



2004 Water Year
JUNIATA RIVER BASIN

01563200 Rays Br Juniata R bl Rays Dam nr Huntingdon, PA

Latitude: 40° 25 ' 44"
Huntingdon County

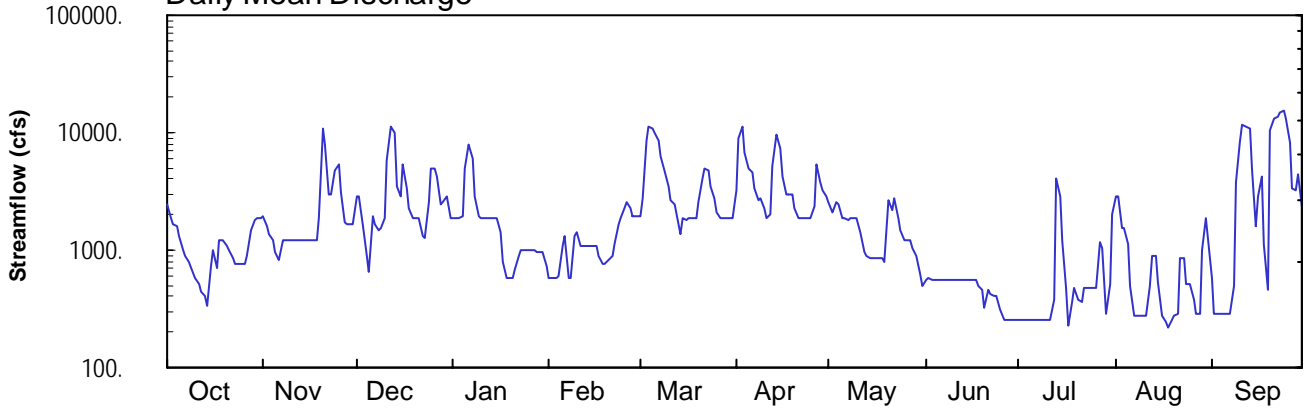
Longitude: 077° 59 ' 29"

