

## JUNIATA RIVER BASIN

## 01563500 JUNIATA RIVER AT MAPLETON DEPOT, PA

**LOCATION.**--Lat 40°23'32", long 77°56'07", Huntingdon County, Hydrologic Unit 02050304, on right bank 0.2 mi downstream from Scrub Run, and 0.3 mi downstream from bridge on State Highway 655 at Mapleton Depot.

**DRAINAGE AREA.**--2,030 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1937 to current year.

**REVISED RECORDS.**--WDR PA-73-1: 1936(M).

**GAGE.**--Water-stage recorder. Datum of gage is 557.31 ft above sea level.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow regulated since October 1972 by Raystown Dam (station 01563100) 12 mi upstream. 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 38.2 ft, from floodmark, discharge, 165,000 ft<sup>3</sup>/s from rating curve extended above 39,000 ft<sup>3</sup>/s on basis of runoff comparison with upstream and downstream stations.

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	459	621	1420	e1050	2610	1820	3920	1710	1110	845	503	541
2	471	615	1290	e1000	2200	1730	4070	1660	1880	833	485	577
3	449	590	1190	e1000	1950	1660	4010	1580	2080	833	477	488
4	446	555	1110	e980	1750	1640	3690	1520	1830	726	631	463
5	490	548	1120	e980	1600	1810	3560	1510	1660	659	869	448
6	533	522	1120	e980	1600	1760	3700	1380	1510	677	642	445
7	690	529	1100	e970	1730	1910	4200	1380	1370	678	527	441
8	573	569	1050	e970	1800	1830	4140	1300	1340	652	493	433
9	490	584	1100	e970	1790	2140	4090	1340	1270	705	469	428
10	489	1040	991	e960	2470	2210	7510	1320	1170	664	475	425
11	515	1360	1070	e970	2920	2130	7900	1270	1090	629	750	423
12	629	925	1020	986	2360	2050	7730	1240	1000	639	579	425
13	413	782	1060	987	2190	4800	6460	1230	1030	624	528	421
14	471	691	1020	978	2760	7250	5230	1200	952	452	492	435
15	482	773	1090	978	3400	7230	4820	1010	844	527	467	429
16	456	1010	1120	987	4140	6410	11200	828	916	515	454	430
17	460	987	2500	1020	4610	6550	17400	785	1210	517	519	423
18	1810	980	3060	1020	4110	6970	10700	788	1030	517	617	419
19	1880	968	1950	1080	3690	5350	7520	789	979	515	602	417
20	965	957	1650	1270	3590	4660	5950	768	752	512	817	448
21	829	947	e1450	1280	3450	4700	5460	775	722	502	860	542
22	732	934	e1350	1130	3130	7730	4670	835	961	489	596	555
23	677	926	e1300	1050	3060	7990	3990	1480	1920	479	512	466
24	664	917	e1200	1070	2640	6140	3790	1800	2370	474	502	499
25	623	905	e1180	1100	2080	5310	3590	e1570	1520	495	497	861
26	642	1170	e1150	1060	2130	4680	3160	1630	1460	593	491	868
27	596	1900	e1100	1040	1990	3780	2610	3100	1090	687	498	601
28	550	1500	e1100	1040	1890	3620	2540	1920	874	540	516	473
29	594	1330	e1100	1010	---	3520	2420	1470	693	502	523	484
30	555	1410	e1100	1120	---	4180	2090	1330	828	496	491	475
31	525	---	e1050	2690	---	4370	---	1260	---	501	480	---
TOTAL	20158	27545	40111	33726	73640	127930	162120	41778	37461	18477	17362	14783
MEAN	650	918	1294	1088	2630	4127	5404	1348	1249	596	560	493
MAX	1880	1900	3060	2690	4610	7990	17400	3100	2370	845	869	868
MIN	413	522	991	960	1600	1640	2090	768	693	452	454	417

e Estimated.

