

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 fair except those for estimated daily discharges, 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	809	796	1880	e1860	e5300	2750	8680	3430	1910	1450	895	757
2	816	766	1940	e1810	e6750	2640	7200	2940	1940	1600	877	730
3	832	821	1770	e1750	e6100	2520	6510	2700	2160	1560	862	708
4	812	841	1600	e1600	e4620	2450	6270	2500	2990	1470	856	734
5	802	819	1540	e1580	3430	2550	5650	2300	2570	1480	859	662
6	733	783	1510	e1580	2840	2580	5330	2230	2320	1440	1040	620
7	747	775	e1460	e1580	2660	2620	5530	2070	2020	1330	1180	588
8	775	763	e1420	e1630	2720	2670	5830	1920	1870	1280	979	574
9	865	770	e1400	e1630	2760	2990	5830	1920	1740	1320	856	556
10	851	1020	e1370	e1630	2970	3310	6150	1860	1650	1230	831	548
11	788	1510	e1290	e1580	3470	3550	10400	1850	1580	1290	832	531
12	770	2020	e1320	e1500	4000	3490	10900	1770	1500	1160	855	520
13	792	1650	e1310	e1450	3560	3850	10700	1690	1440	1080	1030	529
14	918	1290	e1320	e1400	3230	7260	9080	1650	1650	1070	928	539
15	737	1120	e1280	e1400	3600	10800	7360	1630	1490	1050	841	576
16	742	1010	e1390	e1400	4120	10100	8830	1570	1370	893	795	568
17	811	1100	e3400	e1460	4800	9410	20800	1380	1630	940	775	544
18	1740	1230	e4500	e1540	5360	9900	21500	1290	1820	921	756	550
19	2270	1200	e4000	e1630	5060	9590	14400	1260	1800	972	779	544
20	2990	1180	e3500	e1770	4630	7710	10900	1250	1500	943	880	560
21	2160	1170	e2800	e1990	4470	6910	8860	1270	2800	902	939	598
22	1450	1140	e2500	e2090	4240	11400	7830	1400	3790	886	1040	603
23	1250	1120	e1800	e1850	4000	14600	6740	1690	5220	870	1060	619
24	1130	1120	e2000	e1660	3760	12500	5840	2010	4490	855	863	712
25	1050	1090	e2100	e1720	3720	9700	5300	2670	4410	849	736	942
26	1010	1250	e2220	e1690	3210	8140	4960	4160	2990	1160	700	990
27	954	1750	e2130	e1640	3090	7010	4650	4720	2620	1070	683	1060
28	919	2390	e2220	e1510	2980	5760	4130	4340	2170	993	657	987
29	868	2400	e1990	e1510	---	5280	3810	3670	1740	1030	661	783
30	815	2030	e1930	e1500	---	7500	3640	2630	1560	932	661	661
31	812	---	e1910	e2920	---	9970	---	2220	---	897	681	---
TOTAL	33018	36924	62800	51860	111450	201510	243610	69990	68740	34923	26387	19893
MEAN	1065	1231	2026	1673	3980	6500	8120	2258	2291	1127	851	663
MAX	2990	2400	4500	2920	6750	14600	21500	4720	5220	1600	1180	1060
MIN	733	763	1280	1400	2660	2450	3640	1250	1370	849	657	520

e Estimated.

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01567000 JUNIATA RIVER AT NEWPORT, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2637	3612	5024	4799	6324	8742	8350	5428	3345	2185	1486	1853
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	2258	1084	864	774	586
(WY)	1992	1979	1999	1981	1980	1990	1995	2001	1991	1988	1995	1986

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1973 - 2001
ANNUAL TOTAL	1141852	961105	
ANNUAL MEAN	3120	2633	4470
HIGHEST ANNUAL MEAN			7166
LOWEST ANNUAL MEAN			2271
HIGHEST DAILY MEAN	22900	Apr 24	21500
LOWEST DAILY MEAN	652	Sep 11	520
ANNUAL SEVEN-DAY MINIMUM	702	Sep 6	542
MAXIMUM PEAK FLOW			25700
MAXIMUM PEAK STAGE			11.46
10 PERCENT EXCEEDS	6870		5940
50 PERCENT EXCEEDS	2000		1600
90 PERCENT EXCEEDS	819		757

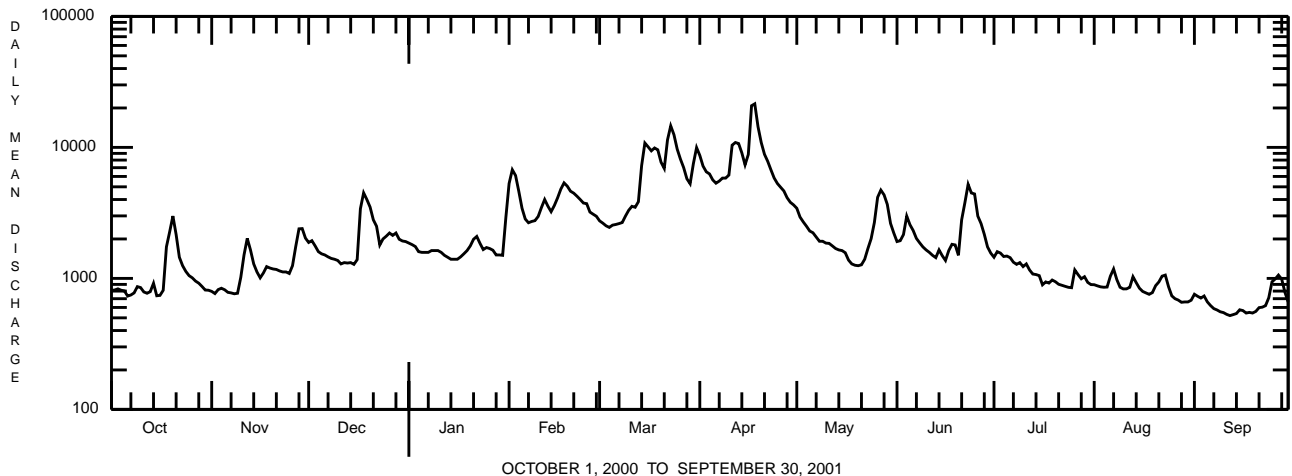
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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
LOWEST ANNUAL MEAN	2166
HIGHEST DAILY MEAN	172000
LOWEST DAILY MEAN	207
ANNUAL SEVEN-DAY MINIMUM	269
MAXIMUM PEAK FLOW	a190000
MAXIMUM PEAK STAGE	b34.24
INSTANTANEOUS LOW FLOW	195
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.



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001