03176500 NEW RIVER AT GLEN LYN, VA

LOCATION.--Lat 37°22'22", long 80°51'38", NAD83, Giles County, Hydrologic Unit 05050002, on right bank 90 ft upstream from bridge on U.S. Highway 460 at Glen Lyn, 0.3 mi upstream from East River, and 6.3 mi downstream from Wolf Creek.

DRAINAGE AREA.--3,768 mi^2.

PERIOD OF RECORD.--August 1927 to current year.

REVISED RECORDS.--WSP 758: Drainage area. WSP 1305: 1928(M), 1930(M).

GAGE.--Water-stage recorder. Datum of gage is 1,490.11 ft above sea level. Aug. 11, 1927, to Oct. 16, 1934, on left bank opposite present site at same datum, and Oct. 17, 1934, to June 16, 1939, on left bank at site 200 ft upstream at same datum.

REMARKS.--Records good except for period of partial gage-height record, Apr. 3-4, which is fair. Flow regulated since 1939 by Claytor Reservoir (station 03169000) 55 mi upstream from station. Statistics of monthly mean data and summary statistics for water years 1928-1938 (unregulated flow) are available in previous data books, water years 1991-1998. Water withdrawn by American Electric Power at gage. U.S. Army Corps of Engineers satellite gage-height telemeter at station. Maximum discharge, 226,000 ft^3/s, from rating curve extended above 89,000 ft^3/s on basis of slope-area measurement of peak flow. Minimum gage height, 2.10 ft, Sep. 8, 1930. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1860	1210	2790	1520	2680	3760	14600	1600	5030	3060	12600	2230
2	1520	1200	2960	1500	2120	4220	10200	1580	5330	2660	8730	2250
3	1510	1240	1810	1760	2350	3480	e10400	1620	4820	2550	4490	2300
4	1400	1220	1690	1590	1710	2000	e7330	1600	4280	2910	5130	2140
5	1410	1200	1570	1360	1530	1880	7800	1620	4080	2720	4760	2100
6	1540	1190	1530	1290	1850	2670	8150	1620	4160	2680	4090	1860
7	1750	1200	1510	1250	1670	3180	7180	1560	5650	2500	3490	1840
8	1470	1210	1600	1330	1880	4320	4030	1530	6100	3460	3110	1800
9	1290	1300	1590	1640	2070	3730	2580	2440	5510	7960	2860	1730
10	1300	1700	1500	1570	1900	2910	5040	1610	4930	6180	2670	1750
11	1250	1840	1610	1650	1500	1970	4570	1720	3930	4900	2260	1640
12	1250	2280	1650	1440	1420	1920	4310	1820	3630	3630	2800	1760
13	1290	2010	1620	1360	1750	3090	3810	1950	3140	2990	3440	2060
14	1310	1970	1710	1320	1600	2880	2300	1660	2960	2400	3920	1730
15	1390	1600	1770	1340	1760	3010	2940	1730	2770	1770	4220	1640
16	1400	1780	1890	1580	2520	4390	3260	3460	2860	1610	3660	1560
17	1270	1850	1860	1800	3390	4100	2800	14200	3040	1850	2760	1400
18	1260	2070	2310	1810	4880	3360	2820	16900	2460	2240	2800	1360
19	1250	1540	4080	1880	6810	2280	2880	10200	2670	1990	2450	1320
20	1290	1480	3500	2930	4850	3950	2650	7060	2330	1730	2070	1390
21	1240	1930	2390	5530	3360	3420	2770	8080	1950	1960	2560	1410
22	1220	2350	2040	6500	3430	4980	2710	22500	2020	1920	2420	1440
23	1250	2390	2010	4290	3370	7600	2600	29800	2330	2070	2000	1520
24	1230	1730	1730	3670	3490	7180	2810	17500	3230	1760	1940	1480
25	1210	1580	1600	3050	2000	6740	2550	13100	2960	1640	2190	1840
26	1240	1900	1630	3220	3070	4800	1940	19200	2770	1520	1880	2140
27	1260	2110	2380	2340	3440	5330	2500	17500	3560	2450	1800	2020
28	1240	3800	1880	1700	3550	5000	4160	11000	4390	3900	1900	1520
29	1200	3960	1770	1600	---	5010	3970	8880	3830	10600	1910	1430
30	1190	3260	1670	2370	---	10800	2120	7480	3240	23400	1680	1340
31	1190	---	1570	2540	---	19000	---	5550	---	19100	2110	---
TOTAL	41480	56100	61220	68730	75950	142960	137780	238070	109960	132110	104700	52000
MEAN	1338	1870	1975	2217	2712	4612	4593	7680	3665	4262	3377	1733
MAX	1860	3960	4080	6500	6810	19000	14600	29800	6100	23400	12600	2300
MIN	1190	1190	1500	1250	1420	1880	1940	1530	1950	1520	1680	1320
(†)	-1310	-7410	+454	+3880	+4130	+1510	-3580	+2320	-302	+1460	-1310	+151
MEAN‡	1296	1623	1989	2342	2860	4660	4473	7755	3655	4309	3335	1738
CFSM‡	.34	.43	.53	.62	.76	1.24	1.19	2.06	.97	1.14	.89	.46
IN.‡	.40	.48	.61	.72	.79	1.43	1.32	2.37	1.08	1.32	1.02	.51

