

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 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	1530	637	2410	492	1570	1590	1340	2570	766	203	397
2	207	1220	633	10200	494	1570	1730	1050	2000	649	202	398
3	207	1030	547	12800	491	1570	1960	646	2280	487	945	724
4	212	1030	488	9010	496	1570	1770	702	12300	446	1900	1660
5	207	726	481	4270	493	1580	2210	1150	14500	446	1190	2020
6	206	778	489	2610	494	1990	3480	1100	10600	446	882	1190
7	206	1290	488	2560	494	4260	4260	1150	5900	446	882	869
8	205	1030	490	2110	493	5940	3930	1890	8490	446	882	592
9	205	665	505	1620	494	5950	3460	2290	7680	448	883	401
10	203	664	502	1610	492	5960	4640	3070	4470	447	1310	401
11	208	885	505	1600	493	6450	4380	e5940	2540	508	1620	392
12	207	1180	495	1600	494	6780	4350	e6230	2440	549	1620	336
13	207	1530	1110	1590	790	6780	4290	5900	2130	549	973	297
14	206	1530	1580	1590	1080	6570	3260	3100	2620	550	509	298
15	207	1530	2050	1590	1080	6040	2560	2260	1960	466	510	423
16	211	1530	2530	1580	1080	5690	2260	3390	1620	455	430	1080
17	208	1530	2530	1070	1080	6590	1620	6690	1320	369	373	1620
18	207	2320	2520	563	1080	6560	1740	6830	1100	254	632	1630
19	207	2920	2520	490	1350	6490	1630	6470	1330	204	685	1470
20	208	2270	1970	494	1560	5930	2040	3240	1420	204	477	2170
21	207	1600	1600	491	1570	3230	1210	4220	1710	203	401	2630
22	205	1590	1590	549	1570	580	880	3050	3150	202	336	2630
23	200	1310	1590	588	1570	617	533	2490	3350	201	294	3610
24	201	940	1590	530	1570	2710	829	2590	2690	201	294	4710
25	201	814	1580	491	1570	3030	1020	2600	1610	201	239	3480
26	201	812	1580	495	1570	2240	1050	2590	1320	201	187	2070
27	198	808	1570	491	1570	2430	983	2330	1050	201	257	1670
28	200	809	1520	496	1570	1860	932	2580	767	201	419	7270
29	198	808	1560	476	---	1140	684	2580	764	201	438	5630
30	878	701	1560	492	---	1640	1280	2580	764	201	397	2650
31	1530	---	1520	492	---	1920	---	2570	---	201	397	---
TOTAL	8367	37380	40330	66958	27580	117237	66561	94618	106445	11349	20767	54718
MEAN	270	1246	1301	2160	985	3782	2219	3052	3548	366	670	1824
MAX	1530	2920	2530	12800	1570	6780	4640	6830	14500	766	1900	7270
MIN	198	664	481	476	491	580	533	646	764	201	187	297

e Estimated.

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	720	1006	1245	1252	1687	2415	2263	1490	875	507	346	469
MAX (WY)	4616	3778	4204	4768	3999	7104	8605	3438	3548	3484	802	3007
MIN (WY)	1977	1974	1973	1996	1984	1994	1993	1978	2003	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 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1973 - 2003

ANNUAL TOTAL	247027		652310		1186	
ANNUAL MEAN	677		1787		1989	
HIGHEST ANNUAL MEAN					1996	
LOWEST ANNUAL MEAN					1992	
HIGHEST DAILY MEAN	5550	May 10	14500	Jun 5	15400	Apr 7 1993
LOWEST DAILY MEAN	197	Jul 14	187	Aug 26	5.0	May 18 1973
ANNUAL SEVEN-DAY MINIMUM	200	Oct 23	200	Oct 23	8.3	May 18 1973
MAXIMUM PEAK FLOW			16000		16200	
MAXIMUM PEAK STAGE			15.05		15.12	
10 PERCENT EXCEEDS	1600		4280		2810	
50 PERCENT EXCEEDS	331		1150		501	
90 PERCENT EXCEEDS	204		207		201	

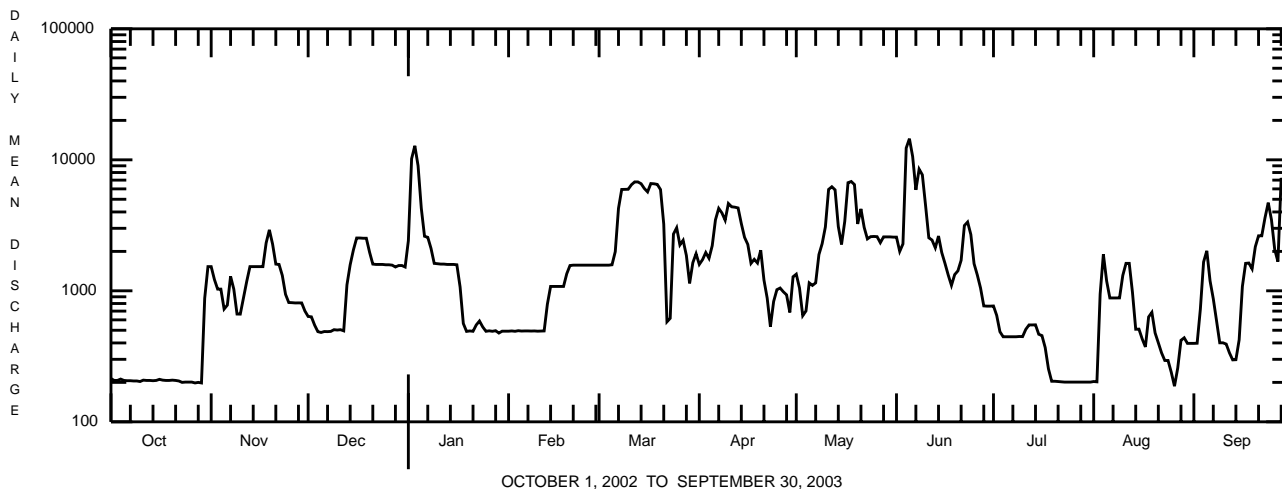
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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 (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, 2002 TO SEPTEMBER 30, 2003