

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 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	736	496	506	498	501	1620	1150	224	209	225	200
2	211	623	495	505	498	501	1610	1030	209	208	219	201
3	212	552	495	506	499	509	1610	1030	207	208	210	208
4	211	366	494	506	501	517	1610	914	206	212	213	210
5	210	226	494	506	501	510	1900	760	213	215	210	207
6	209	225	496	506	501	508	2070	705	217	214	207	209
7	210	223	493	506	501	510	1930	706	217	221	207	205
8	211	223	494	505	501	502	1620	706	217	232	207	205
9	210	223	495	504	500	501	2350	954	215	230	206	207
10	209	223	494	499	501	501	8260	1040	216	230	206	208
11	208	223	493	496	501	501	9830	706	216	230	205	207
12	209	223	493	494	501	501	8160	545	215	225	206	207
13	316	223	493	495	501	502	6270	649	216	214	211	207
14	485	223	493	496	501	505	4560	868	214	211	208	208
15	804	390	491	495	501	502	3340	859	213	210	208	208
16	1010	493	491	496	501	812	2560	857	209	202	208	211
17	969	497	492	497	506	1460	2560	639	208	209	198	209
18	882	507	493	500	514	1630	2000	501	207	208	199	209
19	898	504	492	501	502	2030	1620	499	208	207	201	208
20	809	503	492	501	503	2670	1620	500	208	208	203	208
21	747	503	492	501	501	3470	1620	449	207	208	206	208
22	744	502	492	497	501	5290	2580	417	208	207	207	208
23	744	503	493	504	501	6720	3530	407	207	209	237	208
24	745	530	494	520	500	5940	3530	481	207	220	205	207
25	744	485	494	510	502	3210	3540	575	207	224	207	207
26	741	479	493	508	501	1630	3530	425	208	224	208	207
27	741	497	493	510	499	1620	2890	343	207	224	212	206
28	740	497	493	504	502	1620	2280	283	207	221	211	207
29	735	496	493	501	---	1620	1620	248	207	225	211	206
30	735	496	478	501	---	1620	1450	249	209	224	210	209
31	735	---	497	501	---	1620	---	247	---	221	207	---
TOTAL	16845	12394	15281	15577	14039	50533	93670	19742	6329	6710	6478	6215
MEAN	543	413	493	502	501	1630	3122	637	211	216	209	207
MAX	1010	736	497	520	514	6720	9830	1150	224	232	237	211
MIN	208	223	478	494	498	501	1450	247	206	202	198	200

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1999, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	794	1069	1327	1302	1814	2493	2313	1441	799	541	343	447
MAX (WY)	4616	3778	4204	4768	3999	7104	8605	3438	2241	3484	802	3007
MIN (WY)	1977	1974	1973	1996	1984	1994	1993	1978	1989	1989	1979	1996
MIN (WY)	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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1973 - 1999
ANNUAL TOTAL	546661	263813	
ANNUAL MEAN	1498	723	1220
HIGHEST ANNUAL MEAN			1989
LOWEST ANNUAL MEAN			525
HIGHEST DAILY MEAN	11500	Apr 21	15400
LOWEST DAILY MEAN	204	Aug 11-13,15	5.0
ANNUAL SEVEN-DAY MINIMUM	206	Sep 24	8.3
INSTANTANEOUS PEAK FLOW			16200
INSTANTANEOUS PEAK STAGE			15.12
10 PERCENT EXCEEDS	4300	1620	2890
50 PERCENT EXCEEDS	552	494	513
90 PERCENT EXCEEDS	209	207	199

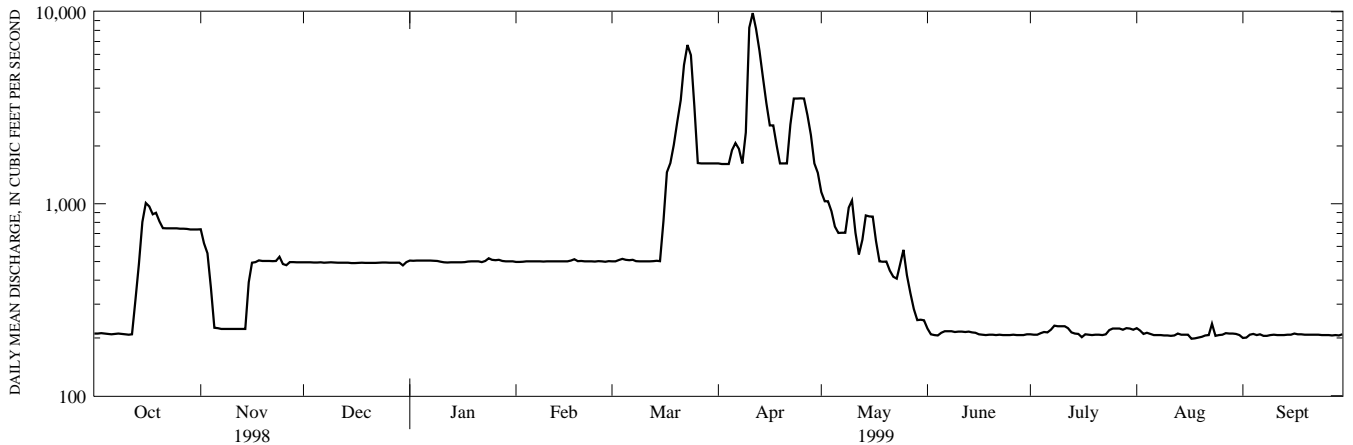
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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 (WY)	1587	2796	2877	2915	4150	4481	4632	3346	5740	1722	925	648
MIN (WY)	1955	1971	1951	1949	1971	1963	1970	1960	1972	1972	1956	1950
MIN (WY)	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 (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.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999