



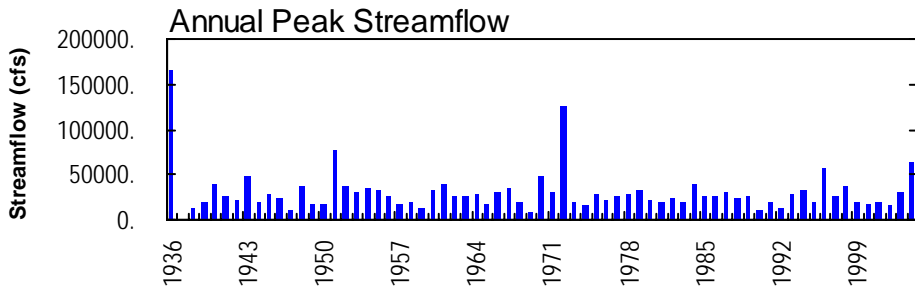
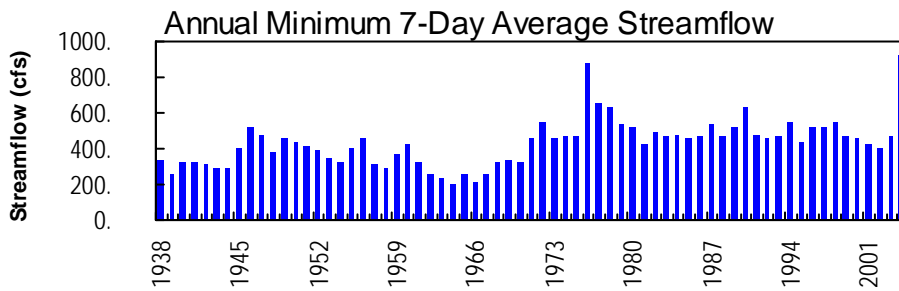
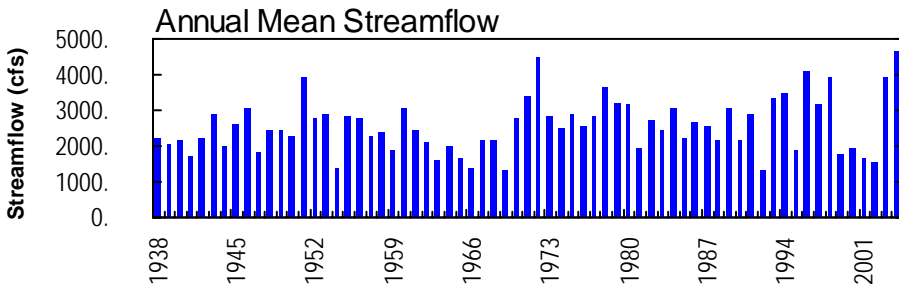
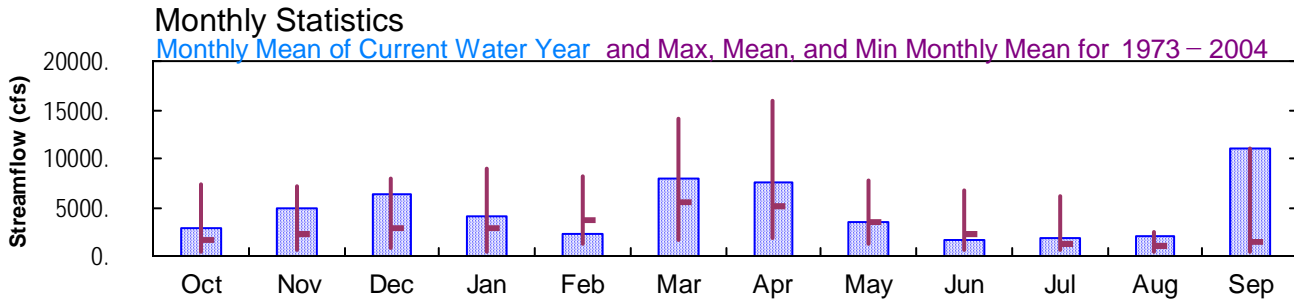
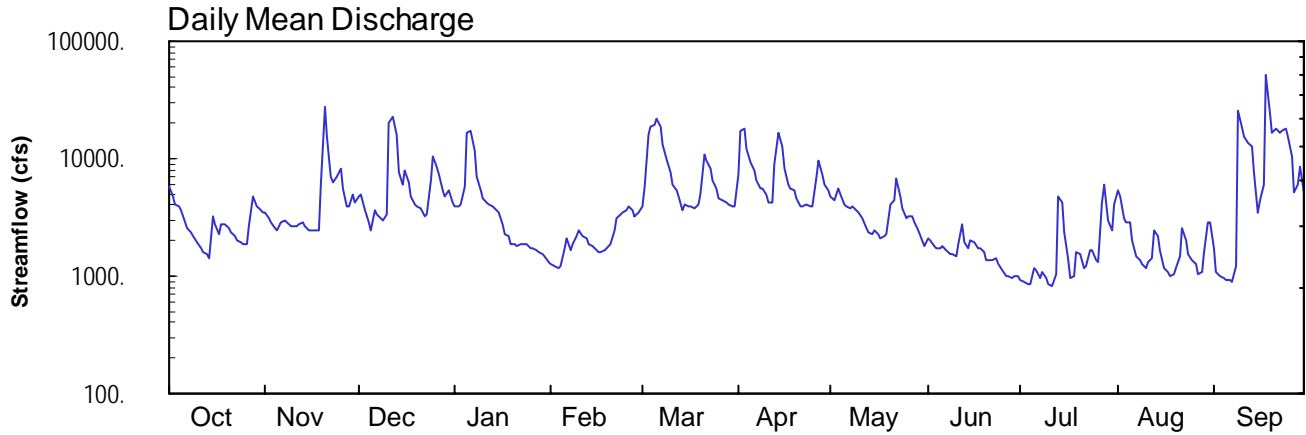
2004 Water Year
JUNIATA RIVER BASIN

