



2005 Water Year
JUNIATA RIVER BASIN
01559000 Juniata River at Huntingdon, PA

Latitude: 40° 29 ' 05"

Longitude: 078° 01 ' 09"

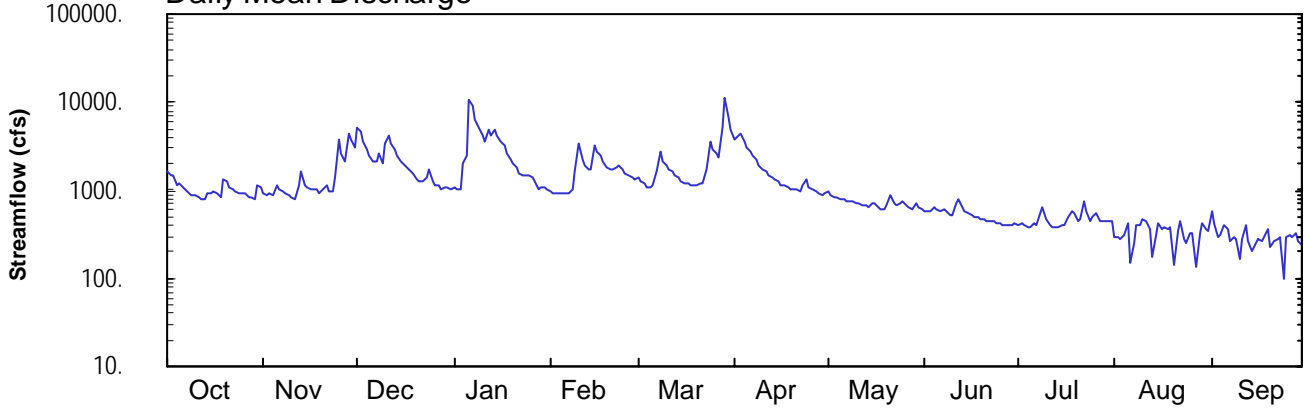
Hydrologic Unit Code: 02050302

Huntingdon County

Datum: 599.69 feet

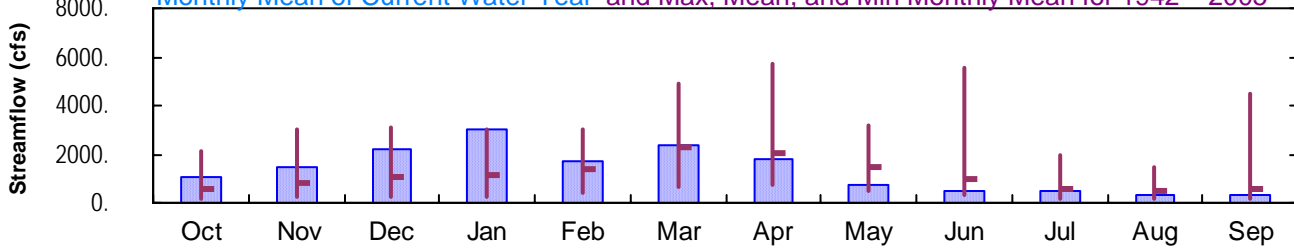
Drainage Area: 816. mi²

Daily Mean Discharge

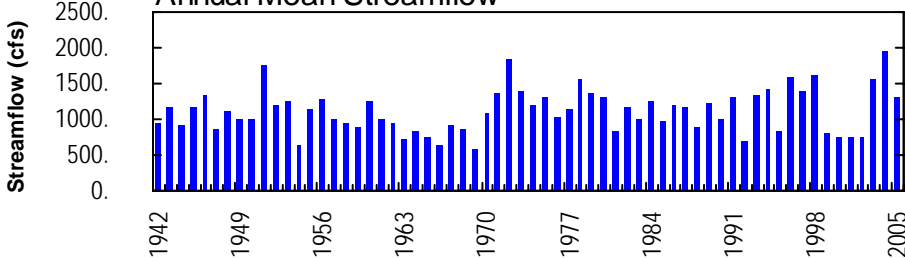


Monthly Statistics

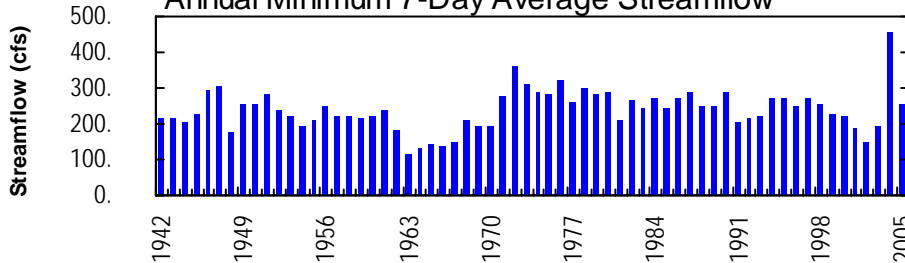
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1942 – 2005



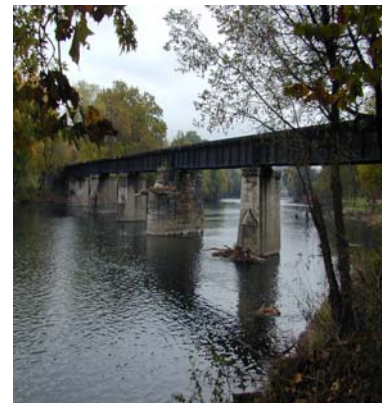
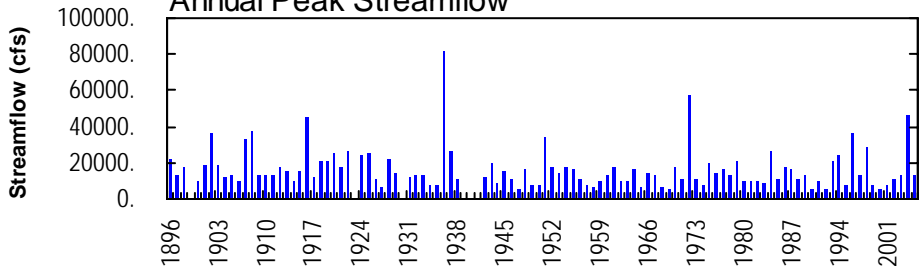
Annual Mean Streamflow



