

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.--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 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	513	1640	1270	e925	6170	2410	3150	3640	1130	678	491
2	811	558	1500	1260	e915	5870	2210	2680	3330	961	989	506
3	581	1660	1500	1250	e900	4470	2210	2540	2650	935	1100	516
4	660	1230	1340	1320	e900	3890	3230	2420	2150	889	1480	519
5	689	888	1370	1370	e890	3680	3890	2310	2020	957	1320	486
6	657	783	1330	1240	e870	3480	3550	2170	3080	809	1290	477
7	620	690	1290	1160	e860	3140	3300	2100	3890	728	2570	444
8	519	690	1240	1150	e840	2530	3210	1870	3740	756	2290	451
9	501	607	1200	1140	e825	2260	3850	1580	2710	684	1710	457
10	776	671	1190	1180	e810	2150	3560	1580	2290	711	1190	477
11	1170	581	1220	1390	e800	2170	3480	1540	1760	738	1040	487
12	898	660	1200	e1250	e800	3090	3330	1500	1470	726	964	480
13	707	556	1170	e1180	1330	3220	2970	1640	1770	672	755	696
14	787	557	2060	e1100	2510	3270	2760	1650	1960	655	632	653
15	922	753	4290	e1020	4600	3170	2760	1460	2310	659	600	583
16	771	891	2740	e1000	3030	3110	2680	1100	4220	774	571	537
17	652	903	2250	e1000	2710	3570	2800	980	3500	1050	586	472
18	685	910	1940	989	2340	3430	4600	903	3230	1050	546	486
19	604	899	1790	1070	2390	3000	5560	1410	2530	1020	520	461
20	610	873	1730	1190	2940	2610	4840	2820	1740	937	526	470
21	592	909	2060	1150	3350	2910	6120	2520	1390	686	530	444
22	565	937	1790	1150	3580	6360	12100	2860	2260	575	517	442
23	589	912	1630	1030	3770	5970	15900	3950	1850	551	523	447
24	561	916	1570	e1070	4110	6320	13300	8560	1570	568	509	496
25	571	985	1360	e950	4630	6010	10300	7760	1450	587	621	581
26	530	2270	1450	e1050	5520	5820	7190	4900	1400	531	595	720
27	553	5900	1470	1080	5560	5550	5240	3680	1320	520	511	640
28	510	2930	1390	1030	7640	4550	4480	3460	1380	748	510	482
29	461	2160	1370	957	6650	3490	3840	5260	1290	1670	548	435
30	513	1850	1340	e950	---	3230	3600	5710	1250	1380	519	450
31	513	---	1370	e930	---	2620	---	4240	---	1100	521	---
TOTAL	20788	35642	50790	34876	76995	121110	149270	90303	69150	25757	27261	15286
MEAN	671	1188	1638	1125	2655	3907	4976	2913	2305	831	879	510
MAX	1210	5900	4290	1390	7640	6360	15900	8560	4220	1670	2570	720
MIN	461	513	1170	930	800	2150	2210	903	1250	520	509	435

e Estimated.

JUNIATA RIVER BASIN

01563500 JUNIATA RIVER AT MAPLETON DEPOT, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1664	2317	2957	2850	3881	5446	5092	3360	2050	1329	925	1114
MAX (WY)	7397	7196	8006	8972	8159	14040	15970	7725	5274	6123	2020	6926
MIN (WY)	1977	1998	1973	1996	1984	1994	1993	1978	1989	1989	1979	1996
MIN (WY)	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 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1973 - 2000
ANNUAL TOTAL	670610	717228	
ANNUAL MEAN	1837	1960	2741
HIGHEST ANNUAL MEAN			4119
LOWEST ANNUAL MEAN			1360
HIGHEST DAILY MEAN	16700	Apr 10	15900
LOWEST DAILY MEAN	398	Aug 8	435
ANNUAL SEVEN-DAY MINIMUM	463	Aug 3	460
INSTANTANEOUS PEAK FLOW			16600
INSTANTANEOUS PEAK STAGE			11.82
10 PERCENT EXCEEDS	4220		4140
50 PERCENT EXCEEDS	980		1240
90 PERCENT EXCEEDS	512		520

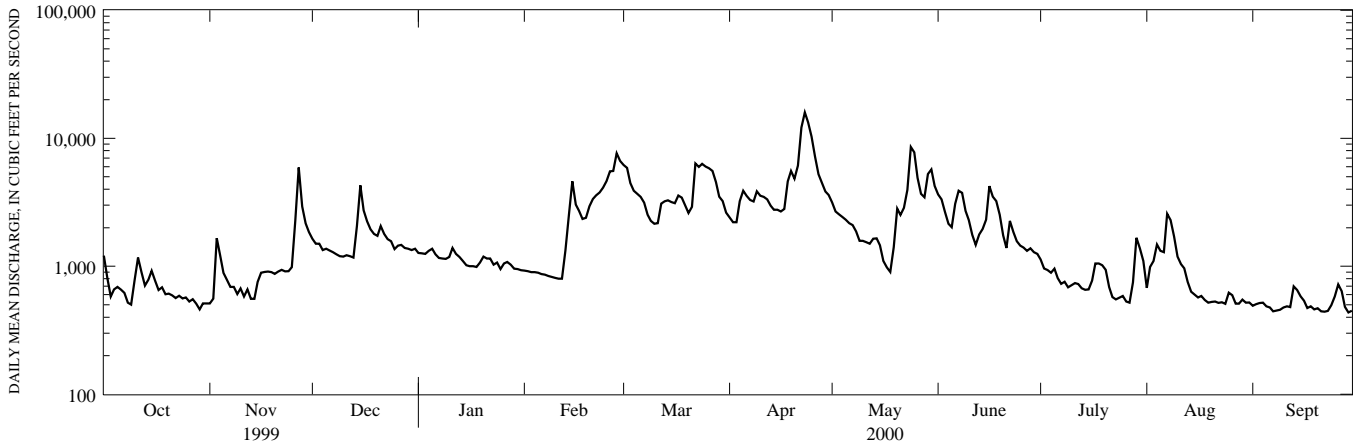
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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 (WY)	3136	6057	6058	6342	8327	8641	9845	7044	14450	3864	2638	3073
MIN (WY)	1938	1951	1951	1949	1971	1967	1940	1960	1972	1972	1956	1945
MIN (WY)	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
INSTANTANEOUS PEAK FLOW	125000
INSTANTANEOUS 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 ft³/s on basis of runoff comparison with upstream and downstream stations.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000