

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.--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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	217	210	493	493	486	204	226	3080	973	204	207	206
2	218	203	494	491	486	206	223	2980	1100	203	207	206
3	217	209	492	484	484	207	223	2040	756	203	207	206
4	224	209	490	493	484	206	224	1610	512	203	206	206
5	232	208	494	490	484	204	224	1600	519	202	208	206
6	228	209	488	493	483	202	223	1330	695	202	207	206
7	213	208	489	491	484	206	222	1110	1960	202	207	206
8	210	207	490	490	484	207	221	1270	2010	202	207	206
9	210	207	490	514	484	206	221	2890	970	203	207	205
10	210	208	488	503	485	209	221	5550	544	202	207	206
11	210	207	488	491	485	208	219	4310	540	201	207	207
12	210	207	487	487	484	207	217	1650	537	201	206	206
13	210	207	488	488	484	208	217	3070	537	202	207	207
14	211	207	496	486	484	209	219	3990	536	197	205	206
15	210	374	502	487	483	210	222	3220	785	203	207	205
16	210	502	503	488	485	210	216	2290	970	207	206	206
17	210	498	500	487	484	210	226	2080	715	208	206	205
18	210	497	501	486	484	210	226	3020	537	207	207	205
19	210	502	500	485	484	205	384	5490	537	202	206	205
20	210	498	500	484	484	218	488	5090	414	218	207	205
21	210	494	488	485	485	218	488	3210	332	218	207	205
22	209	494	499	484	484	212	493	2430	331	215	207	202
23	209	493	489	484	424	211	904	1930	332	208	207	213
24	209	493	496	485	300	216	1360	1610	282	203	207	203
25	209	495	498	486	221	217	1090	1550	212	206	207	201
26	209	493	495	486	206	227	897	1600	204	206	207	202
27	209	493	496	485	205	231	895	954	205	206	207	204
28	209	493	493	485	204	224	1180	498	205	206	207	202
29	210	492	494	485	---	226	1600	669	206	206	207	202
30	210	492	480	485	---	225	1890	818	204	206	206	213
31	210	---	493	485	---	224	---	818	---	206	207	---
TOTAL	6583	10709	15294	15146	12214	6583	15659	73757	18660	6358	6410	6163
MEAN	212	357	493	489	436	212	522	2379	622	205	207	205
MAX	232	502	503	514	486	231	1890	5550	2010	218	208	213
MIN	209	203	480	484	204	202	216	498	204	197	205	201

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	735	998	1243	1222	1710	2370	2264	1437	786	512	336	424
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	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 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1973 - 2002
ANNUAL TOTAL	254307	193536	
ANNUAL MEAN	697	530	1166
HIGHEST ANNUAL MEAN			1989
LOWEST ANNUAL MEAN			525
HIGHEST DAILY MEAN	10000	Apr 17	5550
LOWEST DAILY MEAN	198	May 17-19	197
ANNUAL SEVEN-DAY MINIMUM	207	Nov 8	201
MAXIMUM PEAK FLOW			6490
MAXIMUM PEAK STAGE			9.87
10 PERCENT EXCEEDS	1600		970
50 PERCENT EXCEEDS	488		224
90 PERCENT EXCEEDS	210		205

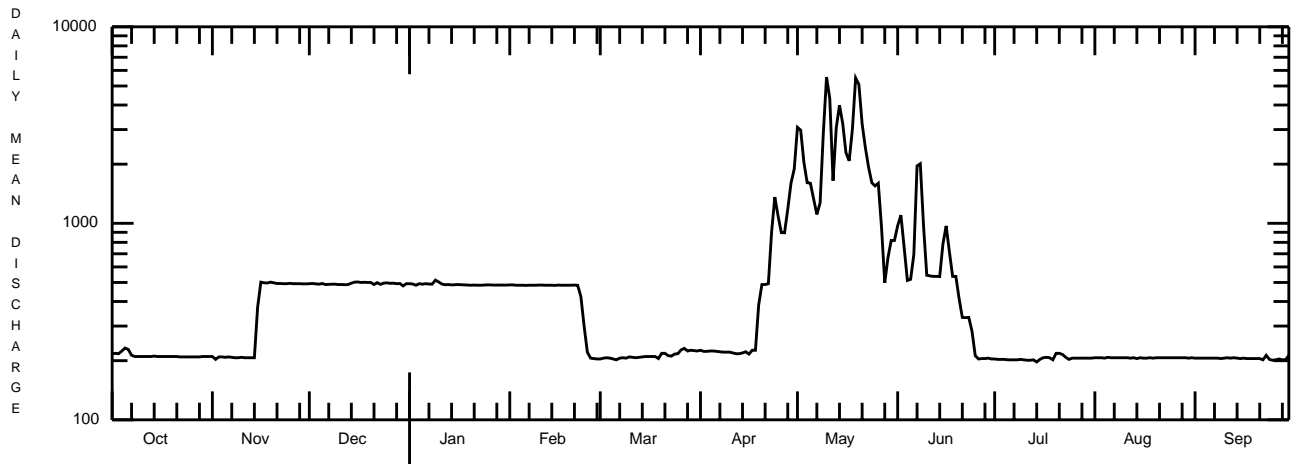
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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 (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
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.



OCTOBER 1, 2001 TO SEPTEMBER 30, 2002