

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 mi².

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.--No estimated daily discharges. Records good. 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 ft³/s from rating curve extended above 39,000 ft³/s on basis of runoff comparison with upstream and downstream stations.

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	599	1230	860	927	2330	1660	3780	2830	763	733	534	504
2	589	1140	936	814	3040	1550	3850	2470	737	651	605	498
3	573	987	920	853	3280	1610	3740	2390	980	639	566	503
4	598	874	863	820	3020	7390	3670	2260	928	620	442	513
5	705	596	938	858	3120	4380	5170	2050	760	595	459	504
6	690	589	928	933	2780	3310	5070	1900	727	558	502	522
7	607	592	871	886	2660	2920	4550	1870	713	555	427	752
8	805	593	895	823	2710	2400	3860	1960	701	555	398	885
9	1480	549	938	910	2550	2260	4910	2150	674	562	450	666
10	1170	613	932	976	2420	2170	16700	2260	643	568	648	607
11	836	659	923	940	2370	2010	15400	1770	635	582	432	522
12	777	714	878	893	2290	1960	13000	1480	646	592	425	495
13	728	635	870	999	2260	1960	10500	1490	646	561	472	486
14	989	612	886	1030	2120	2090	8010	1870	635	524	1520	482
15	1240	704	924	1070	1970	2170	6570	1780	622	521	1110	446
16	1620	916	881	1070	1850	2520	5520	1720	618	515	611	648
17	1590	931	860	1060	1860	3970	5260	1490	751	496	425	877
18	1450	938	876	1030	1840	7120	4540	1220	1150	524	412	792
19	1450	939	942	1320	1790	7300	3840	1220	783	548	463	533
20	1390	867	883	1540	1630	6430	3830	1200	660	520	472	565
21	1260	937	837	1380	1660	6880	4060	1120	653	462	599	564
22	1260	938	896	1460	1530	10600	5030	1040	631	579	575	577
23	1240	935	1020	1950	1330	10400	6630	1170	611	642	540	565
24	1240	894	974	8080	1420	9230	6850	1530	589	665	481	528
25	1240	955	946	7180	1360	6540	6310	1380	585	533	494	526
26	1190	877	944	4040	1350	4400	6030	1210	594	522	800	441
27	1250	923	889	3160	1320	4170	5320	1020	547	525	1730	475
28	1240	851	855	3100	1400	4020	4500	909	668	485	1130	496
29	1230	935	854	4630	---	3930	3580	824	874	476	687	465
30	1230	933	845	3460	---	3860	3200	795	856	480	644	1020
31	1230	---	855	2810	---	3780	---	795	---	481	526	---
TOTAL	33496	24856	27919	61002	59260	134990	183280	49173	21380	17269	19579	17457
MEAN	1081	829	901	1968	2116	4355	6109	1586	713	557	632	582
MAX	1620	1230	1020	8080	3280	10600	16700	2830	1150	733	1730	1020
MIN	573	549	837	814	1320	1550	3200	795	547	462	398	441

JUNIATA RIVER BASIN

01563500 JUNIATA RIVER AT MAPLETON DEPOT, PA--Continued

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	1701	2358	3006	2914	3928	5503	5096	3376	2040	1347	927	1137
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 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1973 - 1999	
ANNUAL TOTAL	1199514		649661			
ANNUAL MEAN	3286		1780		2770	
HIGHEST ANNUAL MEAN					4119	
LOWEST ANNUAL MEAN					1360	
HIGHEST DAILY MEAN	19500	Jan 9	16700	Apr 10	37300	Jan 20 1996
LOWEST DAILY MEAN	494	Sep 21	398	Aug 8	398	Aug 8 1999
ANNUAL SEVEN-DAY MINIMUM	599	Nov 5	463	Aug 3	423	Jan 11 1981
INSTANTANEOUS PEAK FLOW			20400	Apr 10	a57600	Jan 20 1996
INSTANTANEOUS PEAK STAGE			13.05	Apr 10	22.47	Jan 20 1996
10 PERCENT EXCEEDS	9320		4050		6170	
50 PERCENT EXCEEDS	1380		933		1600	
90 PERCENT EXCEEDS	654		521		569	

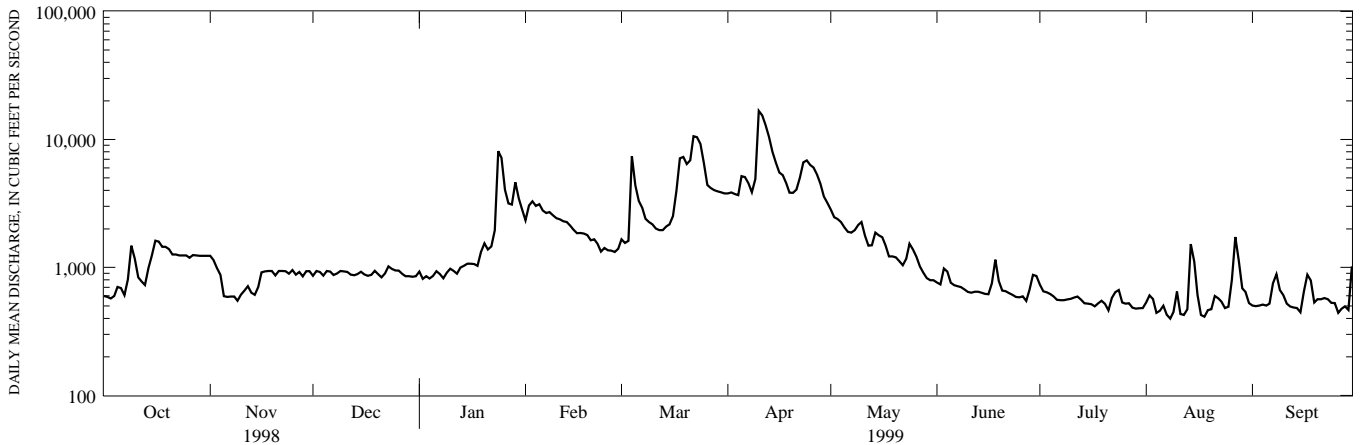
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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	1972
LOWEST ANNUAL MEAN	1329	1969
HIGHEST DAILY MEAN	115000	Jun 23 1972
LOWEST DAILY MEAN	101	Aug 21 1966
ANNUAL SEVEN-DAY MINIMUM	203	Sep 7 1964
INSTANTANEOUS PEAK FLOW	a125000	Jun 23 1972
INSTANTANEOUS PEAK STAGE	33.07	Jun 23 1972
INSTANTANEOUS LOW FLOW	68	Sep 13 1964
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 ft³/s on basis of runoff comparison with upstream and downstream stations.



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