

JUNIATA RIVER BASIN

01564500 AUGHWICK CREEK NEAR THREE SPRINGS, PA

LOCATION.--Lat 40°12'45", long 77°55'32", Huntingdon County, Hydrologic Unit 02050304, on right bank 10 ft downstream from bridge on State Highway 994, 300 ft upstream from East Broad Top Railroad bridge, 350 ft upstream from Three Springs Creek, and 3.5 mi northeast of Three Springs. Records include flow of Three Springs Creek.

DRAINAGE AREA.--205 mi², includes that of Three Springs Creek.

PERIOD OF RECORD.--June 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 618.65 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1, 1889, reached a stage of about 19.3 ft, discharge, about 24,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 2,100 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 2	0630	5,310	10.70	June 7	2145	3,270	9.45
Mar. 21	0400	3,670	9.93	Sept. 23	1315	3,250	9.43
May 16	1745	2,630	8.57	Sept. 28	0815	2,610	8.55
June 4	0845	*7,300	*13.27				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	423	137	988	e80	e370	401	138	527	70	64	57
2	18	262	115	3510	e100	e300	453	257	385	64	112	63
3	15	183	103	1590	e90	e280	422	201	793	63	218	145
4	13	138	e70	1070	e150	e250	389	176	5040	59	203	730
5	12	115	e75	786	e240	e280	701	187	1830	53	130	354
6	12	251	e80	638	e130	e850	772	263	1090	62	87	207
7	11	254	e75	525	e110	e1000	669	239	1670	146	98	146
8	9.7	192	e85	473	e100	e680	701	262	1970	93	191	115
9	9.2	159	e80	567	e85	e980	856	346	1260	67	241	96
10	9.4	135	e70	650	e80	1010	1040	728	833	66	519	82
11	33	127	e100	531	e70	663	991	1080	625	167	459	71
12	199	161	e375	e400	e65	547	963	757	496	127	300	62
13	146	489	e600	e340	e60	903	773	577	489	78	181	61
14	86	353	e1000	e280	e60	1280	610	424	388	63	129	81
15	57	260	1220	e230	e55	e1020	504	331	306	53	99	81
16	154	209	912	e170	e50	1430	435	1450	240	49	81	82
17	612	599	615	e170	e50	1760	371	1530	204	45	130	84
18	243	881	435	e160	e50	1600	315	1190	235	e41	139	64
19	135	592	342	e150	e100	e1200	278	977	205	57	89	907
20	96	426	411	e150	e120	1330	249	752	204	e44	69	1040
21	72	320	437	e140	e100	2660	236	642	283	e36	60	539
22	57	337	364	e140	e180	1400	344	515	241	36	52	357
23	47	315	330	e130	e1000	984	262	439	201	38	47	2060
24	41	244	281	e110	e1400	746	211	506	164	54	42	1110
25	38	211	277	e100	e900	605	186	473	139	53	37	645
26	237	186	253	e100	e600	524	190	387	121	38	54	464
27	277	181	208	e90	e520	500	188	387	107	32	85	392
28	164	166	182	e80	e440	395	160	551	96	30	102	1750
29	128	143	176	e80	---	364	152	492	86	28	74	996
30	451	146	165	e75	---	406	155	416	77	27	56	621
31	688	---	169	e75	---	416	---	390	---	25	57	---
TOTAL	4094.3	8458	9742	14498	6985	26733	13977	17063	20305	1864	4205	13462
MEAN	132	282	314	468	249	862	466	550	677	60.1	136	449
MAX	688	881	1220	3510	1400	2660	1040	1530	5040	167	519	2060
MIN	9.2	115	70	75	50	250	152	138	77	25	37	57
CFM	0.64	1.38	1.53	2.28	1.22	4.21	2.27	2.68	3.30	0.29	0.66	2.19
IN.	0.74	1.53	1.77	2.63	1.27	4.85	2.54	3.10	3.68	0.34	0.76	2.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2003, BY WATER YEAR (WY)

MEAN	108	188	260	256	376	572	472	317	191	81.3	61.6	68.7
MAX	656	946	890	1062	1399	1612	1296	798	1985	848	355	978
(WY)	1977	1951	1973	1996	1984	1994	1993	1960	1972	1989	1967	1996
MIN	6.59	12.3	12.6	14.2	29.5	93.0	103	55.0	25.0	8.40	3.25	5.08
(WY)	1964	1999	1999	1981	2002	1990	1971	1941	1991	1966	1966	1964

e Estimated.

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01564500 AUGHWICK CREEK NEAR THREE SPRINGS, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1938 - 2003	
ANNUAL TOTAL	54952.1		141386.3			
ANNUAL MEAN	151		387		245	
HIGHEST ANNUAL MEAN					486	1972
LOWEST ANNUAL MEAN					93.9	2002
HIGHEST DAILY MEAN	2010	May 18	5040	Jun 4	18700	Jun 23 1972
LOWEST DAILY MEAN	2.7	Sep 14	9.2	Oct 9	0.80	Sep 3 1966
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 9	11	Oct 4	1.2	Aug 29 1966
MAXIMUM PEAK FLOW			a7300	Jun 4	a32600	Jan 19 1996
MAXIMUM PEAK STAGE			13.27	Jun 4	20.85	Jan 19 1996
INSTANTANEOUS LOW FLOW			8.8	Oct 9,10	0.80	Sep 2 1966b
ANNUAL RUNOFF (CFSM)	0.73		1.89		1.20	
ANNUAL RUNOFF (INCHES)	9.97		25.66		16.27	
10 PERCENT EXCEEDS	402		986		586	
50 PERCENT EXCEEDS	57		205		99	
90 PERCENT EXCEEDS	8.4		53		14	

a From rating curve extended above 7,100 ft³/s on basis of contracted-opening measurement at gage height 18.04 ft.

b Also Sept. 3, 4, 11-13, 1966.

