

**JUNIATA RIVER BASIN**

**01567000 JUNIATA RIVER AT NEWPORT, PA  
(Pennsylvania Water-Quality Network Station)**

**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 mi<sup>2</sup>.

**WATER-DISCHARGE RECORDS**

**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 National Geodetic Vertical Datum of 1929. 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 ft<sup>3</sup>/s, from rating curve extended above 100,000 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	650	620	1290	828	e1620	e978	4160	6360	4130	1450	772	e643
2	639	629	1470	e962	e1750	e952	4080	7950	4150	1330	712	e625
3	629	647	1590	e974	e1690	e1180	3700	9070	3750	1240	681	e593
4	618	657	1310	e993	e1590	1430	3190	7410	3220	1190	663	e593
5	606	622	1180	e1020	e1530	1760	2870	5730	2610	1110	648	e576
6	595	627	1110	e1030	e1530	1670	2590	5190	2710	1060	641	e565
7	586	639	1080	e1040	e1430	1440	2400	4640	6310	997	663	e556
8	572	e587	1060	e1060	e1380	1400	2240	4080	9880	966	671	e549
9	561	572	1110	e1100	e1350	1360	2120	4240	6480	977	643	e544
10	546	565	1170	e1200	e1330	1350	2160	8600	4640	1050	643	e540
11	553	564	1270	1330	e1330	1260	2170	11900	3390	1060	e625	e522
12	570	558	1270	1570	e1650	1220	2030	9060	3070	1020	e634	e508
13	590	565	1170	1910	e2440	1200	1790	6680	2810	1030	e652	e508
14	603	562	1150	1740	e2030	1160	1820	14300	2750	890	e634	e674
15	755	562	1190	1580	e1910	1150	3140	14800	3600	907	e639	e544
16	868	568	1220	1460	e1690	1130	4520	11300	6560	904	e643	e503
17	986	589	1280	1390	e1620	1120	4290	8540	5230	886	e634	e499
18	1060	854	1390	1340	e1600	1240	3970	12800	4070	896	e625	e523
19	802	856	1590	1220	e1500	1640	3910	23700	3270	889	e607	e535
20	718	858	2080	1210	e1400	2930	4620	18200	2830	1300	e598	e531
21	693	857	1760	1190	e1380	6550	4290	13800	2570	1490	e580	e551
22	658	848	1560	1200	e1370	8930	4000	10100	2160	1120	e597	e721
23	634	842	1430	1190	e1330	5580	4350	8110	1910	1030	e670	e944
24	627	848	1380	1250	e1280	4250	4530	6660	1840	1050	e742	e1150
25	624	952	1330	1500	e1160	3520	4590	5620	2100	1050	e815	e1070
26	607	1340	1290	1790	e1040	3170	4250	5100	1740	956	e887	e981
27	597	1350	1250	2000	e1000	7500	3590	4930	1640	980	e751	e1310
28	612	1560	1190	1700	e1000	13200	3520	4240	1670	936	e751	e1330
29	604	1240	1140	1570	---	7450	5100	3660	1610	988	e724	e1630
30	605	1140	1120	1560	---	5560	7450	3590	1650	934	e688	e1870
31	605	---	939	1540	---	4580	---	4150	---	857	e670	---
TOTAL	20373	23678	40369	41447	41930	97860	107440	264510	104350	32543	20903	22688
MEAN	657	789	1302	1337	1498	3157	3581	8533	3478	1050	674	756
MAX	1060	1560	2080	2000	2440	13200	7450	23700	9880	1490	887	1870
MIN	546	558	939	828	1000	952	1790	3590	1610	857	580	499

e Estimated.