Datum: 597.36 feet

Hydrologic Unit Code: 02050303

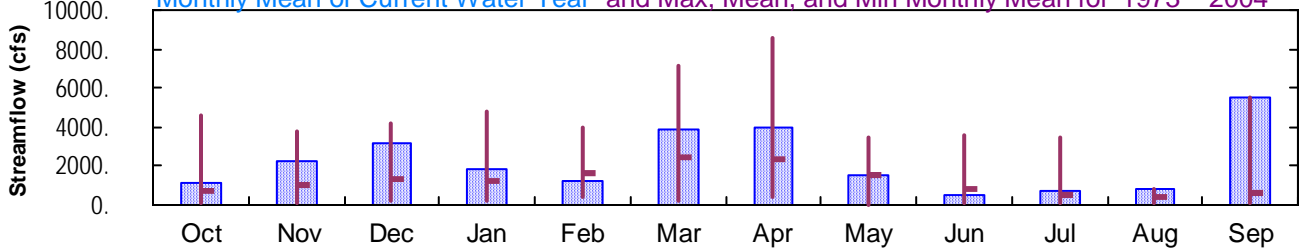
Drainage Area: 960. mi²

Daily Mean Discharge

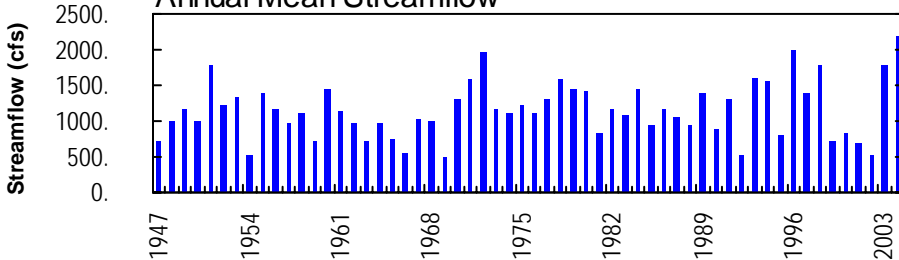


Monthly Statistics

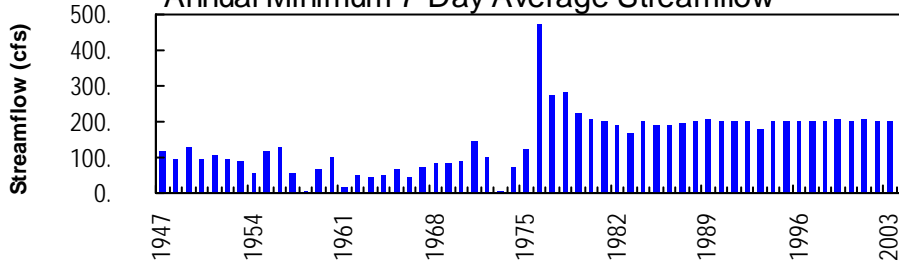
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1973 – 2004



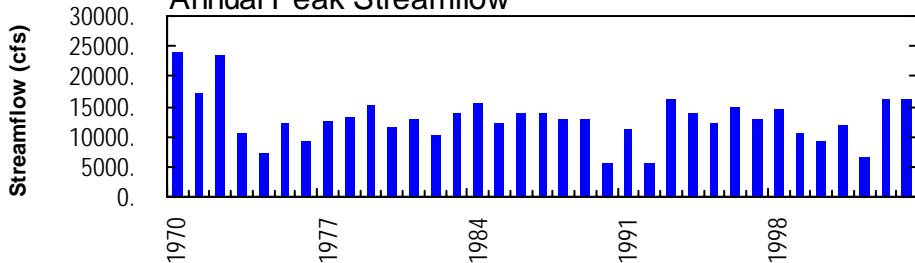
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



JUNIATA RIVER BASIN

01563200 RAYSTOWN BRANCH JUNIATA RIVER BELOW RAYSTOWN DAM NEAR HUNTINGDON, PA

LOCATION.--Lat 40°25'44", long 77°59'29", Huntingdon County, Hydrologic Unit 02050303, on left bank 1.0 mi downstream from Raystown Dam on Township Route 430, 4.0 mi south of Huntingdon, and 4.7 mi upstream from mouth.

DRAINAGE AREA.--960 mi².

PERIOD OF RECORD.--January 1946 to current year. Prior to October 1946 monthly discharge only, published in WSP 1302. Prior to Oct. 1, 1969, published as Raystown Branch Juniata River near Huntingdon.

GAGE.--Water-stage recorder. Datum of gage is 597.36 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers benchmark). Prior to Oct. 1, 1969, water-stage recorder at site 4.3 mi upstream at datum 22.72 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated since October 1972 by Raystown Dam (station 01563100). Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 18, 1936, reached a stage of 31.0 ft, discharge, 87,000 ft³/s, at previous site and datum, by computation of peak discharge at dam.

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	2490	1900	2880	1890	587	1910	3190	2550	563	253	2890	572
2	1870	1570	2820	1890	588	2770	8790	2060	574	253	2850	286
3	1630	1350	1570	1890	589	8600	11400	2510	557	253	1550	286
4	1630	1200	901	1910	600	11200	6830	2500	557	253	1550	286
5	1310	958	661	5000	1090	10800	4970	1890	558	253	1120	287
6	982	809	1910	8000	1290	9940	4520	1880	557	253	492	287
7	892	1230	1670	5960	573	8460	3330	1790	557	253	281	287
8	777	1240	1500	2840	573	6350	2610	1870	557	253	280	498
9	707	1230	1550	1910	1330	4850	2730	1870	557	253	280	3810
10	584	1230	1890	1900	1400	3550	2290	1870	559	252	280	8170
11	510	1230	5800	1890	1100	2630	1890	1410	561	252	280	11500
12	449	1240	11400	1880	1100	2430	2050	971	560	380	491	11200
13	409	1220	10200	1880	1100	2010	5170	875	557	4080	897	10700
14	333	1220	3480	1880	1100	1360	9490	871	557	2910	897	e5030
15	729	1220	2890	1880	1100	1880	7310	871	557	1240	527	1600
16	988	1220	5440	1420	1100	1780	4240	857	557	469	281	2870
17	701	1230	3340	788	890	1880	2980	869	557	227	241	4310
18	1230	1210	2230	573	755	1880	2970	867	492	370	215	e1140
19	1240	1880	1890	573	757	1890	2950	806	461	474	255	464
20	1090	10600	1880	573	838	2520	2250	2690	324	381	280	10400
21	992	7800	1880	673	890	4070	1880	2200	464	369	291	13100
22	851	2980	1340	894	1110	4960	1870	2730	427	471	848	13500
23	760	2930	1290	999	1660	4780	1870	1890	401	480	851	14600
24	756	4750	2590	999	1900	3450	1870	1480	401	475	521	15500
25	755	5280	4930	999	2250	2740	1880	1210	306	475	505	13400
26	758	3070	4940	999	2560	2070	2320	1220	253	476	380	8320
27	880	1700	4200	982	2290	1890	5290	1220	253	1170	284	3370
28	1450	1680	2490	971	1900	1890	3780	1050	253	1040	284	3180
29	1820	1680	2560	971	1900	1890	3170	892	253	284	993	4420
30	1890	1680	2840	971	---	1880	2900	624	253	508	1900	2400
31	1900	---	1900	734	---	1880	---	497	---	2010	1220	---
TOTAL	33363	68537	96862	56719	34920	120190	118790	46890	14043	21070	24014	165773
MEAN	1076	2285	3125	1830	1204	3877	3960	1513	468	680	775	5526
MAX	2490	10600	11400	8000	2560	11200	11400	2730	574	4080	2890	15500
MIN	333	809	661	573	573	1360	1870	497	253	227	215	286

