



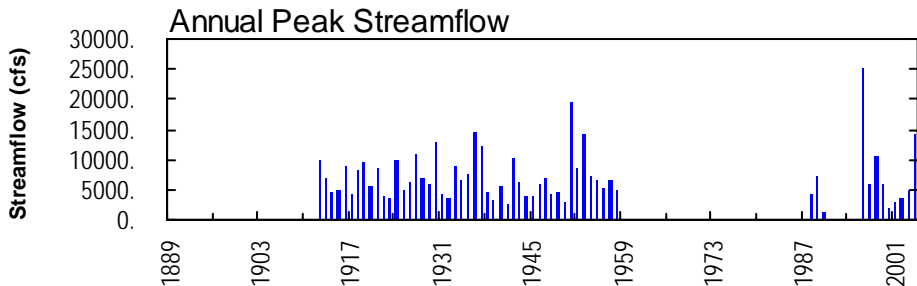
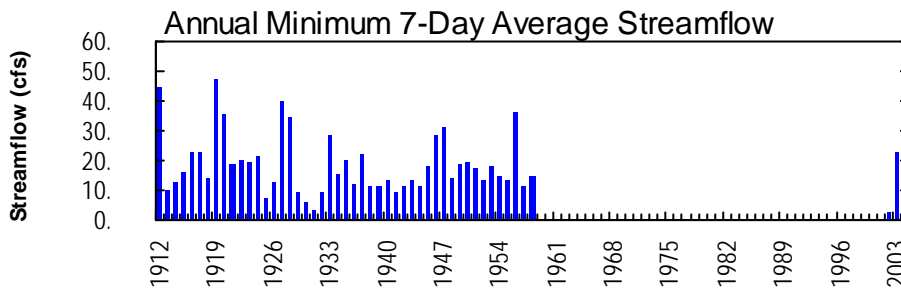
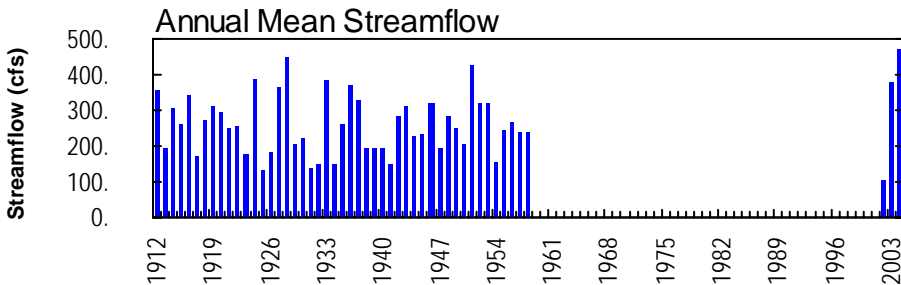
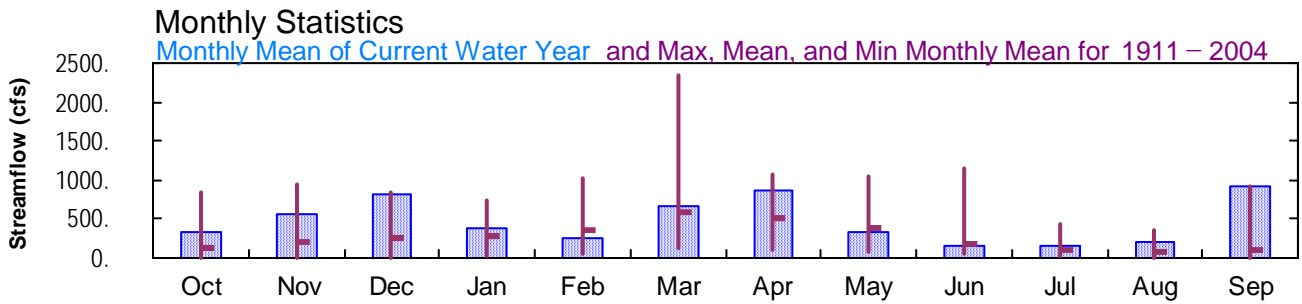
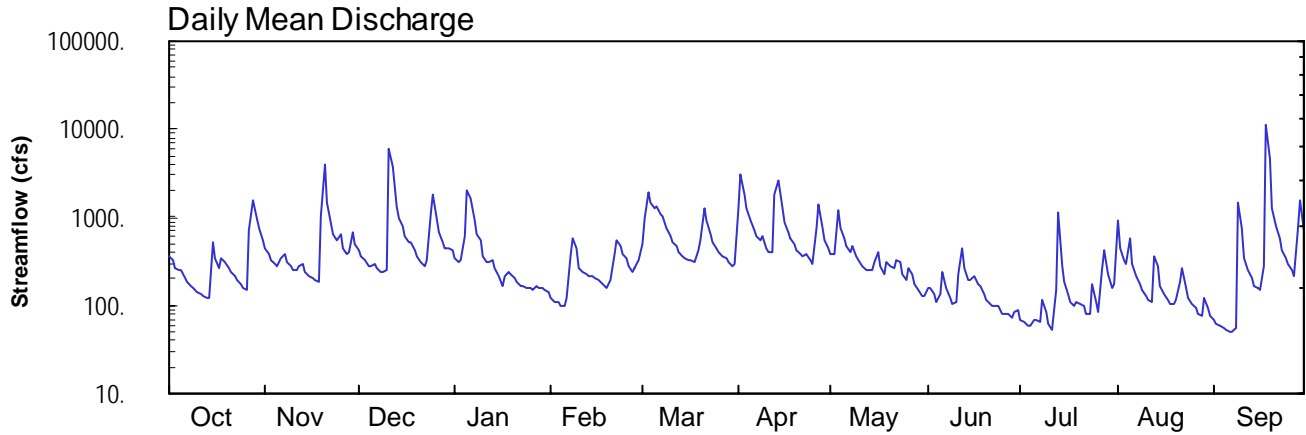
# 2004 Water Year JUNIATA RIVER BASIN