01563500 Juniata River at Mapleton Depot, PA

Latitude: 40° 23 ' 32"
Huntingdon County

Longitude: 077° 56 ' 07"
Datum: 557.31 feet

Hydrologic Unit Code: 02050304
Drainage Area: 2030. mi²



01563500–Juniata River at Mapleton Depot

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 fair 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5840	3420	4820	3920	e1250	e3950	7350	4810	2110	923	5320	1730
2	4780	3130	5020	3840	e1200	e5750	17400	4370	2050	893	4810	1090
3	4110	2830	3580	4010	e1150	16100	18100	5670	1810	857	3050	1000
4	3910	2570	2910	5780	e1200	18600	12100	4980	1710	852	2880	957
5	3680	2420	2460	16900	e1700	19600	9090	4050	1700	1180	2860	939
6	2890	2870	3610	17500	e2100	21900	7930	3900	1780	1140	2050	914
7	2590	3040	3400	11600	e1650	18500	6420	3760	1650	970	1480	887
8	2370	2830	3090	7080	e1900	13400	5520	3950	1570	1090	1350	1210
9	2150	2700	3030	5340	e2200	9820	5650	3630	1510	956	1280	25400
10	1950	2640	3340	4630	e2500	7510	4930	3510	1490	859	1190	18500
11	1730	2630	19800	e4200	e2200	5960	4220	3140	1870	824	1320	15600
12	1630	2750	22400	e4100	e2100	5400	4190	2530	2750	1020	1440	13700
13	1510	2840	16100	e3900	e1900	4780	9040	2350	1970	4830	2460	12500
14	1420	2660	7660	e3700	e1800	3640	16700	2290	1760	4210	2220	7610
15	3230	2470	5970	e3500	e1700	4060	12500	2430	2010	2320	1680	3510
16	2800	2480	7920	e2800	e1600	3850	8090	2250	1950	1410	1180	4410
17	2310	2480	6150	e2250	e1600	3910	6040	2130	1710	968	1100	6070
18	2790	2410	4690	e2150	e1650	3790	5620	2160	1710	1010	983	52500
19	2770	6110	4110	e1900	e1700	4140	5310	2270	1590	1590	1040	24500
20	2550	27400	3900	e1850	e1900	4970	4580	4130	1360	1550	1170	16600
21	2350	15200	3710	e1800	e2500	10900	3970	4380	1360	1180	1490	17900
22	2210	7160	3260	e1850	e3150	9600	3860	6790	1390	1230	2570	16800
23	2040	6380	3410	e1900	e3300	8260	4000	4740	1400	1660	1990	17100
24	1960	7150	6400	e1850	e3500	6540	3920	3740	1280	1680	1550	17700
25	1890	8170	10400	e1750	e3600	5470	3850	3100	1140	1390	1380	15600
26	1840	5540	8620	e1700	e3850	4670	7030	3230	1000	1290	1240	10300
27	2680	3860	7370	e1650	e3650	4340	9630	3280	982	4220	1030	5180
28	4690	3870	5270	e1600	e3200	4220	7270	2830	954	6050	1060	6060
29	3980	5020	4790	e1550	e3450	4020	5950	2410	1000	2970	1580	8490
30	3790	4270	5290	e1500	---	3890	5310	2040	986	2500	2850	5160
31	3550	---	4290	e1300	---	3990	---	1770	---	4050	2850	---
TOTAL	87990	149300	196770	129400	65200	245530	225570	106620	47552	57672	60453	329917
MEAN	2838	4977	6347	4174	2248	7920	7519	3439	1585	1860	1950	11000
MAX	5840	27400	22400	17500	3850	21900	18100	6790	2750	6050	5320	52500
MIN	1420	2410	2460	1300	1150	3640	3850	1770	954	824	983	887

e Estimated.

JUNIATA RIVER BASIN

01563500 JUNIATA RIVER AT MAPLETON DEPOT, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2004, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1608	2320	2953	2836	3655	5450	5081	3449	2163	1298	981	1503
MAX	7397	7196	8006	8972	8159	14040	15970	7725	6743	6123	2488	11000
(WY)	1977	1998	1973	1996	1984	1994	1993	1978	2003	1989	2003	2004
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 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1973 - 2004

ANNUAL TOTAL	1664002	1701974		
ANNUAL MEAN	4559	4650	2768	
HIGHEST ANNUAL MEAN			4650	2004
LOWEST ANNUAL MEAN			1360	1992
HIGHEST DAILY MEAN	27400	Nov 20	52500	Sep 18 2004
LOWEST DAILY MEAN	699	Jul 31	824	Jul 11 2002
ANNUAL SEVEN-DAY MINIMUM	782	Jul 25	924	Jun 28 2002
MAXIMUM PEAK FLOW			a64000	Sep 18 2004
MAXIMUM PEAK STAGE			23.76	Sep 18 2004
10 PERCENT EXCEEDS	8840		9690	6090
50 PERCENT EXCEEDS	3330		3100	1590
90 PERCENT EXCEEDS	1280		1200	562

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
MAXIMUM PEAK FLOW	a125000	Jun 23 1972
MAXIMUM 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.