



2004 Water Year JUNIATA RIVER BASIN

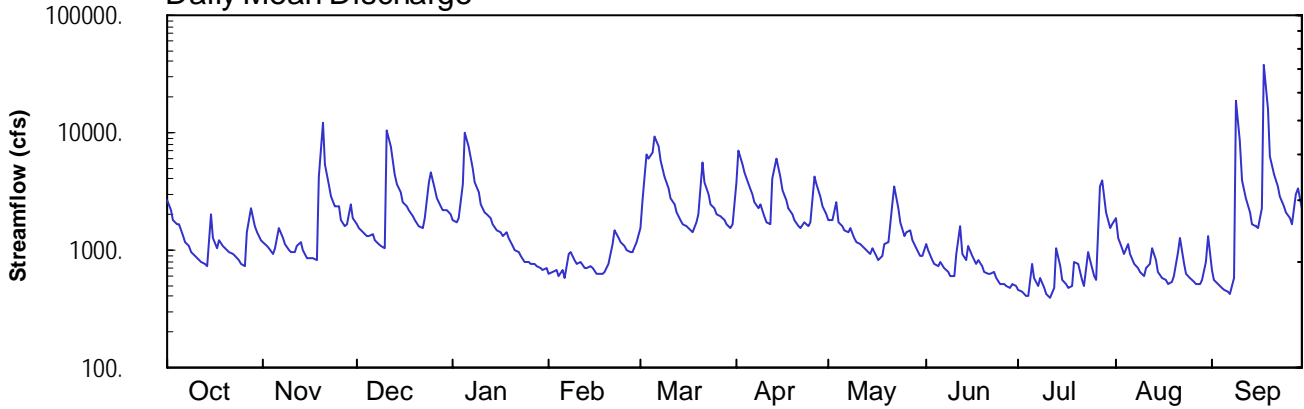
01559000 Juniata River at Huntingdon, PA

Latitude: 40° 29 ' 05"
Huntingdon County

Longitude: 078° 01 ' 09"
Datum: 599.69 feet

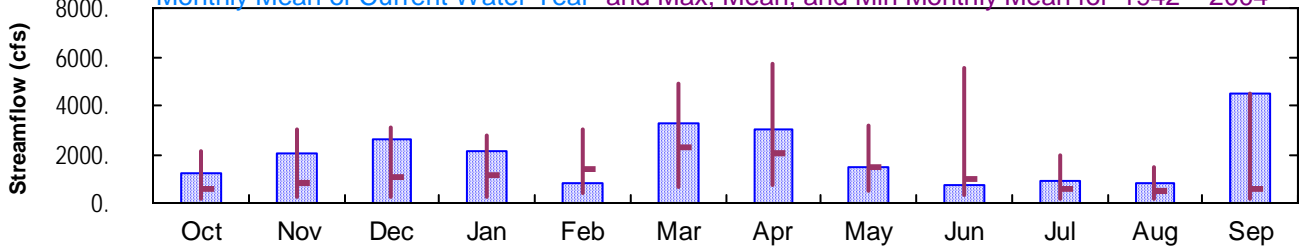
Hydrologic Unit Code: 02050302
Drainage Area: 816. mi²

Daily Mean Discharge

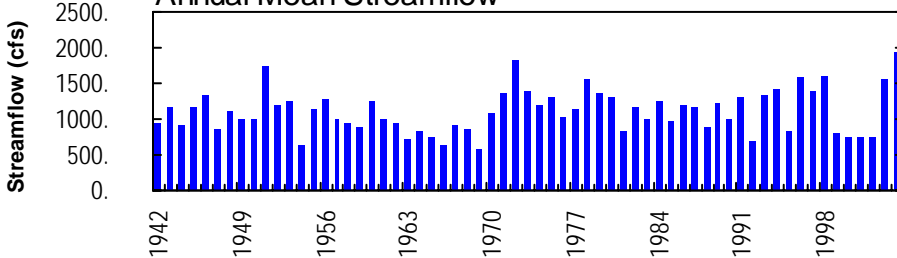


Monthly Statistics

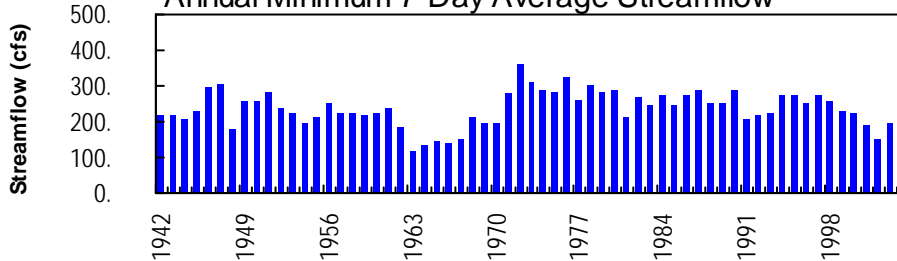
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1942 – 2004



