03168000 NEW RIVER AT ALLISONIA, VA

LOCATION.--Lat 36°56'15", long 80°44'45", Pulaski County, Hydrologic Unit 05050001, on left bank on State Highway 653, 0.2 mi downstream from Big Reed Island Creek, and 0.5 mi upstream from Allisonia.

DRAINAGE AREA.--2,202 mi^2.

PERIOD OF RECORD.--September 1929 to current year.

REVISED RECORDS.--WSP 783: Drainage area. WSP 823: 1936. WSP 1305: 1933(M).

GAGE.--Water-stage recorder. Datum of gage is 1,848.36 ft above sea level.

REMARKS.--Records good except those for period with ice effect, Jan. 7, and period of no gage-height record, Jul. 6-9, which are fair. Large diurnal fluctuation and some regulation by powerplant 25 mi upstream from station. U.S. Army Corps of Engineers satellite gage-height telemeter at station. American Electric Power gage-height transmitter at station. Maximum discharge, 185,000 ft^3/s, from rating curve extended above 52,000 ft^3/s on basis of flood records for other stations on New River. Minimum gage height, 0.47 ft, Sep. 7, 1930. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 17,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 24	1645	*13,000	*4.71	No peak greater than base discharge.			

Minimum discharge, 586 ft^3/s, Aug 15-16, gage height, 0.87 ft.

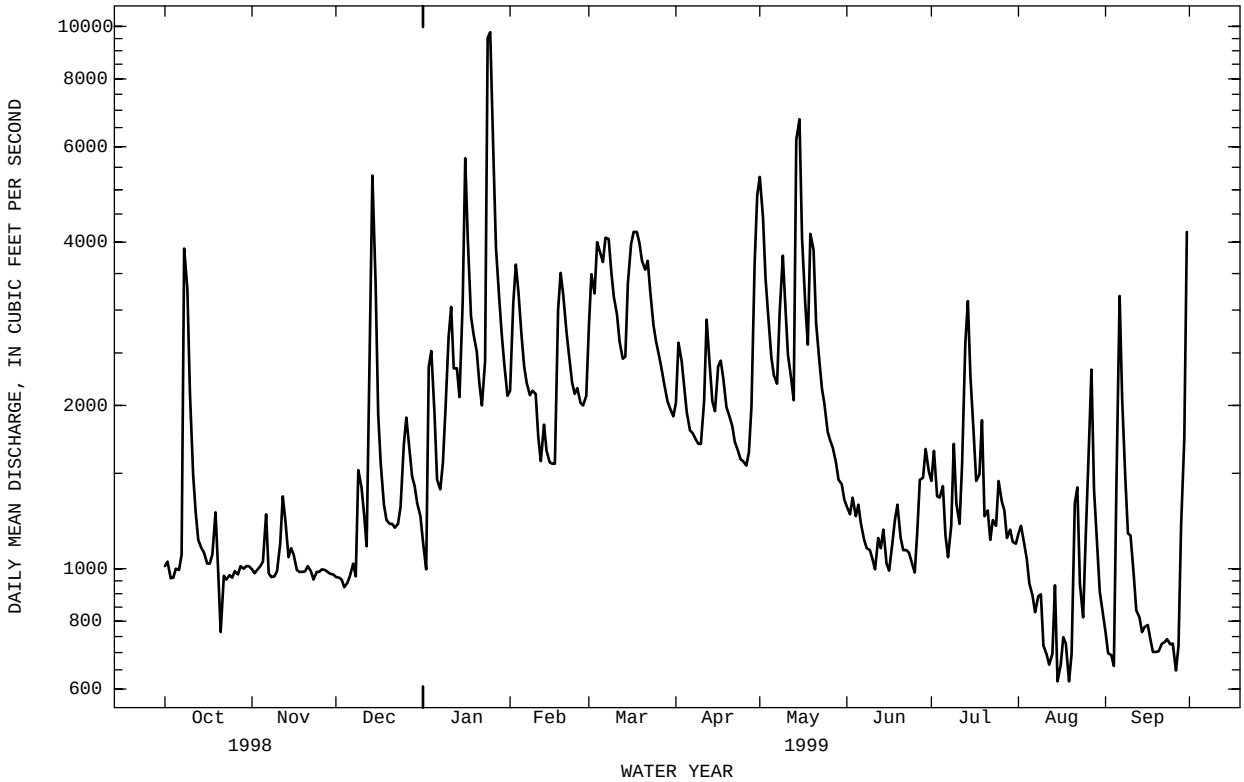
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	996	966	1120	2130	2780	2020	5280	1300	1450	1160	764
2	1030	981	962	997	3090	3490	2610	4450	1260	1650	1200	699
3	959	993	953	2350	3630	3220	2410	3420	1350	1360	1110	692
4	962	1010	923	2520	3240	4000	2160	2840	1250	1350	1040	661
5	1000	1030	942	1930	2680	3850	1940	2460	1310	1420	940	1430
6	993	1260	971	1460	2360	3670	1800	2270	1210	e1150	892	3180
7	1060	980	1020	e1400	2200	4070	1780	2190	1130	e1050	831	2050
8	3890	966	967	1560	2090	4050	1730	2960	1090	e1200	889	1460
9	3280	968	1520	1950	2130	3540	1700	3780	1080	e1700	897	1160
10	2110	988	1410	2670	2100	3170	1700	3040	1040	1320	721	1150
11	1490	1110	1260	3040	1750	2940	2030	2480	997	1210	694	974
12	1270	1360	1100	2340	1580	2620	2880	2240	1140	1560	664	837
13	1130	1230	2650	2340	1840	2440	2350	2040	1090	2600	696	813
14	1090	1050	5300	2070	1650	2460	2030	6180	1180	3110	932	763
15	1070	1090	3360	3100	1570	3360	1950	6740	1020	2260	620	780
16	1020	1060	1930	5710	1560	3960	2360	4060	991	1780	665	787
17	1020	993	1560	4040	1560	4180	2420	3080	1110	1450	748	742
18	1060	986	1310	2920	3000	4170	2240	2590	1230	1490	728	702
19	1270	986	1230	2700	3510	3990	1980	4140	1310	1880	619	701
20	996	988	1210	2510	3200	3690	1920	3870	1140	1250	696	704
21	764	1010	1210	2200	2740	3560	1830	2830	1080	1280	1320	727
22	970	989	1190	2000	2480	3690	1710	2420	1080	1130	1410	731
23	954	955	1210	2410	2200	3230	1660	2150	1070	1230	936	742
24	973	986	1300	9520	2100	2810	1590	2010	1030	1200	812	726
25	961	987	1690	9760	2150	2620	1580	1790	982	1450	1140	728
26	989	996	1900	5770	2020	2460	1550	1720	1170	1330	1680	648
27	975	994	1700	3900	2000	2320	1640	1670	1460	1280	2330	721
28	1010	987	1480	3160	2080	2180	1990	1570	1470	1140	1400	1200
29	999	979	1420	2700	---	2030	3660	1460	1660	1180	1100	1730
30	1010	974	1320	2380	---	1970	4870	1430	1510	1120	907	4180
31	1010	---	1250	2080	---	1910	---	1340	---	1110	824	---
TOTAL	38325	30882	47214	94607	64640	98430	64090	90500	35740	45690	30601	33182
MEAN	1236	1029	1523	3052	2309	3175	2136	2919	1191	1474	987	1106
MAX	3890	1360	5300	9760	3630	4180	4870	6740	1660	3110	2330	4180
MIN	764	955	923	997	1560	1910	1550	1340	982	1050	619	648
CFSM	.56	.47	.69	1.39	1.05	1.44	.97	1.33	.54	.67	.45	.50
IN.	.65	.52	.80	1.60	1.09	1.66	1.08	1.53	.60	.77	.52	.56

