

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	209	501	496	505	706	1600	493	303	313	220	215
2	208	208	500	498	505	645	1880	492	355	216	220	215
3	208	208	499	497	505	607	1800	499	424	218	221	215
4	207	208	497	497	505	607	1600	497	488	217	221	215
5	208	209	495	497	505	668	1600	496	490	219	220	215
6	207	208	501	495	506	768	1600	488	462	218	220	214
7	207	208	500	496	506	809	1600	491	462	217	220	214
8	207	208	498	496	508	811	1600	492	451	217	222	214
9	207	209	498	506	501	814	1680	492	458	217	223	214
10	207	211	498	504	504	814	4640	493	460	217	223	214
11	209	210	496	501	504	815	4840	494	377	217	223	215
12	207	208	498	501	501	814	4910	493	317	226	223	217
13	207	208	497	501	666	1300	3620	498	319	218	224	217
14	207	208	498	501	1070	2800	2750	488	321	214	224	217
15	207	376	497	501	1090	3510	2470	308	261	217	220	218
16	207	501	499	501	1370	3210	5590	211	227	217	215	219
17	207	501	504	501	1580	3070	10000	198	281	217	215	218
18	229	501	499	501	1590	3420	5690	198	345	214	216	217
19	209	501	500	501	1590	2370	3620	198	375	217	215	217
20	209	501	498	501	1590	2050	2740	241	273	219	217	218
21	210	500	498	501	1590	2050	2450	215	238	220	215	217
22	209	498	498	501	1590	3160	1990	213	237	220	214	217
23	208	497	497	501	1590	4240	1610	588	419	220	216	216
24	228	497	498	501	1140	2940	1600	824	537	219	214	219
25	210	497	497	501	818	2540	1600	825	629	219	215	218
26	232	498	496	501	744	2100	1270	826	614	219	216	218
27	208	498	498	501	707	1600	1000	513	363	220	215	217
28	208	499	497	501	707	1600	996	210	271	220	215	218
29	209	500	497	501	---	1590	993	332	217	220	215	217
30	209	501	497	502	---	1600	696	428	308	220	215	217
31	208	---	496	503	---	1600	---	429	---	220	214	---
TOTAL	6510	10786	15442	15506	25487	55628	80035	13663	11282	6862	6766	6492
MEAN	210	360	498	500	910	1794	2668	441	376	221	218	216
MAX	232	501	504	506	1590	4240	10000	826	629	313	224	219
MIN	207	208	495	495	501	607	696	198	217	214	214	214

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	753	1020	1269	1247	1753	2444	2324	1405	792	522	340	431
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 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1973 - 2001
ANNUAL TOTAL	301133	254459	
ANNUAL MEAN	823	697	1188
HIGHEST ANNUAL MEAN			1989
LOWEST ANNUAL MEAN			1992
HIGHEST DAILY MEAN	9110	Apr 23	10000
LOWEST DAILY MEAN	205	Aug 1, 24	198
ANNUAL SEVEN-DAY MINIMUM	206	Aug 24	207
MAXIMUM PEAK FLOW			11900
MAXIMUM PEAK STAGE			13.00
10 PERCENT EXCEEDS	1590		1600
50 PERCENT EXCEEDS	498		492
90 PERCENT EXCEEDS	207		209

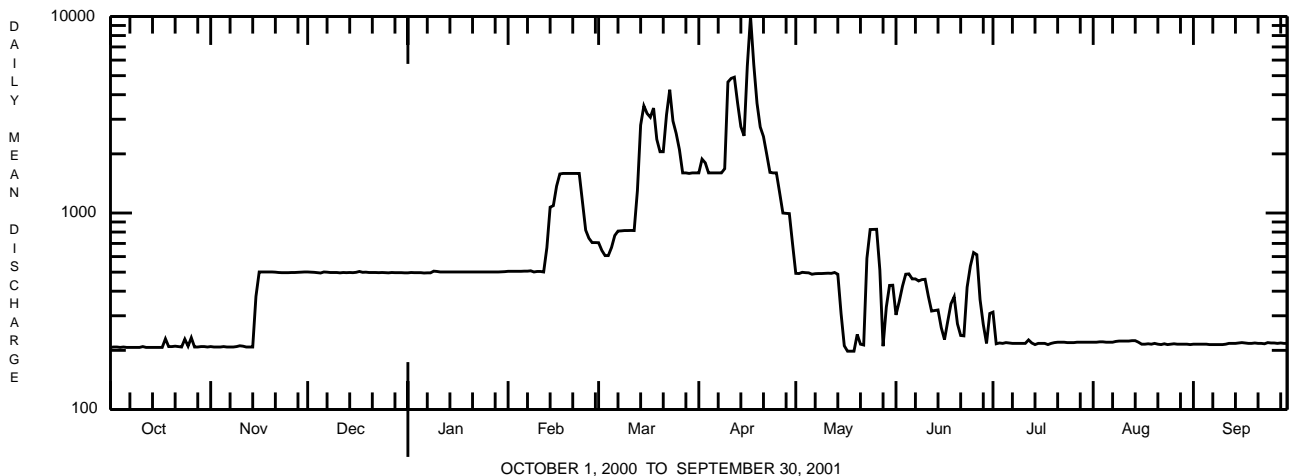
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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.



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001