

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 sea level (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.--No estimated daily discharges. Records good. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	204	487	501	495	2930	979	1230	2040	413	205	206
2	202	211	486	503	494	2630	906	986	1760	343	358	207
3	202	205	486	501	495	1790	906	984	1280	288	491	207
4	202	205	489	502	495	1590	1070	983	960	252	530	207
5	202	204	488	475	495	1590	1510	914	892	252	532	207
6	202	204	488	491	496	1590	1580	870	1300	253	782	207
7	202	205	486	501	493	1340	1470	869	2100	252	1240	207
8	202	205	486	500	494	939	1400	693	2200	253	1080	207
9	202	205	485	500	494	790	1400	572	1430	253	794	207
10	204	205	486	501	495	787	1520	578	1160	252	532	207
11	202	205	485	501	496	789	1580	582	730	255	532	207
12	201	204	486	503	496	984	1290	660	657	237	418	207
13	198	205	485	503	496	1400	1100	750	793	249	266	212
14	203	205	491	501	497	1580	1090	775	957	215	210	208
15	202	394	492	501	498	1580	1090	563	1090	215	211	207
16	202	481	490	501	509	1580	1090	368	1230	217	213	207
17	202	479	488	500	492	1580	1090	285	1750	379	213	209
18	202	485	488	499	495	1580	1270	238	1600	513	213	207
19	202	476	490	498	506	1320	1590	535	983	529	213	208
20	203	475	490	499	1140	1050	1730	901	532	422	214	207
21	203	476	490	497	1540	1010	2190	1200	376	267	213	207
22	203	476	489	497	1570	1590	6180	1150	462	208	213	208
23	205	484	488	497	1570	2700	9110	2090	516	210	209	207
24	205	488	488	497	1570	3400	8220	4750	515	210	205	208
25	204	489	489	497	1580	3400	6300	4540	515	209	206	208
26	204	495	487	498	2110	3400	3790	2640	460	210	206	208
27	204	493	487	496	2420	3390	2360	1760	455	209	206	208
28	205	490	487	497	2370	2230	1880	1590	520	224	206	207
29	204	490	486	496	2840	1590	1590	3220	524	1020	206	207
30	205	488	486	497	---	1430	1580	3570	528	734	206	207
31	204	---	488	496	---	1100	---	2390	---	442	206	---
TOTAL	6285	10531	15117	15446	28141	54659	68861	43236	30315	9985	11529	6223
MEAN	203	351	488	498	970	1763	2295	1395	1010	322	372	207
MAX	205	495	492	503	2840	3400	9110	4750	2200	1020	1240	212
MIN	198	204	485	475	492	787	906	238	376	208	205	206

JUNIATA RIVER BASIN

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	773	1043	1297	1274	1783	2467	2312	1439	807	533	344	439
MAX	4616	3778	4204	4768	3999	7104	8605	3438	2241	3484	802	3007
(WY)	1977	1974	1973	1996	1984	1994	1993	1978	1989	1989	1979	1996
MIN	150	125	215	208	440	360	370	18.6	59.1	133	118	134
(WY)	1975	1975	1981	1981	1992	1974	1974	1973	1973	1973	1973	1973

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1973 - 2000
ANNUAL TOTAL	251226	300328	
ANNUAL MEAN	688	821	1206
HIGHEST ANNUAL MEAN			1989
LOWEST ANNUAL MEAN			525
HIGHEST DAILY MEAN	9830	Apr 11	9110
LOWEST DAILY MEAN	198	Aug 17	198
ANNUAL SEVEN-DAY MINIMUM	201	Oct 11	201
INSTANTANEOUS PEAK FLOW			9140
INSTANTANEOUS PEAK STAGE			11.45
10 PERCENT EXCEEDS	1620		1590
50 PERCENT EXCEEDS	481		494
90 PERCENT EXCEEDS	204		205

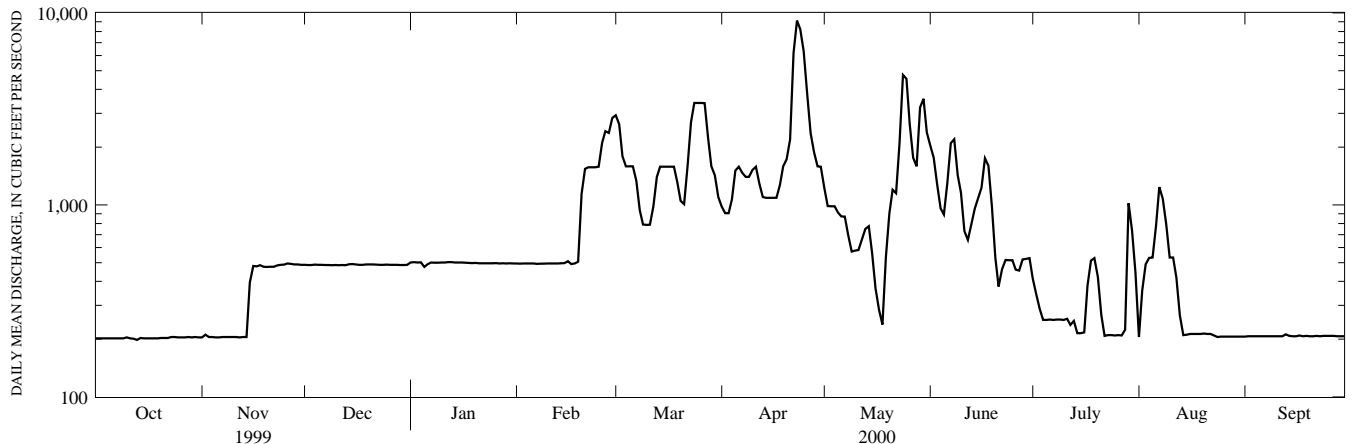
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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
INSTANTANEOUS PEAK FLOW	a24500
INSTANTANEOUS PEAK STAGE	b18.54
INSTANTANEOUS LOW FLOW	4.3
ANNUAL RUNOFF (CFMS)	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.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000