## 01566000 Tuscarora Creek near Port Royal, PA

Latitude: 40° 30 ' 55"  
Juniata County

Longitude: 077° 25 ' 10"  
Datum: 420.47 feet

Hydrologic Unit Code: 02050304  
Drainage Area: 214. mi<sup>2</sup>



**JUNIATA RIVER BASIN**

**01566000 TUSCARORA CREEK NEAR PORT ROYAL, PA**

**LOCATION.**--Lat 40°30'55", long 77°25'10", Juniata County, Hydrologic Unit 02050304, at single-span bridge on SR 3008, 2.0 mi southwest of Port Royal, and 3.5 mi upstream from mouth.

**DRAINAGE AREA.**--214 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 2001 to current year. October 1910 to September 1958; October 1981 to September 1987, low-flow partial record; October 1987 to September 1990, crest-stage partial-record; October 1991 to September 1995, miscellaneous measurements; October 1995 to September 2001, crest-stage partial-record and miscellaneous measurements.

**GAGE.**--Water-stage recorder. Datum of gage is 420.47 ft above National Geodetic Vertical Datum of 1929.

**REMARKS.**--Records fair except those for estimated daily discharges, which are poor. Satellite telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Maximum stage known prior to 1911, 20.5 ft, June 1, 1889 (backwater from Juniata River). Flood of June 23, 1972, reached a stage of 25.10 ft, discharge not determined.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 3,700 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Nov. 20	0800	5,220	11.73	Sept. 18	1645	*14,200	*18.49
Dec. 11	2215	8,920	15.16				

