103	23
17	126	735	757	1,210	1,170	484	954	189	88	672	107	26
18	125	617	662	923	920	488	790	167	70	593	311	51
19	2,370	545	595	784	774	483	663	150	62	1,320	778	50
20	2,010	525	515	714	774	484	559	1,160	55	1,070	332	36
21	1,090	508	445	638	2,950	461	475	1,380	52	700	195	28
22	726	429	427	558	3,590	440	435	744	58	2,920	134	23
23	523	435	717	484	1,880	441	560	514	61	949	103	19
24	445	3,240	1,010	371	1,350	424	483	384	45	488	86	16
25	410	3,980	822	372	1,040	397	402	307	40	313	70	15
26	331	1,830	740	368	837	375	364	256	36	227	59	15
27	298	1,270	644	352	713	346	538	217	32	172	54	58
28	645	1,220	550	300	802	2,870	529	186	31	141	49	108
29	1,980	1,050	511	403	---	2,290	3,530	161	43	133	563	64
30	1,210	2,400	481	793	---	1,490	5,360	143	71	110	309	49
31	871	---	445	790	---	1,290	---	131	---	98	528	---
TOTAL	14,979	44,191	73,565	38,751	32,360	23,696	45,458	18,019	2,786	15,543	5,444	1,856
MEAN	483	1,473	2,373	1,250	1,156	764	1,515	581	92.9	501	176	61.9
MAX	2,370	6,300	17,800	5,500	3,590	2,870	7,490	3,400	169	2,920	778	375
MIN	70	403	427	300	480	346	364	131	31	44	49	15
CFSM	1.26	3.86	6.21	3.27	3.03	2.00	3.97	1.52	0.24	1.31	0.46	0.16
IN.	1.46	4.30	7.16	3.77	3.15	2.31	4.43	1.75	0.27	1.51	0.53	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2005, BY WATER YEAR (WY)

MEAN	143	520	1,093	1,371	1,478	1,514	1,097	678	357	275	163	163
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)

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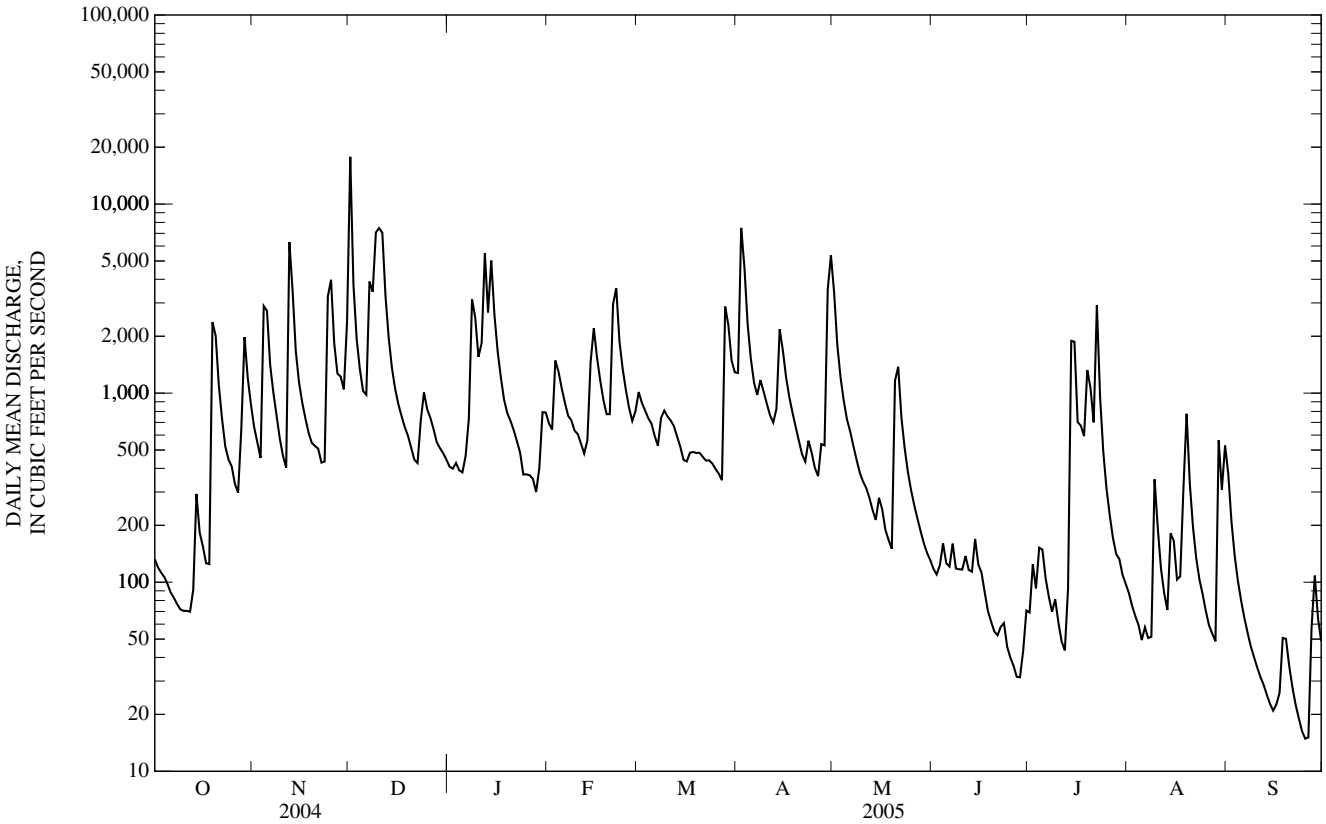
SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1934 - 2005	
ANNUAL TOTAL	398,246		316,648			
ANNUAL MEAN	1,088		868		736	
HIGHEST ANNUAL MEAN					1,350	1973
LOWEST ANNUAL MEAN					341	1988
HIGHEST DAILY MEAN	27,600	Sep 17	17,800	Dec 1	a38,000	Dec 23, 1990
LOWEST DAILY MEAN	38	Aug 20	15	Sep 25	0.10	Aug 9, 1944
ANNUAL SEVEN-DAY MINIMUM	58	Aug 15	22	Sep 20	0.10	Aug 9, 1944
MAXIMUM PEAK FLOW			26,400	Dec 1	a63,700	May 27, 1973
MAXIMUM PEAK STAGE			22.93	Dec 1	b37.91	May 27, 1973
INSTANTANEOUS LOW FLOW			14	Sep 27	c0.00	Aug 12, 1944
ANNUAL RUNOFF (CFSM)	2.85		2.27		1.93	
ANNUAL RUNOFF (INCHES)	38.78		30.84		26.18	
10 PERCENT EXCEEDS	1,950		1,990		1,630	
50 PERCENT EXCEEDS	554		475		265	
90 PERCENT EXCEEDS	106		57		18	

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 Minimum discharge also occurred Aug. 13-15, 1944.