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2571	3518	4900	4684	6165	8556	8191	5532	3350	2148	1459	1816
MAX	11610	10850	13770	15810	15070	23500	25780	13940	8510	12080	3637	13220
(WY)	1977	1998	1973	1996	1984	1994	1993	1978	1982	1989	1979	1996
MIN	657	789	1045	495	1498	2576	2898	2258	1084	864	674	586
(WY)	2002	2002	1999	1981	2002	1990	1995	2001	1991	1988	2002	1986

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1973 - 2002	
ANNUAL TOTAL	912783		818091			
ANNUAL MEAN	2501		2241		4396	
HIGHEST ANNUAL MEAN					7166	
LOWEST ANNUAL MEAN					2241	
HIGHEST DAILY MEAN	21500		Apr 18		23700	
LOWEST DAILY MEAN	520		Sep 12		e499	
ANNUAL SEVEN-DAY MINIMUM	542		Sep 8		a527	
MAXIMUM PEAK FLOW					25300	
MAXIMUM PEAK STAGE					11.37	
10 PERCENT EXCEEDS	5940		5100		9850	
50 PERCENT EXCEEDS	1440		1240		2590	
90 PERCENT EXCEEDS	604		594		830	

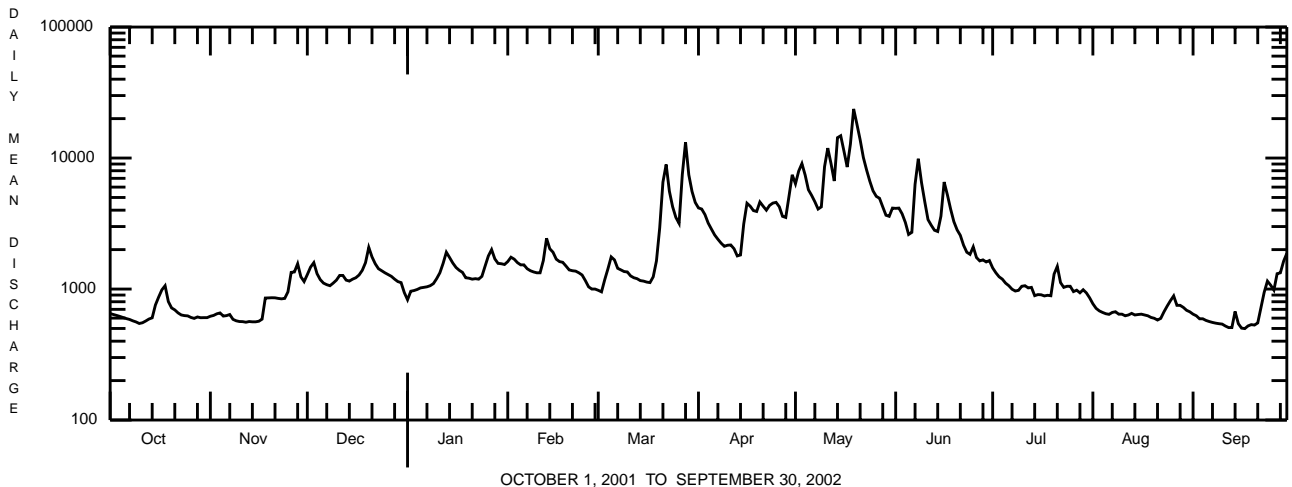
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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	8108	10880	11310	13300	16160	33600	17160	14870	25050	7865	4605	6890
(WY)	1928	1951	1902	1937	1915	1936	1940	1908	1972	1972	1905	1911
MIN	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
MAXIMUM PEAK FLOW	b190000	Mar 19 1936
MAXIMUM PEAK STAGE	c34.24	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 Computed using estimated daily discharges.
- b From rating curve extended above 100,000 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow.
- c From floodmark in gage.
- e Estimated.



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 306-334.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
APR 2002													
08...	1150	9813	2240	40	11.7	8.0	236	9.2	96	26.4	7.3	62	22.4
JUN													
11...	1200	9813	3370	40	9.0	8.1	219	23.1	90	24.9	6.8	64	19.8
AUG													
22...	1520	9813	E730	40	10.8	9.2	320	27.8	130	31.9	13.0	92	30.9

Date	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)
APR 2002													
08...	142	10	<.020	1.19	<.040	1.5	.04	.070	2.2	<10	270	<1.0	30
JUN													
11...	146	28	<.020	1.33	<.040	1.9	.03	.060	3.1	<10	560	<1.0	30
AUG													
22...	210	<2	<.020	.30	<.040	.66	.03	.050	4.0	<10	100	<1.0	20

Date	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)
APR 2002		
08...	<50	<10
JUN		
11...	<50	<10
AUG		
22...	<50	<10