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	369	446	434	338	e120	e495	1250	388	161	70	939	68
2	332	382	371	313	e110	984	2990	383	161	64	456	62
3	267	330	320	320	e110	1940	1780	1220	133	60	320	59
4	246	294	286	610	e100	1500	1260	749	111	58	293	55
5	248	281	283	2020	e100	1290	932	571	136	70	588	53
6	209	353	300	1660	e120	1360	704	473	236	67	290	51
7	182	373	270	931	391	1100	596	404	156	64	217	51
8	167	318	245	652	e590	1010	544	479	124	113	177	56
9	156	278	242	536	e440	757	597	359	107	85	148	1460
10	145	256	246	e370	e270	615	445	321	110	62	130	738
11	136	248	5890	e310	e240	520	393	285	228	54	115	353
12	128	274	3700	e315	e225	473	394	256	444	153	107	250
13	121	295	1360	e320	e210	406	1830	249	262	1120	361	199
14	121	234	984	e270	e210	356	2560	252	193	275	273	165
15	534	217	809	e220	e200	343	1360	313	199	184	165	160
16	342	205	623	e170	e190	323	893	395	220	133	132	148
17	259	199	534	e220	e180	325	692	274	176	111	113	283
18	352	187	508	e240	e170	311	570	229	165	99	104	11300
19	304	1050	414	e230	e160	424	483	318	138	107	103	4550
20	262	4030	353	e200	e190	561	418	285	116	103	115	1260
21	233	1450	308	e180	e380	1240	375	268	104	97	187	810
22	216	898	279	e170	e540	911	367	335	98	79	266	570
23	195	656	332	e170	e460	636	377	306	100	80	159	426
24	173	550	1120	e160	e390	514	331	228	98	173	121	342
25	156	627	1810	e160	e340	445	288	191	82	110	104	288
26	147	448	962	e150	e280	400	755	267	78	85	93	251
27	703	387	677	e170	e240	366	1420	226	79	251	82	218
28	1520	400	531	e160	e260	342	779	174	72	424	77	730
29	957	677	447	e160	e330	306	553	149	85	229	121	1530
30	744	494	455	e150	---	281	450	130	88	156	95	711
31	539	---	413	e140	---	293	---	127	---	179	76	---
TOTAL	10463	16837	25506	12015	7546	20827	26386	10604	4460	4915	6527	27197
MEAN	338	561	823	388	260	672	880	342	149	159	211	907
MAX	1520	4030	5890	2020	590	1940	2990	1220	444	1120	939	11300
MIN	121	187	242	140	100	281	288	127	72	54	76	51
CFM	1.58	2.62	3.84	1.81	1.22	3.14	4.11	1.60	0.69	0.74	0.98	4.24
IN.	1.82	2.93	4.43	2.09	1.31	3.62	4.59	1.84	0.78	0.85	1.13	4.73

**STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF DAILY RECORD, BY WATER YEAR (WY)**

MEAN	128	215	253	292	352	582	500	375	176	103	83.4	102
MAX	832	934	829	746	1016	2347	1071	1052	1141	438	363	907
(WY)	1928	1951	1951	1915	1915	1936	1937	1919	1916	1928	1933	2004
MIN	7.51	10.1	10.8	21.1	44.3	135	107	64.4	46.3	26.0	8.15	6.53
(WY)	1931	1931	1931	1931	2002	1931	1925	1941	1957	2002	1930	1930

e Estimated.

**JUNIATA RIVER BASIN**

**01566000 TUSCARORA CREEK NEAR PORT ROYAL, PA--Continued**

<b>SUMMARY STATISTICS</b>	<b>FOR 2003 CALENDAR YEAR</b>		<b>FOR 2004 WATER YEAR</b>		<b>FOR PERIOD OF DAILY RECORD</b>	
ANNUAL TOTAL	165840		173283			
ANNUAL MEAN	454		473		262	
HIGHEST ANNUAL MEAN					473	
LOWEST ANNUAL MEAN					106	
HIGHEST DAILY MEAN	5890	Dec 11	11300	Sep 18	12000	Mar 18 1936
LOWEST DAILY MEAN	44	Jul 31	51	Sep 6,7	2.2	Sep 29 1930
ANNUAL SEVEN-DAY MINIMUM	55	Jul 26	55	Sep 2	a2.8	Sep 12 2002
MAXIMUM PEAK FLOW			14200	Sep 18	bc25000	Sep 7 1996
MAXIMUM PEAK STAGE			18.49	Sep 18	d21.60	Mar 19 1936
ANNUAL RUNOFF (CFSM)	2.12		2.21		1.23	
ANNUAL RUNOFF (INCHES)	28.83		30.12		16.66	
10 PERCENT EXCEEDS	1000		958		600	
50 PERCENT EXCEEDS	275		280		118	
90 PERCENT EXCEEDS	72		100		24	

- a** Computed using estimated daily discharges.
- b** Gage height 21.27 ft.
- c** From rating curve extended above 7,000 ft<sup>3</sup>/s.
- d** From floodmark, backwater from Juniata River, discharge 14,400 ft<sup>3</sup>/s.