

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 National Geodetic Vertical Datum of 1929.

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	458	426	1500	e871	1360	725	2670	5360	3050	864	502	459
2	449	421	1270	e889	1400	711	2290	6070	2680	820	496	460
3	441	421	1060	e871	1330	1030	2010	5430	2110	784	494	461
4	439	424	978	e871	1300	1440	1810	4170	1550	770	490	462
5	444	427	952	e880	1240	1060	1660	3860	1610	709	493	451
6	433	416	918	e917	1220	1030	1560	3360	2410	676	524	441
7	407	414	897	933	1220	1030	1480	2930	7110	668	504	433
8	398	415	901	943	1190	970	1400	2880	4780	660	488	432
9	398	414	1020	951	1160	929	1360	5840	3110	659	460	428
10	401	408	1170	973	1140	906	1400	9440	2160	723	462	425
11	409	412	1030	1320	2120	891	1250	7550	1960	766	460	472
12	413	406	965	1410	2170	835	1110	4450	1840	599	455	643
13	416	405	953	1300	1820	822	1130	8110	1770	613	455	391
14	428	409	999	1200	1620	809	1490	11100	2150	603	479	374
15	643	505	1080	1140	1470	798	2730	8450	4710	590	494	381
16	789	795	1080	1110	1450	796	2600	6270	3950	589	448	375
17	520	786	1040	1050	1410	918	2460	5130	2910	565	461	377
18	526	785	1660	992	1330	1060	2260	11300	2250	556	460	439
19	499	791	1790	977	1250	1700	3030	12600	2020	675	457	431
20	470	784	1490	981	1220	2580	2660	9850	1760	697	460	431
21	454	780	1330	985	1220	5580	2340	7010	1490	641	472	439
22	442	778	1250	986	1210	3550	2630	5540	1350	580	459	472
23	434	778	1170	985	1110	2670	3000	4630	1300	590	471	730
24	449	775	1150	1070	943	2220	3280	3960	1200	615	607	796
25	470	868	1140	1410	782	1930	2870	3640	1150	572	691	678
26	456	1430	1080	1430	737	3250	2450	3520	1040	576	553	430
27	432	1120	985	1280	789	11300	2300	2760	979	641	497	574
28	428	941	e953	1250	790	5480	2860	1970	1240	631	476	1460
29	424	970	e917	1220	---	3950	4640	2290	1070	582	475	883
30	425	1130	e899	1230	---	3160	4190	2290	945	536	470	691
31	423	---	e862	1260	---	2610	---	2760	---	515	463	---
TOTAL	14218	19834	34489	33685	36001	66740	68920	174520	67654	20065	15176	15919
MEAN	459	661	1113	1087	1286	2153	2297	5630	2255	647	490	531
MAX	789	1430	1790	1430	2170	11300	4640	12600	7110	864	691	1460
MIN	398	405	862	871	737	711	1110	1970	945	515	448	374

e Estimated.

JUNIATA RIVER BASIN

01563500 JUNIATA RIVER AT MAPLETON DEPOT, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1590	2215	2840	2733	3754	5292	5009	3368	2030	1282	899	1074
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	459	578	872	481	1269	1612	1781	1309	679	557	490	484
(WY)	2002	1979	1981	1981	1993	1990	1997	1976	1991	1999	2002	1995

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1973 - 2002
ANNUAL TOTAL	595818	567221	
ANNUAL MEAN	1632	1554	2667
HIGHEST ANNUAL MEAN			4119
LOWEST ANNUAL MEAN			1360
HIGHEST DAILY MEAN	17400	Apr 17	12600
LOWEST DAILY MEAN	398	Oct 8,9	374
ANNUAL SEVEN-DAY MINIMUM	406	Oct 7	395
MAXIMUM PEAK FLOW			15500
MAXIMUM PEAK STAGE			11.45
10 PERCENT EXCEEDS	4030		3260
50 PERCENT EXCEEDS	978		953
90 PERCENT EXCEEDS	431		432

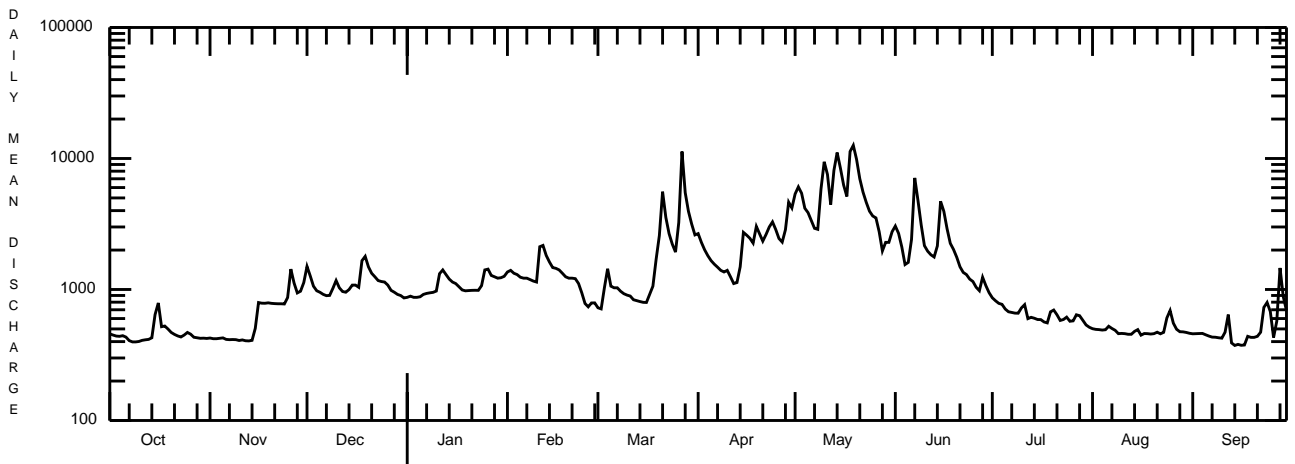
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1972, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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 ft³/s on basis of runoff comparison with upstream and downstream stations.



OCTOBER 1, 2001 TO SEPTEMBER 30, 2002