03168000 NEW RIVER AT ALLISONIA, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2290	2598	2993	3809	4487	5052	4568	3743	2867	2264	2196	1997
MAX	6561	9597	6125	8600	9195	10870	11880	7736	8552	6230	11570	8448
(WY)	1990	1978	1962	1995	1998	1993	1987	1973	1992	1949	1940	1989
MIN	726	853	1007	1018	1041	1554	1685	1406	1067	744	850	743
(WY)	1931	1932	1966	1956	1934	1988	1942	1941	1988	1930	1988	1930

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1930 - 1999	
ANNUAL TOTAL	1440727		673901			
ANNUAL MEAN	3947		1846		3232	
HIGHEST ANNUAL MEAN					4761	1978
LOWEST ANNUAL MEAN					1681	1988
HIGHEST DAILY MEAN	32900	Apr 20	9760	Jan 25	95000	Aug 14 1940
LOWEST DAILY MEAN	764	Oct 21	619	Aug 19	453	Sep 6 1930
ANNUAL SEVEN-DAY MINIMUM	941	Oct 21	713	Aug 10	555	Sep 3 1930
INSTANTANEOUS PEAK FLOW			13000	Jan 24	185000	Aug 14 1940
INSTANTANEOUS PEAK STAGE			4.71	Jan 24	23.42	Aug 14 1940
INSTANTANEOUS LOW FLOW			586	aAug 15	412	Sep 7 1930
ANNUAL RUNOFF (CFSM)	1.79		.84		1.47	
ANNUAL RUNOFF (INCHES)	24.34		11.38		19.94	
10 PERCENT EXCEEDS	7880		3380		5820	
50 PERCENT EXCEEDS	2510		1450		2420	
90 PERCENT EXCEEDS	987		895		1100	

a Also Aug 16, 1999.
e Estimated.