

JUNIATA RIVER BASIN

01567000 JUNIATA RIVER AT NEWPORT, PA

LOCATION.--Lat 40°28'42", long 77°07'46", Perry County, Hydrologic Unit 02050304, on right bank at downstream side of bridge on State Highway 34 at Newport, and 1,000 ft upstream from Little Buffalo Creek.

DRAINAGE AREA.--3,354 mi².

PERIOD OF RECORD.--April 1899 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 781: 1902(M). WSP 1302: 1915-17. WSP 1502: 1899-1908, 1914, 1924, 1936. WSP 1722: 1916.

GAGE.--Water-stage recorder. Datum of gage is 363.93 ft above sea level. Prior to July 16, 1929, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges and Aug. 6-Sept. 30, which are poor. Flow regulated since October 1972 by Raystown Dam (station 01563100) about 75 mi upstream. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1, 1889, reached a stage of 35.9 ft, from floodmarks, discharge, about 209,000 ft³/s, from rating curve extended above 100,000 ft³/s.

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	915	1400	1080	e1030	4020	1880	4790	4440	1290	1170	703	969
2	879	1400	1080	e1020	3920	2120	4770	3950	1270	1210	712	865
3	791	1400	1020	e1250	4690	2120	4780	3440	1330	1160	712	802
4	777	1290	1060	e1060	4870	6150	4690	3280	1340	1040	736	783
5	802	1190	1070	e1060	4430	13400	4540	3130	1430	981	748	780
6	756	1090	1020	e1100	4220	8090	6520	2860	1330	943	680	965
7	813	843	1070	e1300	3880	6170	6530	2700	1190	891	601	2860
8	987	829	1070	e1090	3770	5140	5690	4360	1150	816	667	1890
9	1470	829	1050	e1000	3780	4350	5210	7380	1090	789	624	1520
10	2010	840	1050	e1070	3710	4010	13000	5790	1060	809	567	1490
11	2130	877	1080	e1250	3390	3750	24100	4730	1050	839	537	1320
12	1580	933	1080	e1080	3320	3510	20400	3880	1020	819	681	1070
13	1280	927	1080	e1200	3360	3370	17700	3230	985	809	637	968
14	1200	961	1040	e1600	3200	3460	13700	3050	1000	822	1290	890
15	1170	898	1030	e1450	2990	3730	10900	3130	1080	794	1900	887
16	1310	862	1030	e1380	e2800	3900	9100	2940	1030	762	1840	1460
17	1680	922	1050	e1360	e2650	4520	7810	2700	1050	746	1200	3330
18	1870	1110	1030	e1700	2560	7560	7060	2600	1270	775	843	2080
19	1800	1100	1010	e2100	2550	12800	6150	2120	1370	767	684	1680
20	1660	1110	1020	e1950	2480	11800	5230	2030	1480	782	3060	1410
21	1640	1130	1050	e2300	2250	9930	5110	1940	1190	787	3080	1260
22	1510	1070	1040	e2000	2140	13500	5300	1850	1070	1110	1250	1290
23	1460	1100	1000	e2800	1960	16300	6970	1800	1030	1180	1020	1140
24	1450	1120	1030	e18000	1830	14500	9880	2020	962	871	947	1030
25	1430	1130	1090	22300	1710	12200	9690	2280	941	893	866	969
26	1430	1120	1100	11900	1780	8970	8540	2160	912	890	863	874
27	1420	1150	1050	7410	1710	6430	7850	1940	906	786	3460	847
28	1400	1100	1130	5710	1750	5830	6890	1670	926	728	2530	833
29	1430	1100	1020	5770	---	5460	5810	1520	975	724	2210	934
30	1430	1040	976	6560	---	5190	4890	1400	1090	708	1460	3760
31	1420	---	900	4980	---	4950	---	1330	---	679	1080	---
TOTAL	41900	31871	32406	115780	85720	215090	253600	91650	33817	27080	38188	40956
MEAN	1352	1062	1045	3735	3061	6938	8453	2956	1127	874	1232	1365
MAX	2130	1400	1130	22300	4870	16300	24100	7380	1480	1210	3460	3760
MIN	756	829	900	1000	1710	1880	4540	1330	906	679	537	780

e Estimated.