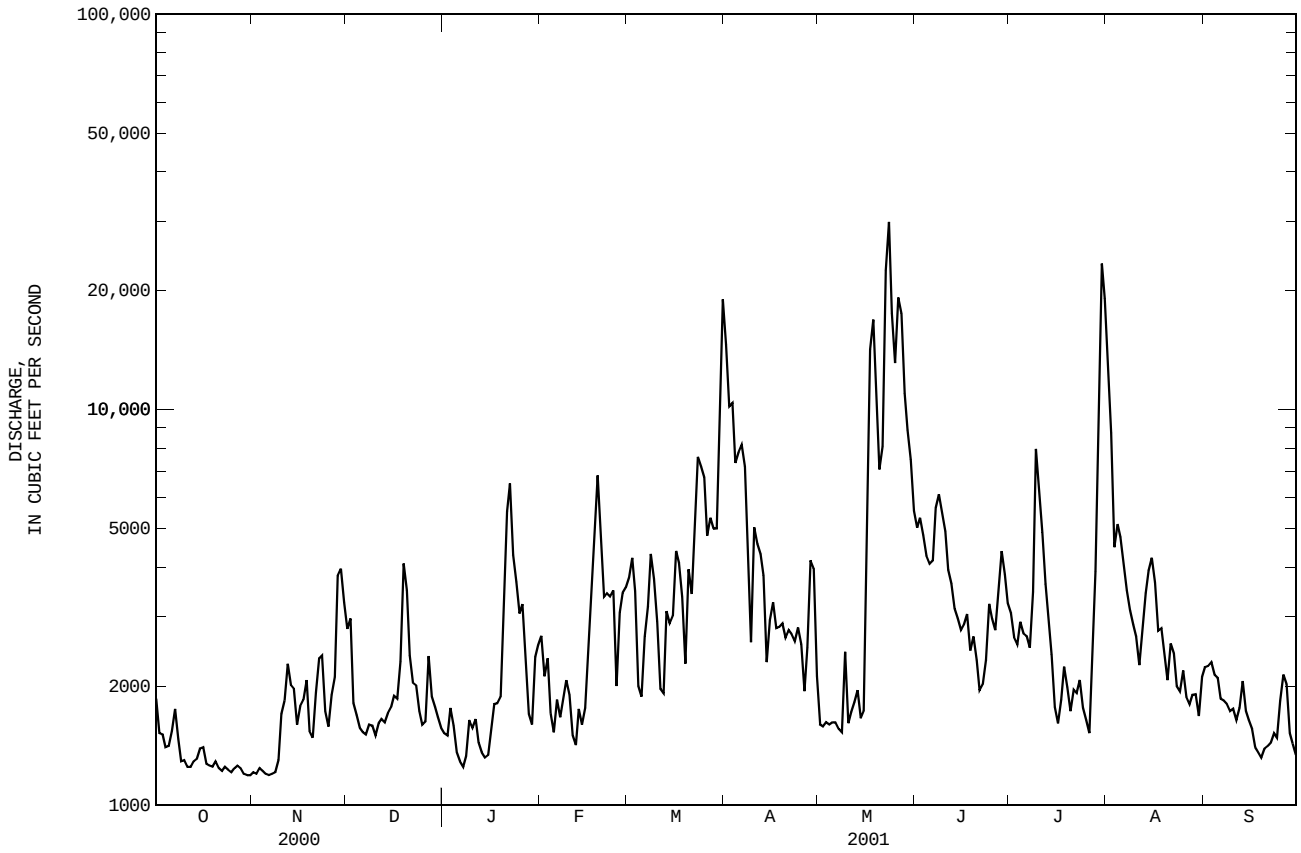
CAL YR 2000 MEAN‡ 3002 CFSM‡ .80 In.‡ 10.85
WTR YR 2001 MEAN‡ 3345 CFSM‡ .89 In.‡ 12.05

† Total change in contents, equivalent in cubic feet per second, per month, in Claytor Reservoir; provided by American Electric Power.
‡ Adjusted for monthly change in contents and water withdrawal.

03176500 NEW RIVER AT GLEN LYN, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3149	3674	4597	5876	7382	8325	7362	5985	4420	3265	3161	2814
MAX	9882	12450	10910	13290	15810	18650	20890	11270	12860	9784	16410	11500
(WY)	1990	1978	1949	1996	1957	1993	1987	1984	1992	1949	1940	1989
MIN	1204	1258	1305	1489	2712	2407	2673	2397	1373	1390	1093	1127
(WY)	1989	1982	1998	1966	2001	1988	1986	1941	1999	1988	1999	1998

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	1106320		1221060			
ANNUAL MEAN	3023		3345		4988	
HIGHEST ANNUAL MEAN					7424	1949
LOWEST ANNUAL MEAN					2626	1988
HIGHEST DAILY MEAN	16700	Apr 19	29800	May 23	126000	Aug 15 1940
LOWEST DAILY MEAN	1190	aOct 30	1190	aOct 30	b557	Aug 19 1999
ANNUAL SEVEN-DAY MINIMUM	1210	Oct 29	1210	Oct 29	b646	Aug 13 1999
MAXIMUM PEAK FLOW			33200	May 23	226000	Aug 14 1940
MAXIMUM PEAK STAGE			9.82	May 23	27.50	Aug 14 1940
INSTANTANEOUS LOW FLOW			1060	Oct 31	b449	cAug 13 1999
ANNUAL RUNOFF (CFSM)	.80		.89		1.32	
ANNUAL RUNOFF (INCHES)	10.92		12.06		17.99	
10 PERCENT EXCEEDS	5560		5830		9600	
50 PERCENT EXCEEDS	2220		2140		3630	
90 PERCENT EXCEEDS	1350		1340		1530	

a Also Oct. 31 and Nov. 6, 2000.
b Affected by withdrawals.
c Also Aug. 19, 1999.
e Estimated.