

KANAWHA RIVER BASIN

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 mi².

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 for period with ice effect, Jan. 23 to Feb. 7, which is poor. 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 ft³/s, from rating curve extended above 52,000 ft³/s on basis of flood records for other stations on New River. Minimum gage height, 0.47 ft, Sept. 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 21	1230	*14,600	*5.01	No peak greater than base discharge.			

Minimum discharge, 679 ft³/s, July 18, 19, gage height, 1.05 ft.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2490	893	1600	1260	e860	1770	2050	3440	1250	2930	1780	1190
2	1580	1050	1510	1210	e860	1670	1950	3120	1130	1910	2420	2170
3	1230	2610	1410	1170	e900	1560	1940	2790	1120	1470	4060	2140
4	1090	2920	1390	1190	e960	1380	3300	2620	1120	1320	4550	2500
5	1000	1800	1300	1200	e1000	1450	6110	2440	1070	1550	3640	2400
6	975	1420	1290	1190	e1000	1320	4810	2340	1580	1900	2510	1870
7	945	1320	1280	1160	e1100	1020	3810	2200	1610	1940	1990	1470
8	913	1210	1290	1100	1250	1330	3220	2150	1320	1690	1590	1340
9	906	1150	1230	1140	1320	1350	2830	1920	1080	1410	2350	1190
10	972	1130	1290	1760	1440	1220	2680	1930	1070	1210	2890	1140
11	1370	1090	1430	3250	2020	1440	2360	1770	955	1070	2400	1020
12	1490	1060	1480	3110	2980	3010	2260	1700	941	1070	1930	1020
13	1610	1100	1470	2290	4940	4430	2130	1600	903	1230	1490	955
14	1190	1110	2170	1890	5760	3320	2240	1530	901	1500	1320	924
15	975	1060	3370	1620	8580	2610	2370	1470	1200	1420	1180	1120
16	892	998	3020	1590	5850	2250	2660	1390	1300	1120	1070	984
17	1020	986	2200	1490	4130	2320	3850	1360	1540	1080	1020	772
18	955	933	1870	1510	3540	2390	9720	1390	2140	790	997	787
19	955	942	1690	1470	3810	2290	9180	1350	1360	815	977	1030
20	992	923	1620	1590	3930	3070	6050	1440	1170	895	931	1220
21	1190	940	1680	1150	3580	11000	4670	1390	1130	833	928	1100
22	1200	1010	1700	955	3000	8800	4230	1720	1070	838	922	1250
23	1120	1060	1640	e900	2640	5550	3710	1390	1000	958	948	780
24	1010	1050	1500	e860	2310	4260	3270	1460	982	1630	879	882
25	982	1030	1390	e900	2180	3560	3530	1390	990	1400	981	992
26	935	2940	1160	e900	1950	3170	5170	1460	931	1490	1210	1560
27	920	6600	1180	e850	1910	2840	5100	1770	1250	1210	1120	1360
28	907	4110	1340	e800	2500	2560	4310	1520	2690	1060	1140	1310
29	909	2520	1220	e860	1990	2460	4080	1380	6220	1280	1270	1020
30	899	1970	1270	e860	---	2300	3870	1460	4320	1500	984	977
31	892	---	1230	e860	---	2150	---	1340	---	1350	995	---
TOTAL	34514	48935	49220	42085	78290	89850	117460	56230	45343	41869	52472	38473
MEAN	1113	1631	1588	1358	2700	2898	3915	1814	1511	1351	1693	1282
MAX	2490	6600	3370	3250	8580	11000	9720	3440	6220	2930	4550	2500
MIN	892	893	1160	800	860	1020	1940	1340	901	790	879	772
CFSM	.51	.74	.72	.62	1.23	1.32	1.78	.82	.69	.61	.77	.58
IN.	.58	.83	.83	.71	1.32	1.52	1.98	.95	.77	.71	.89	.65

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03168000 NEW RIVER AT ALLISONIA, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2273	2585	2973	3775	4461	5022	4559	3715	2848	2251	2189	1987
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1930 - 2000	
ANNUAL TOTAL	690149		694741			
ANNUAL MEAN	1891		1898		3213	
HIGHEST ANNUAL MEAN					4761	
LOWEST ANNUAL MEAN					1681	
HIGHEST DAILY MEAN	9760		Jan 25		95000	
LOWEST DAILY MEAN	619		Aug 19		453	
ANNUAL SEVEN-DAY MINIMUM	713		Aug 10		555	
INSTANTANEOUS PEAK FLOW					14600	
INSTANTANEOUS PEAK STAGE					5.01	
INSTANTANEOUS LOW FLOW					679	
ANNUAL RUNOFF (CFSM)	.86		.86		1.46	
ANNUAL RUNOFF (INCHES)	11.66		11.74		19.83	
10 PERCENT EXCEEDS	3390		3550		5800	
50 PERCENT EXCEEDS	1510		1390		2400	
90 PERCENT EXCEEDS	892		927		1100	

a Also July 19, 2000.
e Estimated.