JUNIATA RIVER BASIN

01567000 JUNIATA RIVER AT NEWPORT, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1999, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2722	3760	5190	5020	6484	8889	8364	5589	3374	2252	1510	1933
MAX (WY)	11610	10850	13770	15810	15070	23500	25780	13940	8510	12080	3637	13220
MIN (WY)	1977	1998	1973	1996	1984	1994	1993	1978	1982	1989	1979	1996
MIN (WY)	730	871	1045	495	1779	2576	2898	2363	1084	864	774	586
(WY)	1992	1979	1999	1981	1980	1990	1995	1977	1991	1988	1995	1986

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1973 - 1999	
ANNUAL TOTAL	2025969		1008058			
ANNUAL MEAN	5551		2762		4579	
HIGHEST ANNUAL MEAN					7166	
LOWEST ANNUAL MEAN					2271	
HIGHEST DAILY MEAN	34200		Jan 9	24100	Apr 11	92300
LOWEST DAILY MEAN	756		Oct 6	537	Aug 11	450
ANNUAL SEVEN-DAY MINIMUM	819		Oct 1	616	Aug 7	461
INSTANTANEOUS PEAK FLOW			26200		Jan 24	a103000
INSTANTANEOUS PEAK STAGE			11.59		Jan 24	24.69
10 PERCENT EXCEEDS	15600		6160		10400	
50 PERCENT EXCEEDS	2010		1330		2720	
90 PERCENT EXCEEDS	956		811		845	

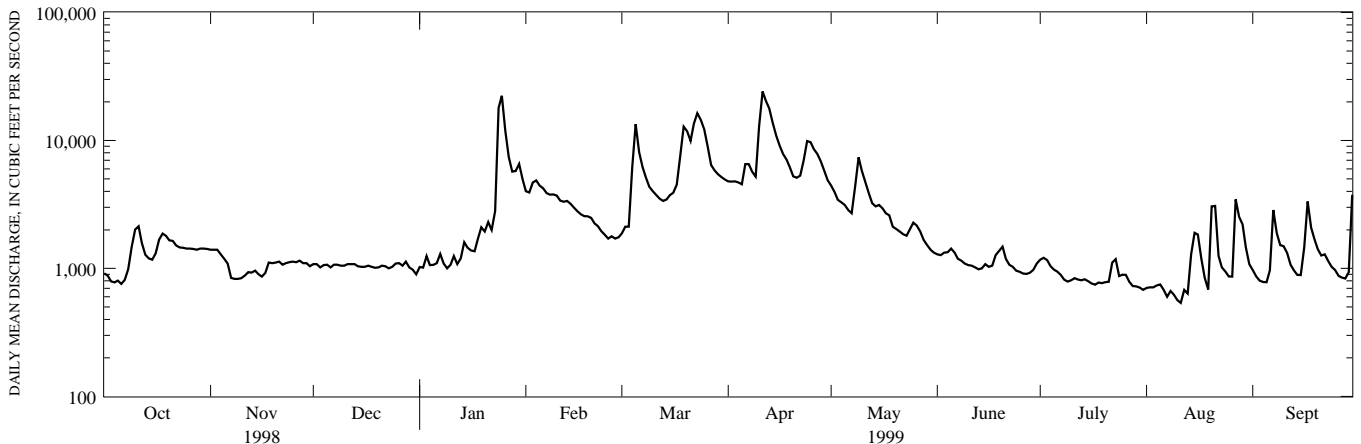
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1820	2658	3649	4621	5570	9856	8097	5797	3612	2072	1563	1419
MAX (WY)	8108	10880	11310	13300	16160	33600	17160	14870	25050	7865	4605	6890
MIN (WY)	1928	1951	1902	1937	1915	1936	1940	1908	1972	1972	1905	1911
MIN (WY)	351	418	471	841	943	2340	2026	1319	890	455	327	370
(WY)	1964	1931	1931	1931	1934	1931	1915	1941	1965	1966	1966	1964

SUMMARY STATISTICS WATER YEARS 1899 - 1972

ANNUAL MEAN	4228	
HIGHEST ANNUAL MEAN	7403	1972
LOWEST ANNUAL MEAN	2166	1969
HIGHEST DAILY MEAN	172000	Mar 19 1936
LOWEST DAILY MEAN	207	Jul 27 1966
ANNUAL SEVEN-DAY MINIMUM	269	Aug 3 1966
INSTANTANEOUS PEAK FLOW	a190000	Mar 19 1936
INSTANTANEOUS PEAK STAGE	b34.24	Mar 19 1936
INSTANTANEOUS LOW FLOW	195	Jul 27 1966
ANNUAL RUNOFF (CFSM)	1.26	
ANNUAL RUNOFF (INCHES)	17.13	
10 PERCENT EXCEEDS	9360	
50 PERCENT EXCEEDS	2300	
90 PERCENT EXCEEDS	680	

a From rating curve extended above 100,000 ft³/s, on basis of slope-area measurement of peak flow.
 b From floodmark in gage.



1-YEAR HYDROGRAPH
 OCTOBER 1, 1998 TO SEPTEMBER 30, 1999