JUNIATA RIVER BASIN

01563500 JUNIATA RIVER AT MAPLETON DEPOT, PA--Continued

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	1629	2268	2899	2789	3838	5401	5103	3290	2022	1303	913	1093
MAX	7397	7196	8006	8972	8159	14040	15970	7725	5274	6123	2020	6926
(WY)	1977	1998	1973	1996	1984	1994	1993	1978	1989	1989	1979	1996
MIN	494	578	872	481	1269	1612	1781	1309	679	557	528	484
(WY)	1992	1979	1981	1981	1993	1990	1997	1976	1991	1999	1974	1995

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1973 - 2001
ANNUAL TOTAL	697822	615091	
ANNUAL MEAN	1907	1685	2705
HIGHEST ANNUAL MEAN			4119
LOWEST ANNUAL MEAN			1360
HIGHEST DAILY MEAN	15900	Apr 23	17400
LOWEST DAILY MEAN	413	Oct 13	413
ANNUAL SEVEN-DAY MINIMUM	456	Sep 28	425
MAXIMUM PEAK FLOW			20100
MAXIMUM PEAK STAGE			12.98
10 PERCENT EXCEEDS	3910		4030
50 PERCENT EXCEEDS	1120		1020
90 PERCENT EXCEEDS	514		480

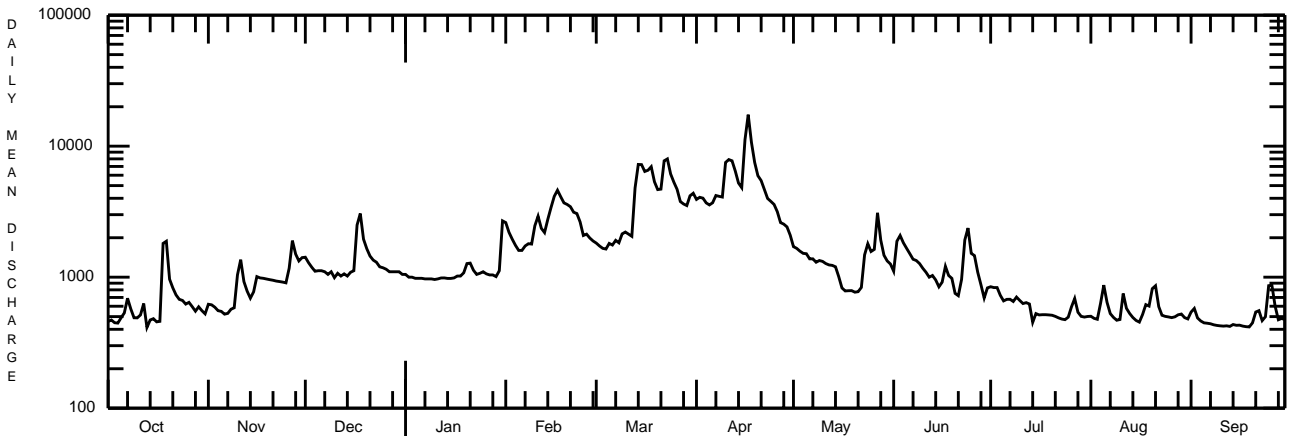
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	925	1473	2124	2500	3303	5542	4766	3324	2215	1058	812	664
MAX	3136	6057	6058	6342	8327	8641	9845	7044	14450	3864	2638	3073
(WY)	1938	1951	1951	1949	1971	1967	1940	1960	1972	1972	1956	1945
MIN	245	377	374	610	826	1763	1697	849	540	317	244	262
(WY)	1964	1958	1966	1940	1963	1969	1968	1941	1965	1966	1966	1964

SUMMARY STATISTICS WATER YEARS 1938 - 1972

ANNUAL MEAN	2387
HIGHEST ANNUAL MEAN	4479
LOWEST ANNUAL MEAN	1329
HIGHEST DAILY MEAN	115000
LOWEST DAILY MEAN	101
ANNUAL SEVEN-DAY MINIMUM	203
MAXIMUM PEAK FLOW	a125000
MAXIMUM PEAK STAGE	33.07
INSTANTANEOUS LOW FLOW	68
ANNUAL RUNOFF (CFSM)	1.18
ANNUAL RUNOFF (INCHES)	15.97
10 PERCENT EXCEEDS	5520
50 PERCENT EXCEEDS	1210
90 PERCENT EXCEEDS	393

a From rating curve extended above 39,000 ft<sup>3</sup>/s on basis of runoff comparison with upstream and downstream stations.



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001