e Estimated.

JUNIATA RIVER BASIN

01563200 RAYSTOWN BRANCH JUNIATA RIVER BELOW RAYSTOWN DAM NEAR HUNTINGDON, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2004, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	731	1046	1304	1270	1671	2461	2316	1490	863	512	360	627
MAX	4616	3778	4204	4768	3999	7104	8605	3438	3548	3484	802	5526
(WY)	1977	1974	1973	1996	1984	1994	1993	1978	2003	1989	1979	2004
MIN	150	125	215	208	436	212	370	18.6	59.1	133	118	134
(WY)	1975	1975	1981	1981	2002	2002	1974	1973	1973	1973	1973	1973

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1973 - 2004

ANNUAL TOTAL	764995	801171	
ANNUAL MEAN	2096	2189	1218
HIGHEST ANNUAL MEAN			2189
LOWEST ANNUAL MEAN			525
HIGHEST DAILY MEAN	14500	Jun 5	15500 Sep 24
LOWEST DAILY MEAN	187	Aug 26	215 Aug 18
ANNUAL SEVEN-DAY MINIMUM	201	Jul 23	253 Jul 5
MAXIMUM PEAK FLOW			16000 Sep 24
MAXIMUM PEAK STAGE			15.06 Sep 24
10 PERCENT EXCEEDS	5340	4960	2860
50 PERCENT EXCEEDS	1550	1290	507
90 PERCENT EXCEEDS	406	290	201

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	343	651	985	1195	1649	2695	2132	1500	875	442	303	229
MAX	1587	2796	2877	2915	4150	4481	4632	3346	5740	1722	925	648
(WY)	1955	1971	1951	1949	1971	1963	1970	1960	1972	1972	1956	1950
MIN	64.7	65.3	131	220	317	754	683	482	180	80.1	66.0	67.6
(WY)	1964	1958	1966	1954	1954	1969	1968	1969	1965	1966	1966	1963

SUMMARY STATISTICS WATER YEARS 1947 - 1972

ANNUAL MEAN	1080
HIGHEST ANNUAL MEAN	1960
LOWEST ANNUAL MEAN	497
HIGHEST DAILY MEAN	22200
LOWEST DAILY MEAN	5.0
ANNUAL SEVEN-DAY MINIMUM	7.7
MAXIMUM PEAK FLOW	a24500
MAXIMUM PEAK STAGE	b18.54
INSTANTANEOUS LOW FLOW	4.3
ANNUAL RUNOFF (CFSM)	1.13
ANNUAL RUNOFF (INCHES)	15.29
10 PERCENT EXCEEDS	2580
50 PERCENT EXCEEDS	475
90 PERCENT EXCEEDS	114

- a From rating curve extended above 16,000 ft³/s on basis of computation of peak discharge at dam, gage height, 16.74 ft, site and datum then in use.
- b Present site and datum.