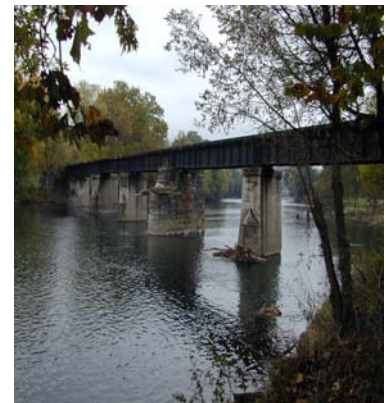
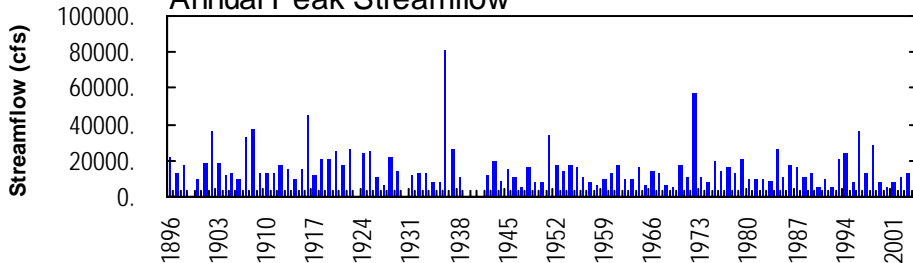
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



JUNIATA RIVER BASIN

01559000 JUNIATA RIVER AT HUNTINGDON, PA

LOCATION.--Lat 40°××29'05", long 78°01'09", Huntingdon County, Hydrologic Unit 02050302, on right bank 170 ft downstream from Smithfield Bridge on State Highway 26 at Huntingdon, and 0.8 mi upstream from Standing Stone Creek.

DRAINAGE AREA.--816 mi².

PERIOD OF RECORD.--October 1941 to current year. Gage-height records collected in this vicinity for the period May 1895 to December 1938 are contained in reports of U.S. Weather Bureau. Prior to October 1950, published as Frankstown Branch Juniata River at Huntingdon.

REVISED RECORDS.--WDR PA-73-1: 1936(M). WDR PA-80-2: 1972(M). WDR PA-84-2: 1936(M) 1972(M).

GAGE.--Water-stage recorder. Datum of gage is 599.69 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Flow regulated September 1941 to June 1972, and since December 15, 1985 by Warrior Ridge Hydroelectric Plant 4 mi upstream (reservoir capacity 400 acre-ft). Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 18, 1936, reached a stage of 21.87 ft, from floodmark, discharge, 81,000 ft³/s, from rating curve extended on basis of computation of peak discharge at dam and runoff comparison with downstream station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 5,500 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 20	0230	15,800	10.28	Apr. 2	1415	7,680	6.85
Dec. 11	1430	15,800	10.29	Apr. 14	0545	7,040	6.52
Dec. 24	2215	6,150	6.03	May 21	2215	6,280	6.10
Jan. 5	1200	11,600	8.77	July 28	0200	5,980	5.93
Mar. 3	0945	7,660	6.84	Sept. 9	1245	26,100	13.45
Mar. 6	1615	10,500	8.23	Sept. 18	1115	*45,700	*17.89
Mar. 21	0845	6,580	6.27				