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 good except those for period Oct. 1 to Dec. 1, which are fair. 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. 28	1545	6,290	6.11	Jan. 8	1900	6,820	6.40
Dec. 1	1730	7,080	6.54	Jan. 14	1530	5,560	5.67
Jan. 6	1845	12,700	9.19	Mar. 29	0900	*12,800	*9.22

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1620	929	5180	1070	973	1370	3820	954	593	413	300	572
2	1450	870	4580	1040	928	1290	4140	897	564	415	293	434
3	1440	912	3540	1030	914	1170	4390	823	572	399	281	297
4	1150	887	2870	1980	902	1070	3590	815	630	381	307	304
5	1170	1140	2430	2490	902	1110	3050	792	603	378	424	394
6	1070	1040	2110	10500	906	1130	2690	775	580	419	148	361
7	1000	951	2180	9040	935	1630	2430	763	616	396	250	272
8	934	912	2550	6260	1030	2790	2200	753	568	562	407	290
9	898	862	2010	5190	1680	2160	1940	738	524	641	412	275
10	865	826	3470	4080	3390	1890	1760	720	535	467	463	167
11	831	812	4270	3570	2230	1740	1630	706	728	405	448	284
12	797	1150	3360	4890	1880	1640	1500	685	785	383	367	394
13	778	1660	2870	4220	1700	1510	1410	669	630	374	175	265
14	917	1170	2530	4980	1680	1380	1310	652	581	385	316	207
15	907	1080	2170	4250	3210	1280	1260	715	550	413	432	249
16	993	1040	1940	3620	2740	1210	1170	699	512	411	364	286
17	923	1020	1830	3160	2480	1170	1110	648	500	502	385	261
18	818	1000	1630	2580	2130	1150	1080	604	495	575	357	295
19	1340	937	1520	2190	1840	1130	1050	601	478	549	376	359
20	1290	1010	1340	2070	1710	1160	1000	674	462	454	141	231
21	1060	1160	1240	1850	1740	1210	1010	875	453	462	353	270
22	1000	989	1260	1570	1850	1190	967	699	449	747	445	275
23	956	968	1390	e1500	1910	1770	1170	666	440	566	281	294
24	923	1420	1710	e1460	1710	3570	1310	712	427	453	247	99
25	947	3860	1270	1450	1590	2950	1100	756	421	492	321	290
26	901	2650	1150	1380	1480	2630	1010	688	408	539	335	313
27	855	2180	1130	1260	1380	2380	954	632	404	447	138	300
28	821	4480	1040	1050	1360	5220	921	619	399	456	324	321
29	782	3780	1110	1080	---	11200	899	731	411	449	432	260
30	1130	2990	1090	1090	---	6810	923	634	428	445	353	238
31	1080	---	1050	1040	---	4860	---	619	---	437	349	---
TOTAL	31646	44685	67820	92940	47180	72770	52794	22314	15746	14415	10224	8857
MEAN	1021	1490	2188	2998	1685	2347	1760	720	525	465	330	295
MAX	1620	4480	5180	10500	3390	11200	4390	954	785	747	463	572
MIN	778	812	1040	1030	902	1070	899	601	399	374	138	99
CFSM	1.25	1.83	2.68	3.67	2.06	2.88	2.16	0.88	0.64	0.57	0.40	0.36
IN.	1.44	2.04	3.09	4.24	2.15	3.32	2.41	1.02	0.72	0.66	0.47	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2005, BY WATER YEAR (WY)

	562	835	1101	1171	1421	2276	2033	1473	973	572	464	544
MEAN	562	835	1101	1171	1421	2276	2033	1473	973	572	464	544
MAX	2114	3020	3100	2998	3059	4920	5739	3217	5562	1920	1447	4493
(WY)	1991	1998	1973	2005	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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1942 - 2005	
ANNUAL TOTAL	678825		481391			
ANNUAL MEAN	1855		1319		1117	
HIGHEST ANNUAL MEAN					1957	
LOWEST ANNUAL MEAN					595	
HIGHEST DAILY MEAN	37700	Sep 18	11200	Mar 29	50400	Jun 23 1972
LOWEST DAILY MEAN	398	Jul 11	99	Sep 24	40	Sep 12 1963
ANNUAL SEVEN-DAY MINIMUM	454	Jun 28	253	Sep 20	117	Sep 10 1963
MAXIMUM PEAK FLOW			12800	Mar 29	^a 57000	Jun 23 1972
MAXIMUM PEAK STAGE			9.22	Mar 29	20.03	Jun 23 1972
INSTANTANEOUS LOW FLOW			87	Sep 25	^b 14	Feb 8 1948
ANNUAL RUNOFF (CFSM)	2.27		1.62		1.37	
ANNUAL RUNOFF (INCHES)	30.95		21.95		18.59	
10 PERCENT EXCEEDS	3640		2870		2390	
50 PERCENT EXCEEDS	1130		934		669	
90 PERCENT EXCEEDS	570		321		266	

a 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.

b Minimum recorded; Also Aug. 2, 1954.