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2680	1160	1670	1760	e625	1530	3840	1820	1120	458	1890	682
2	2200	1090	1520	1740	e650	2790	7180	1770	996	438	1270	560
3	1810	1050	1410	1890	e680	6470	5450	2510	824	410	1040	512
4	1660	939	1320	3590	613	6000	4650	1750	765	407	908	471
5	1630	1030	1310	9970	688	6640	3660	1570	744	756	1130	459
6	1300	1550	1350	7630	572	9360	2950	1470	792	584	911	444
7	1180	1260	1220	4910	928	7540	2550	1410	705	491	764	421
8	1090	1100	1130	3740	966	5820	2300	1560	649	578	692	569
9	975	1020	1070	3090	826	4260	2440	1270	609	468	652	19000
10	892	977	1060	2480	763	3330	1930	e1150	592	416	591	8460
11	834	969	10600	e2100	794	2760	1720	1110	912	398	714	3900
12	790	1080	7600	e2000	717	2450	1670	1020	1590	468	752	2720
13	755	1160	4470	e1850	717	2070	4080	997	909	1060	1020	e2100
14	744	1020	3590	e1650	725	1800	6110	916	811	724	809	1660
15	2040	864	3060	e1500	697	1690	4170	1060	1080	564	649	1590
16	1270	867	2550	e1400	635	1570	3180	883	898	513	585	1560
17	1050	865	2320	e1300	623	1550	2630	809	770	484	565	2260
18	1220	832	2160	e1400	633	1440	2260	876	808	487	523	37700
19	1090	4220	1940	e1250	642	1740	1990	1120	738	778	527	16100
20	996	12000	1770	e1100	747	2060	1780	1170	662	771	611	6330
21	950	5280	1610	e1000	1130	5590	1620	2460	618	566	969	4430
22	915	3620	1520	e950	1500	3810	1520	3540	629	505	1270	3470
23	888	2830	1870	e900	1260	2940	1710	2230	652	972	751	2830
24	824	2360	3780	e800	1180	2490	1570	1700	571	807	633	2350
25	771	2320	4610	e800	1090	2230	1710	e1300	521	613	578	2070
26	740	1830	3380	e750	1020	2040	4260	e1410	512	563	537	1840
27	1420	1610	2780	e750	952	1930	3630	1500	490	3480	509	1660
28	2300	1670	2400	e725	965	1830	2860	1210	474	3970	511	3000
29	1580	2430	2150	e700	1170	1660	2340	1030	506	2110	552	3390
30	1400	1840	2220	e675	---	1550	2030	898	488	1550	778	2240
31	1220	---	2030	e700	---	1660	---	874	---	1690	1300	---
TOTAL	39214	60843	81470	65100	24508	100600	89790	44393	22435	28079	24991	134778
MEAN	1265	2028	2628	2100	845	3245	2993	1432	748	906	806	4493
MAX	2680	12000	10600	9970	1500	9360	7180	3540	1590	3970	1890	37700
MIN	740	832	1060	675	572	1440	1520	809	474	398	509	421
CFM	1.55	2.49	3.22	2.57	1.04	3.98	3.67	1.75	0.92	1.11	0.99	5.51
IN.	1.79	2.77	3.71	2.97	1.12	4.59	4.09	2.02	1.02	1.28	1.14	6.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

MEAN	555	824	1084	1142	1417	2275	2037	1485	980	573	466	548
MAX	2114	3020	3100	2780	3059	4920	5739	3217	5562	1920	1447	4493
(WY)	1991	1998	1973	1996	1971	1994	1993	1978	1972	1989	1956	2004
MIN	146	233	232	265	379	693	747	528	312	201	163	143
(WY)	1964	1964	1966	1981	1963	1969	1946	1976	1965	1966	1966	1963

e Estimated.

JUNIATA RIVER BASIN

01559000 JUNIATA RIVER AT HUNTINGDON, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 - 2004	
ANNUAL TOTAL	673904		716201			
ANNUAL MEAN	1846		1957		1114	
HIGHEST ANNUAL MEAN					1957	
LOWEST ANNUAL MEAN					595	
HIGHEST DAILY MEAN	12000	Jan 2	37700	Sep 18	50400	Jun 23 1972
LOWEST DAILY MEAN	274	Feb 17	398	Jul 11	40	Sep 12 1963
ANNUAL SEVEN-DAY MINIMUM	a 377	Feb 12	454	Jun 28	117	Sep 10 1963
MAXIMUM PEAK FLOW			b 45700	Sep 18	b 57000	Jun 23 1972
MAXIMUM PEAK STAGE			17.89	Sep 18	20.03	Jun 23 1972
INSTANTANEOUS LOW FLOW			370	Feb 4, Aug 18	c 14	Feb 8 1948
ANNUAL RUNOFF (CFSM)	2.26		2.40		1.36	
ANNUAL RUNOFF (INCHES)	30.72		32.65		18.54	
10 PERCENT EXCEEDS	3810		3750		2390	
50 PERCENT EXCEEDS	1320		1240		665	
90 PERCENT EXCEEDS	504		570		265	

a Computed using estimated daily discharges.

b From rating curve extended above 26,000 ft³/s on basis of computation of peak discharge at dam, slope-conveyance study, and Pennsylvania Department of Environmental Protection step-backwater study.

c Minimum recorded; Also Aug. 2, 1954.